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Vol. I

APRIL, 1906

No. 2

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OF THE
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COLLEGE OF MEDICINE

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CONTENTS

I ORIGINAL CONTRIBUTIONS

ON FOREIGN BODIES IN THE ORBIT

BY H. GIFFORD

A LIST OF SERIALS IN MEDICINE AND ALLIED SCIENCES
AVAILABLE FOR THE PHYSICIAN AND INVESTIGATOR IN
THE LIBRARIES OF THE UNIVERSITY OF NEBRASKA AND
OF THE NEBRASKA STATE MEDICAL SOCIETY

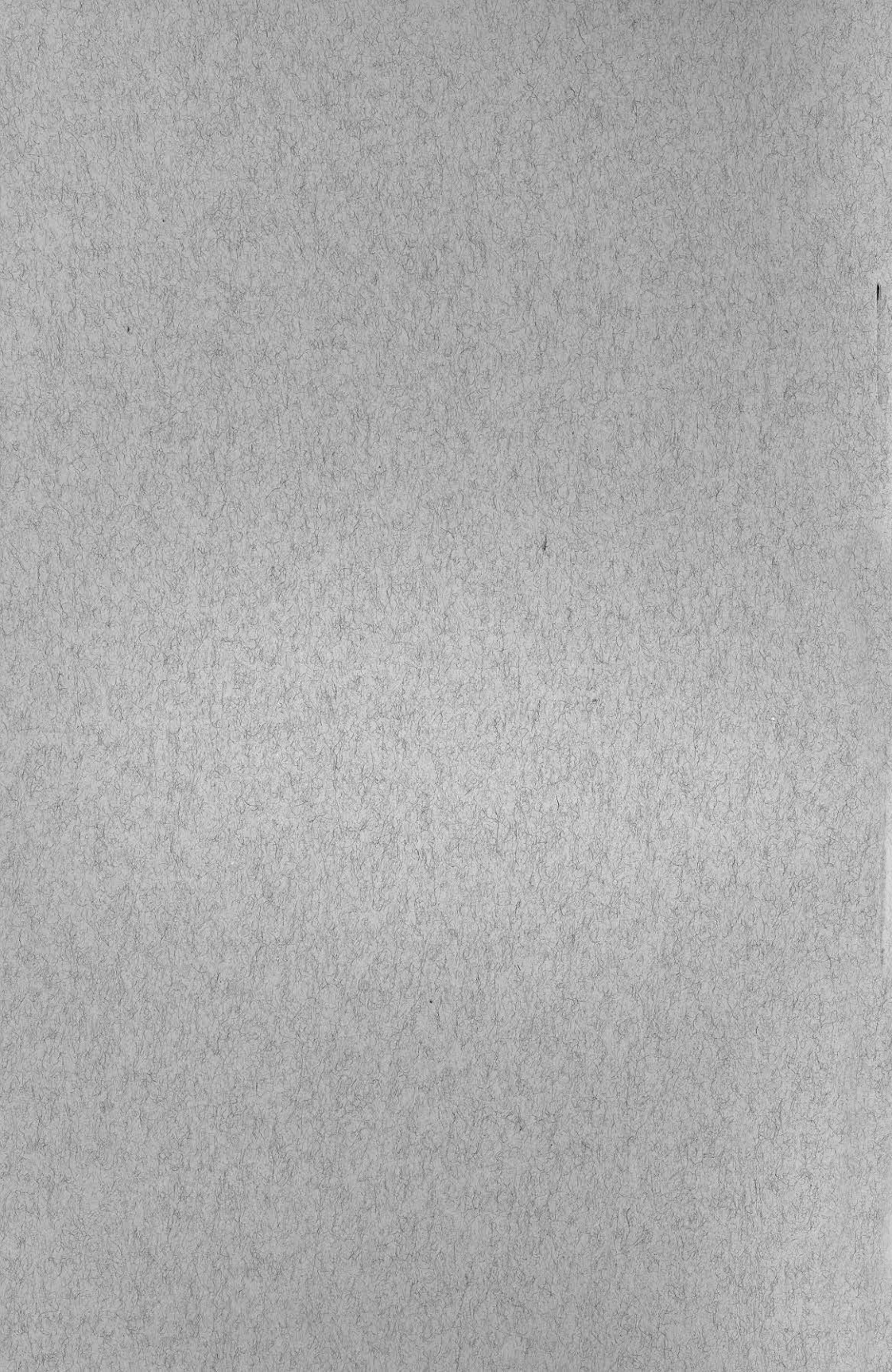
BY HENRY B. WARD AND H. WINNETT ORR

II EDITORIAL

III COLLEGE NOTES

LINCOLN, NEBRASKA

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MATTER, AS UNIVERSITY BULLETIN SERIES XI, NO. 12



THE BULLETIN

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COLLEGE OF MEDICINE

VOL. I

APRIL 1906

No. 2

On Foreign Bodies in the Orbit

BY H. GIFFORD, OMAHA, NEB.

The orbit is a most accommodating cavity. The large amount of fatty tissue which it contains allows foreign bodies to remain within it for incredibly long periods without causing any serious symptoms; and medical history has numerous cases of all sorts of absurdly large foreign bodies, such as umbrella points, pipe-stems, hat pegs, and foil points remaining unsuspected in the orbit for months and years. The especial susceptibility of the orbit to this kind of accident is due, in addition to the large amount of fat already mentioned, to the fact that the eyeball is readily pushed aside by these hard bodies, which break off upon striking the bony walls, while the external wound in the conjunctiva heals with perfect readiness. One would think that these large objects would be missed and that this would lead to the orbit being searched for them, but as Praun,¹ in his exhaustive work on the injuries of the eye points out, many of these injuries are received during fights, after which a man who has lost a knife blade, for instance, is seldom anxious to find and claim it. Moreover, whatever the occasion of the injury, the patient is generally so stunned or shocked that no careful consideration is given to the circumstances attending the accident. In the case of one of my patients, in addition to the wound caused by the penetration

¹Praun. *Die Verletzungen des Auges*. Wiesbaden, 1899.

of a breech-pin at the inner side of the eye, the upper lid was nearly separated from its attachments by a wound several inches long, which also crushed in the upper and outer margin of the orbit; so that when the attending physician had closed this wound and cleaned the patient up he doubtless thought that he had done enough.

As before mentioned, medical history contains a number of remarkable cases of foreign bodies in the orbit. An especially good collection of these is found in Mackenzie's excellent text-book.² One patient carried an iron arrow-head in his orbit, without inconvenience, for thirty years, at the end of which time it had worked its way into the nose and was expelled after a fit of sneezing.

Another patient carried three inches of pipe-stem for two years with no discomfort except for a persistent smell of tobacco. This foreign body was also expelled through the nose and mouth.

Another man received a prod with an umbrella which left so slight an external wound in the upper lid that neither he nor the surgeon thought much of it, but he died of meningitis forty-eight hours later, and the autopsy showed that two inches of the brass-shod umbrella-point had passed through the roof of the orbit into the brain and had been broken off there.

Knitting needles have figured frequently in such accidents, and broken-off pieces of them not infrequently remain in the orbit for a lifetime without doing any harm. Perhaps the most remarkable and tragic of these cases, however, is that of Pagenstecher.³ In this case the patient fell, and drove a knitting needle through the eye and the orbital wall for some distance into the brain. A piece ten centimeters long broke off and remained without causing serious symptoms for seventeen years. As the attempt was then made to enucleate the inflamed eyeball, the piece of needle was discovered and extracted; following which brain symptoms appeared, and the patient died about five months later. The autopsy showed an abscess in the medulla and a purulent exudate on the lower surface of the pons.

The breech-pin of the old-fashioned muzzle-loading gun is an object requiring special consideration in this connection.

²Mackenzie. *Diseases of the Eye*. American Ed., 59-61.

³*Klin. Monatsbl. für Augenheilk.*, 1864, 166.

It seems strange that so large and irregular an article as one of these breech-pins could get into the head and remain there for any length of time without exciting any suspicion of its presence, but I have had one such case in my own practice, and in my original report of it⁴ I added a collection of some seventeen other cases which I found in the literature since 1799. In my own case, the patient was injured by the explosion of an old-fashioned musket, the right eyeball being so badly ruptured that it was enucleated* at once. After this, he at times had severe pains in the head, but these spells did not last long, and it was not until two years later that he consulted me. I found the breech-pin and the screw that held it to the stock embedded in a cavity formed by the crushing in of the lower and inner walls of the orbit. They were removed without much difficulty, and the patient made a prompt recovery. One of the most interesting features of this case was the semi-paralysis of the right arm and hand, which had become so marked that this was finally what determined him to seek aid away from home. The prompt disappearance of this paresis, after the removal of the breech-pin, indicates that its cause was either reflex or some temporary congestion. Why it should have appeared on the side of the injury is more difficult to explain. This is the first breech-pin case in which X-ray photography was used to locate the foreign body, and it proved to be a most valuable aid, since without it I should have left the stock-bolt in the man's head. On removing the breech-pin I felt so much like Jack Horner that I should have stopped if I had not had the radiograph to convince me that I ought to do something more; and I have no doubt that in some of the other cases in which we know what the doctor got out, but do not know what he left in, the stock-bolt has been carried away by the patient for future emergencies.

Of the other breech-pin cases I will mention only those of Waldhauer⁵ and Noyes,⁶ as they strikingly illustrate a particular point.

⁴*Ophthalmic Record*, March, 1905, 124.

⁵*Deutsche Zeitschrift für Klin, Chirurgie*, 29:266.

⁶*Amer. Jour. Med. Sci.*, 110, 45.

Waldhauer's patient was a man, aged thirty-three, who had his right eye and orbital margin injured by a bursting musket. The wound healed well and he had no trouble for three years. During the next year he had four bad headaches, ending with a discharge of pus from the orbital cavity; but when seen by Waldhauer, four years after the accident, he felt perfectly well except for the occasional headache. Two small fistulae existed in the orbital tissue, and the probe passed through these felt a hard foreign body. An operation was decided on, and after four hours of hard chiseling, a large breech-pin was removed from the orbit and the cranial cavity. After the operation meningitis and brain abscess developed rapidly, and death occurred. An autopsy showed that the small end of the breech-pin had penetrated the wall of the orbit just below the lesser sphenoidal wing, and had passed on through the temporal lobe of the brain to the edge of the petrosal bone.

Noyes's patient had his right eye destroyed by a bursting gun, and remained unconscious four days. The wound healed perfectly for a time. Later on a fistula developed, but although he was treated at the New York Eye and Ear Infirmary several times, a foreign body was not suspected for about four months. Except for a fistula at the inner end of the eyebrow and an offensive discharge from the nose he was feeling first rate and wanted an operation solely for the cosmetic effect. The operation revealed a breech-pin about four and one-half inches long, partly in the orbit and partly in the brain. After its removal meningitis and brain abscess developed, and death occurred about a month later.

The following case is worthy of notice as illustrating the ease with which the point of entry of some of these bodies can be overlooked. The patient was the sheriff of a western county and came to me stating that the day before, while standing at the depot, his right eye had been wounded by a pistol shot fired from the end of a departing train. At my first examination, I discovered no trace of an external wound; the eye looked normal externally, and the fundus was normal, but the sight was reduced to the mere perception of light, and a radiograph showed a well-marked shadow corresponding in size to about that of a 38 bullet,

near the posterior end of the orbit. At first I was somewhat at a loss to account for the lack of an external wound, and the idea that the shot might have entered the nostril was suggested.⁷ A closer inspection, however, showed a slight abrasion of the skin near the margin of the inner angle of the lower lid, and extreme rotation of the globe upward revealed a wound in the corresponding part of the conjunctival fornix. Here evidently was the point of entry, but how to explain the remarkable lack of subconjunctival hemorrhage and of other signs of violence to the globe was still difficult. Further pumping of the patient made it probable that the shot, which had been fired by one of an hilarious party on a rear platform, had not been aimed at the patient but had struck the projecting roof of the car and had glanced down so as to pass between the lid and the eyeball with a minimum external trauma, and then had followed the lower wall of the orbit to its hind end. The man was having no pain, and as the chance of helping the sight by extracting the ball was highly improbable, nothing of the sort was attempted.

The briefest survey of a history of foreign bodies in the orbit can not fail to impress the student with the necessity in all cases of penetrating wounds in this region, of suspecting and searching for one or more foreign bodies, unless it is perfectly certain, from an examination of whatever caused the wound, that nothing can have been left behind. This is one of the regions where the use of the probe is still in order, and in certain cases the finger itself must be introduced before the foreign body can be detected. Furthermore, in no case of this sort should the use of the X-ray be neglected. Even if the foreign body can be detected at once, and removed, a subsequent radiograph may be of the greatest service in determining whether more than one foreign body should not be searched for. In another way, also, the X-rays may be of the greatest service; namely, in determining whether or not the foreign body has penetrated the cranial cavity. This point should always be decided if possible, since where this is

⁷This explanation was suggested by a case which I came across in a work on gunshot wounds in the French army, published about 1753. A bullet passed into a man's nostril and came out near the ear of the same side, with so little evidence of injury to the nose that the point of exit was treated, for some time, as the wound of entry.

found to be the case the outcome of any attempt at extraction must always be regarded as dubious. The possibility of doing harm by extracting a foreign body from the orbit should always be considered, as indicated by a number of recorded cases. The most striking is that of Demours (cited by Mackenzie, page 59^s), in which the extraction of a piece of a slender spike which a child had carried without inconvenience in its orbit for six weeks was followed, within fifteen minutes, by the death of the child in convulsions. But where, as in the cases cited above, of Pagenstecher, Noyes, and Waldhauer, a radiograph must have shown clearly that the foreign body was partly within the cranium, the surgeon would be prepared for extra difficulty and be warned of the great probability of a fatal result.

Waldhauer indeed questions whether the removal of the breech-pin in his case was justifiable, and is at least sure that if he had known how the breech-pin lay, he would have turned the case over to some one else with better surgical facilities than he had. It is probably best, in such cases, to advise removing the foreign body, but it is certain that in the case of a patient with no alarming symptoms he alone ought to make the decision whether to risk the precipitation of a fatal result by an operation, or to encounter the practical certainty of a fatal termination sooner or later, with the counter-balancing advantage of being able to live almost certainly for several weeks, months, or years before being killed by the foreign body. In any event, he should at least have time to make his will and get his life insured.

As a complement to the numerous cases in which foreign bodies have remained unsuspected in the orbit, may be mentioned the instances of bodies thought to be in the orbit which were not so. I refer to those cases in hysterical subjects where absurd quantities of glass have been alleged to come from the orbit or conjunctival sac. The most famous of these is that of Colette and Ansiaux in which, in the course of fifteen months, the patient, who was injured by glass from a broken window in a blown-to-door, was supposed to have had over two hundred pieces of glass

^sIn citing this case both Berlin (*Graefe-Saemisch*, 1st Ed. 6: 638) and De Wecker (*Traite Complet d'Ophthalmol.* 4: 803) describe the foreign body as a piece of wire, but Mackenzie's report is more complete and probably more accurate.

removed from her orbit. Immediately after the accident, Colette himself removed a few from the conjunctival sac; the others appear to have been removed by the patient herself with the aid of crochet hooks and hairpins. She claimed to be able to tell when they were approaching the surface by the pain which they caused, and she exhibited an inflamed and bleeding eye as proof of her assertions. This case, considered by present writers as plainly one of hysteria and deception, is cited by Baudry,⁹ who adds a similar case of his own in which the patient, also a woman, claimed to have been injured with a beer glass, and kept coming back to him for the removal of pieces of glass, some of which she herself had evidently introduced between the eye and the orbital wall.

⁹*Arch. d'Ophthalmol.*, 6: 259.

*A List of Serials in Medicine and Allied Sciences Available for
the Physician and Investigator in the Libraries of
The University of Nebraska and of the
Nebraska State Medical Society*

BY HENRY B. WARD, THE UNIVERSITY OF NEBRASKA
AND H. WINNETT ORR, LIBRARIAN, NEB. STATE MEDICAL SOCIETY

In the preparation of this list the term medicine has been construed in its broadest sense, so as to include not only the periodicals dealing with the healing art *sensu strictiore*, but to embrace also the field of comparative medicine in which the investigator especially is becoming more deeply interested year by year, and in addition those fields of biology on which in last analysis the *science* of medicine rests. These include histology, embryology, comparative and human anatomy, physiology, pharmacology, pharmacodynamics, hygiene, bacteriology, neurology, and pathology in addition to the various clinical specialties.

The various zoological periodicals contain such numerous references to histology, embryology, anatomy, parasitology, etc., that they are naturally included, except those which deal exclusively with a specific field such as conchology, ornithology, or ichthyology. In entomology, although there are occasional references in almost every journal which might be of service to the physician, it was deemed best to omit the titles and call attention here to the fact that the library of the Department of Entomology will furnish facilities for investigating any problem touching upon this field.

In chemistry only such references are included as deal particularly with biological, physiological, and pharmaceutical chemistry. There is also in the Chemical library a considerable list of other journals containing occasional articles of interest in this field and offering abundant opportunity to follow up other topics in chemistry. We have omitted also all series on vital statistics and all hospital reports. Both are numerous, scattered, incomplete, and not available for immediate use of the student. If such

information is sought, the available material will be indicated by the University librarian. However, publications of charity organizations and institutions have been included for their material concerning the insane, feeble-minded, epileptic, inebriate, and consumptive classes.

In anthropology and ethnology, only those journals have been listed which contain work on racial anatomy and physiology, normal or pathological, while psychological titles are limited to such as include experimental work and mental pathology.

Reports of United States government institutions are given only for the separate issues in each library. Full sets will be found in the Public Document collection in the University library.

The bibliographic list includes only general reference works in medicine and the allied sciences. No attempt has been made to enumerate the special bibliographies on the numerous branches of each science.

In conclusion we have the agreeable duty of rendering our sincere thanks to Mr. J. I. Wyer, former librarian at the University, Miss N. J. Compton, Miss M. B. Beattie, and Miss Esther Crawford, all of the University library, for valuable assistance in the preparation of the list. We hope that it may prove useful to the physicians and investigators in medical biology in this region.

MEANING OF ABBREVIATIONS USED

- B = Library of Botanical Department
- C = Library of Chemical Department
- F = Library of Experiment Station at Farm
- M = Library of State Medical Society
- U = Main library of the University of Nebraska
- W = Private library of Henry B. Ward
- Z = Library of Zoological Department.

All books listed under M and U are in adjacent rooms in the library building on the University campus and are immediately accessible. The other libraries are in other buildings, but books may be secured for consultation on application to the University librarian. The distance will necessarily involve some delay. The University libraries are primarily for reference, and the volumes

can not be loaned without injustice to some. All are freely open for consultation at all times, and special privileges accorded members of the Nebraska State Medical Society may be ascertained on conference with the University librarian.

Unbound volumes in the University libraries are shown by italics, but unbound material in other libraries has not been uniformly indicated.

State medical societies are entered under name of state, and local charity organizations under name of city. Publications of societies will be found, as a rule, under the corporate name of the institution instead of under the place of headquarters or the title of the publication (unless the latter is of the nature of a periodical) and with few references. Universities are entered under the place of location, unless they have distinctive names, but state universities are entered under names of states. National, state, and city institutions are entered under the names of the nations, states, or cities. Periodicals are entered under the first word of their last well-known title (or the last represented in the libraries here listed), with reference from other forms of titles when materially different.

SERIALS

(Except those appended to this list as Bibliographies)

*Italics signify that the volume is unbound. A * that it is incomplete.*

Abstract of the med. sci. *See* Half-yearly abstract.

Academia de ciencias médicas, físicas y naturales, Havana.
Anales: revista científica.

U 34*, 36*—37*—38, 41: 1897, 1900—01, '04—05.

Académie des sci., Paris. *See* Institut de France.

Académie des sci. et lettres, Montpellier—Sec. de méd. Mémoires. U Ser. 2: *v1**—2*: 1893, '98—99; 1903.

Académie impériale des sci., St. Petersburg. Bul. (in Russian chiefly). U 1—13*: 1894—1900.

————— Mémoires: Classe phys.—math. (part in Russian).
U Ser. 7: *v39**, 40—42: 1892—97. Ser. 8: *v1—10**:
1894—1900.

- Académie royale des sci., des lettres, et des beaux-arts de Belgique, Brussels. Bul. de la classe des sci.
 U Ser. 1—date: 1832—date. Indexes, 1832—95.
 ——— Mémoires couronnés et autres mém.; 8vo ser.
 U 43: 1889.
 ——— Mémoires couronnés et mém. des savants étrangers;
 4to ser. U 50—51; 1889—90.
- Academy of nat. sci., Phila. Jour. Z 1—7: 1817—37.
 ——— Proceed. Z Ser. 1: v5—ser. 3: vi6, 18—21, 25—33:
 1850—86, '88—91, '95—1903.
- Academy of sci., St. Louis. Trans.
 U 1*—2—date: 1857—date.
- Accademia della sci., Istituto di Bologna. *See* Istituto di Bologna.
- Alabama state med. assoc. Transac., and Rep'ts of State board
 of health. M 26, 30, 34, 38, 42—44, 47—49, 51—54:
 1873, '77, '81, '85, '89—91, '94—96, '98—1901.
- American acad. of arts and sci., Boston. Proceed.
 U 24—date: 1858—date.
- American acad. of med., Easton (Pa.) Bul.
 U 5—date: 1900—date.
- American acad. of railway surg., Columbus (O.) Official rept.
 M 1: 1894.
- American acad. of sci. Bul. M 6*—7*: 1905.
- American anthropologist. U 1—date: 1888—date.
- American assoc. for the advancement of phys. educ. Proceed.
 and repts.
 U 1, 3—9 and Gen. index, 1—10: 1885, '87—94.
- American assoc. for the advancement of sci. Proceed. U 38,
 51, 53—date: 1888, 1902, '04—date. M 31—32:
 1883—84. W 48—date: 1899—date.
- American dermatolog. assoc., N. Y. Transac. M 17: 1893.
- American gymnasias and athletic record.
 U 1—date: 1904—date.
- American gynaecolog. and obstet. jour.
 M 15*—16, 18*—19: 1899—1900, 1901.
- American jour. of anat. U 1—date: 1901—date.
- American jour. of obstet. and diseases of women and children.
 M 16*, 20—22, 32—44: 1883, '87—89, '95—1901.
- American jour. of physiol. U 1—date: 1898—date.

- American jour. of psychol. U 1—date: 1887—date.
 American jour. of sci. (Silliman's jour.)
 U 1—date: 1819—date. Indexes, 1—70.
- American jour. of the med. sci. M 1—7, 13, 20; n.s. 18—19, 21, 26—27, 29, 31—34—35—37—38—42, 47—60—61—78—79—80—81—84—85—86—87—112—113*—114*—115—116—117*—118*—119—124: 1827—30; n.s. 1849, '51, '53—54, '55, '56—61, '64—99.
- American laryngolog. assoc., N. Y. Transac.
 M 13, 15: 1891, '93.
- American med. assoc., Phila. Transac.
 M 2, 24, 33: 1849, '73, 82. (Continued in the Jour. of the Amer. med. assoc., 1883—date.)
- Section on pathol. and physiol. Transac.
 U 53—date: 1902—date.
- American med. review. See Medical review of reviews.
- American medicine. M 1—date: 1901—date.
- American microscop. soc. Proceed. Z 1—date: 1878—date. (VI—14, named Amer. soc. of microscopists.)
- American monthly microscop. jour.
 B 12, 15—22, 23*: 1880—81, '94—1902.
- American museum of nat. hist. Bul.
 Z 2—14, 19—date: 1887—1901, 1903—date.
- American naturalist. U 1—9, 11—14, 16—date: 1867—75, '77—80, '82—date.
- American otolog. soc., Rochester. Transac.
 M 21—24, 28: 1888—91, '95.
- American philosoph. soc., Phila. Proceed.
 U 1*, 15—42: 1744—1838, '76—1903.
- American phys. educ. review. U 1—date: 1896—date.
- American postal microscop. club, Troy. Annual rept.
 W 11—date: 1885—date.
- American pub. health assoc., Cambridge. Pub. health: repts. and papers. U 11—16: 1885—90.
- American surgery and gynecol. M 15: 1901—02.
- American vet. med. assoc. Proceed.
 F 28—30, 33—36: 1891—93, '96—99. (Prior to 1899, named U. S. vet. med. assoc.)

American vet. review.

F 21, 25—date: 1897/8, 1900/01—date.

Anatomische hefte, hrsg. v. Merkel u. Bonnet: Abt. 2. *See*
Ergebnisse der anat. u. entwicklungsgesch.

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Annalen der naturphilosophie. U 1—date: 1901—date.

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Annales des sci. nat.: Zoologie. Z Ser. 3—date: 1844—date.

Annals of hygiene. U 9—11: 1894—96.

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Année biologique. B 1—7: 1895—1902.

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W 1—date: 1897—date. Z 1—2: 1897—98.

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U 25*: 1895.

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M Ser. 1, 2—7, 9: 1888, '90—94, '96.

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U 3: 1883—85.

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tonio Alzate."

Arbeiten aus dem Kaiserlichen gesundheitsamte. *See* Germany.

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U 1902—date.

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U 1902—date.

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F 7: 1891.

Archiv für die gesammte physiol. des menschen u. d. thiere.

Z 46—53*—54—date: 1889—date.

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Z 1—date: 1895—date.

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U 51—date: 1903—date.

Archiv für hygiene. F 1—31, 49—date: 1883—97, 1904—
date. Index, 1—10.

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F 12—date: 1876—date. Indexes, 1—40.
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F 11—date: 1857—date. Indexes, 1—150.
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F 1—date: 1875—date. (For predecessor, see
Magazin für die gesammte thierheilkunde.)
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praxis im preussischen staate.
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F Ser.1: vi—5: 1889—93.
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M 3—4, 6—7: 1894—95, '97—98.
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M 13, 26: 1888, 1901.
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 15*, 21—28*—50, 52—77, 142*—143*—144*—145*,
 151*—152*—153*: 1831—36, '39—54, '55—68, 1900
 —05.
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 W 1—date: 1903—date. U 1*—2*: 1905—06.

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W 1—date: 1901—date.
- Centrallblatt für allgemeine gesundheitspflege. F 2—9, 1883—
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rheinischen vereins für öffentliche gesundheits-
pflege.)
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F 3—4: 1892—93.
- Centrallblatt für bakteriol., parasitenkunde, u. infektionskrank-
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isches centralblatt.
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U 6—date: 1901—date.
- Charities review (N. Y.) U 1—10 and Gen. index: 1891—
1901. (No more pub. Consolidated with Charities,
Feb. 1901.)
- Charity organization review (London). U 1—5, 6*: 1885—90.
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soc.
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- Chevtchenko. *See* Sevčenko.
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- Chicago clinic and pure water jour. M 12*—13*, 15*—16*—
17: 1899—1900, '02—04. (Omaha clinic merged
with this jour., 189—. Prior to Jan. 1902, title was
Chicago clinic.)
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'60—62, '69—70. (Consolidated with Med. examiner,

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- Cincinnati med. observer. M 2: 1857. (No more pub. See Cincinnati lancet and observer.)
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- Cleveland med. gazette. M 15*—16*—17*: 1899—01.
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- College and clinical record. M 1—3: 1880—83.
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- Columbia university. Contributions to philos., psychol. and educ. U 1—date: 1894—date.
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- Congreso científico latino americano. Reunion. U 1*—2*: 1898, 1901.
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- Connecticut med. soc. Proceed. M 81—83, 92—94, 96—113: 1872—74, '83—85, '87—1905. Gen. index, 1792—1891 in v100. (1890—91 were both numbered 99th session.)
- Correspondenz-blatt für Schweizer ärzte. F 21—23: 1891—93.
- Critique. M 7—8*, 12*: 1900—01, '05. (VI—3 named Denver jour. of homœopathy.)
- Crónica médico-quirúrgica de la Habana.
W 26—date: 1900—date. M 29*: 1903.
- Davenport acad. of nat. sci. Proceed. U 6—9: 1889—03.
- Delaware—Health, Board of. Biennial rept. U 7: 1890—92.
- Delaware state med. soc. Proceed.
M 95—96, 99, 102, 112: 1884—85, '88, '91, 1901.
- Denison university, Granville (O.)—Scient. lab. Bul. U 2—3, 6—7, 9*, 11*—12*: 1887—88, '91—92, '95, '98—1904. Index, 1—10. W 2—date: 1887—date.
- Denver jour. of homœopathy. *See* Critique.
- Denver med. times. M 19*—20—21—22—25*: 1899—1905. (VI, 1882, named Rocky Mountain med. times.)
- Deutsche medicinische wochenschrift.
U 9—20, 22—23—29: 1889—94, '96—1903.
- Deutsche zeitschrift für thiermedizin u. vergleichende pathologie.
F 1—22: 1875—97. (No more pub. *See* Zeitschrift für thiermedizin.)
- Deutsche zoologische gesellschaft. *See* Tierreich. Zoolog. anzeiger.
- Deutscher verein für armenpflege u. wohlthätigkeit, Leipzig. Schriften. U 1—10: 1886—90.
- Deutscher verein für medizinal statistik, Stuttgart. Beiträge zur medizinal-statistik. F hft.3: 1878.
- Dietetic gazette. *See* Times and register.
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U 1, 3: 1901, '05.
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U 1—date: 1883—date.
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U 1, 3—11—12—14: 1891, '93—1904.
- Federated Malay States. See Malay States.
- Fortschritte der medicin. U 1—11, 14—15, 22—date: 1884—93, '96—97, 1904.
- Gaillard's med. jour. M 70*—71*—72—75—76—80*—81*—82*—83*: 1899—1905. (Formerly the Richmond and Louisville med. jour., for v6—28. Recently consolidated with Southern medicine.)
- Georgia med. assoc. Transac. M 23—24, 31—32, 34, 37—38, 41, 44—45, 51, 53—54: 1872—73, '80—81, '83, '86—87, '90, '93—94, 1900, '02—03.
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U 1—12, 14—date: 1886—96, '98—date.
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- Good health (Battle Creek). U 30—date: 1895—date.
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- Half-yearly abstract of the med. sci., ed. by...Ranking; Amer. reprint. M 1—5, 7, 44—46, 49—52, 58: 1845—47, '48, '66—67, '69—70, '73. (No more pub. See Monthly abstract.)
- Half-yearly compendium of med. sci. See Quarterly compend. of med. sci.
- Harvard university—Museum of compar. zool. Annual repts. W 4, 7—10, 12—15, 17—date: 1862, '65—68, '70—73, '75—date. Z 33—date: 1891—date.

- ————— Bul. W 1—date: 1863—date.
Z 1—11, 12*, 22—23, 24*—25—40, 44—date.
- ————— Memoirs. Z 1—2—3*, 5, 8*—9*—
10*—11*—12*—13*, 17—19, 22, 24.
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chemie.)
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- Illinois—Charities, Board of. Biennial rept. U 2—4, 6—12,
14—16: 1872—76, '80—92, '98—1900.
- Health, State board of. Annual rept. *
M 7, 11: 1884, '88.
- Illinois med. bul. M 5*—6*: 1905—06. (For predecessor,
see Ill. state med. soc. Transac.)
- Illinois state med. soc., Chicago. Transac. M 34, 36—40, 43—
44: 1884, '86—90, '93—94. (For 1899—date, see
Ill. med. bul.)
- Imperial university, Tokyo. *See* Tokyo, Imperial university.
- India—Sanitary com'r, Office of. Scientific memoirs by officers
of the med. and sanit. depts.
W Ser.1—date: 1884—date.
- Indiana—Charities, Board of. Rept.
U 1, 3—4—5—6—7—8—9—11: 1890, '92—1900.
- Quart. bul. U nos.29, 33, 38, 41, 45: 1897—1901.
- Indiana acad. of sci., Indianap. Proceed.
U 7—15, 17—18: 1891—99, '01—02.
- Indiana state med. soc., Indianap. Transac. M 24, 26—27, 29,
33, 43, 47—48, 51—56: 1874, '76—77, '79, '83, '93,
'97—98, '01—05.
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- Institut de France—Acad. des sci. Comptes rendus hebd. des
séances. U 1—date: 1835—date. Index, 1—31.
F 106—11: 1888—90.
- Institut égyptien, Cairo. Bul.
U Ser.4: v2*—3—4—5*: 1901—04.
- Institut Pasteur, Paris. Annales.
Z 1—4, 6—7: 1887—90, '92—93. F 1: 1887.

- Institute for med. research, Singapore. *See* Malay States.
- Instituto científico y literario "Porfirio Diaz," Toluca—Sec. científico. U 5*—6*: 1902—03.
- International clinics. M Ser.1: v2—4; ser.2—3; ser.10: v2—3; ser.11: v1; ser.12—13; ser.14: v1, 3; ser.15: v2: 1891—94, 1900—05.
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- International cong. of experim. psychol. Proceed. U 2: 1892.
- International jour. of microscopy and nat. sci. *See* Jour. of microscopy and nat. sci.
- International med. annual and practitioner's index. F 16: 1898. (Reprint of Med. annual, London.)
- International med. cong., Washington, 1877. Transac. 1—5. M.
- International medico-legal cong., N. Y., 1891. Bul. F.
- International sanitary conf., Washington, 1881. Proceed. U.
- Interstate med. jour. M 7*—8—9—10—11*: 1900—04. U 10*—11*—12*: 1903—05.
- Iowa—Health, Board of. Biennial rept. M 1—3: 1879/80—84/5.
 ——— State university—Lab. of nat. hist. Bul. U 1—date: 1888—date.
- Iowa acad. of sci., Des Moines. Proceed. U 1—date: 1883—date. Z 1*—3, 5—6: 1883—86, '88—89.
- Iowa state med. soc. Transac. M 20—38, 41—42, 44—49, 51—53: 1872—90, '92—93, '95—1900, '02—05.
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 ——— Sezione delle sci. nat. Memorie. U Ser.5: v2—4, 7—9—10; ser.6: v1: 1891—94, '97—1904.
- Jahrbücher der in- u. ausländischen gesammten med. *See* Schmidt's jahrbücher.
- Jahresbericht über die fortschritte der gesammten med. in allen ländern. *See* Jahresbericht über die leistungen u. fortschritte in der gesam. med.
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- Japan—Imperial university. *See* Tokyo, Imperial university.
- Jenaische zeitschrift für naturwissenschaft. Z 1—date: 1874—date. Index, 1—30. (VI—7 named Jenaische zeitschrift für med. u. naturwissenschaft.)
- Johns Hopkins hosp., Baltimore. Bul. U 11—date: 1900—date.
- Johns Hopkins university—Biolog. lab. Studies. Z 1*—2—5.
- Journal of anat. and physiol. U 24—26, 28—30, 37—date: 1889—92, '93—96, 1902—date. Index, 1—20.
- Journal of applied microscopy (Rochester). U 1—6: 1898—1903. (No more pub.)
- Journal of compar. med. and surg. *See* Journal of compar. med. and vet. archives.
- Journal of compar. med. and vet. archives. F 1—24: 1880—1903. (No more pub. VI named Archives of compar. med. and surg. v2—10 named Jour. of compar. med. and surg.)
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- Journal of compar. pathol. and therapeutics. F 1—date: 1888—date. (In Jan. 1903, Veterinarian merged with this jour.)
- Journal of cutaneous diseases, including syphilis. M 5—7: 1887—89. (VI—4 named Jour. of cutaneous and venereal diseases. v5—10 named Jour. of cutaneous and genito-urinary diseases.)
- Journal of experim. med. U 1—date: 1896—date. (Suspended temporarily, Jan. 1903—Dec. 1904.)
- Journal of experim. zoology. W 1—date: 1904—date.

- Journal of health, conducted by an assoc. of physicians (Phila.)
M 1-2*-3: 1829-32
- Journal of hygiene (Cambridge, Eng.) U 1-date: 1901-date.
- Journal of infectious diseases. U 1-date: 1904-date.
- Journal of med. research. U 6-date: 1901-date. (v1-5
named Jour. of the Boston soc. of med. sci.)
- Journal of mental sci. U 1*-33, 35-date: 1853-88, '89-
date. (v1-4 named Asylum jour. of mental sci.)
- Journal of microscopy and nat. sci. (London). U 2*-3-
4*, 6*; n.s. 1-2*; ser.3: v5: 1883, '84-85, '87,
'88-89, '95. Z 3-4, 6; n.s. 1-2: 1884-89.
(Discontin. with v7. v1-2 named Jour. of the Pos-
tal microscop. soc. In 1891, title on cover became
Internat. jour. of microscopy and nat. sci.)
- Journal of morphol. Z 1-17: 1887-1901. (No more pub.)
- Journal of pathol. and bacteriol. F 1-date: 1893-date.
- Journal of philos., psychol. and scient. methods.
U 1-date: 1904-date.
- Journal of physiol. U 28-date: 1902-date.
- Journal of the Amer. med. assoc. M 1-3, 10-43-44*-
45*-46*: 1883-84, '88-1906.
- Journal of the Boston soc. of med. sci. *See* Jour. of med. re-
search.
- Journal of the Elisha Mitchell sci. soc. *See* Elisha Mitchell sci.
soc.
- Journal of the N. Y. microscop. soc. *See* N. Y. microscop. soc.
Jour.
- Journal of the Postal microscop. soc. *See* Jour. of microscopy
and nat. sci.
- Journal of the Royal microscop. soc.
U 1-date: 1878-date. (For predecessor, see
Monthly microscop. jour.)
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U 1*, 10-date: 1885, 1902-date.
- Journal of tropical med. W 2-date: 1899-date.
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Math.—naturwis. klasse. W Abt. 1: 104-date:
1895-date; Abt. 3: 110-date: 1901-date.
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- Kansas—Health, State board of. Annual rept.
 U 4—5, 7—8: 1888—89, '91—92.
- Kansas acad. of sci., Topeka. Transac. U 6—16, 18 and
 Gen. index, 1—17: 1877—98, 1901—02.
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- Kansas med. soc. Jour. M 5*: 1905. (For predecessor,
 see Kansas med. soc. Transac.)
- Transac. M 1—22, 34: 1860—88, 1900. (For
 continuation, see Kansas med. soc. Jour.)
- Kasr-el-Ainy. *See* Egypt—School of med.
- Kentucky—State coll.—Lab. of anat. and physiol. Bul.
 M Ser.2: no.5: 1905.
- Kentucky state med. soc. Minutes and transac. M 33—36,
 38, 40, 44—46: 1888—91, '93, '95, '99—1901.
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 U 1878—79, '88—91, '94—96, 98—1904.
- Königlich-böhmische gesellschaft d. wissenschaften, Prag. Jahr-
 esbericht. U 1899—date.
- Math.-naturwis. classe. Sitzungsberichte.
 U 1899—date.
- Königliche central-thierarzneischule, München. *See* Königliche
 thierärztliche hochschule, München.
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 U 1895—date.
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 1—2, 4—7, 10—11, 16—17: 1868—69, '71—74,
 '76/7—'77/8, '83/4—84/5.
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 F 1—15: 1876/7—91/2. (Before 1890, named
 Königliche central-thierarzneischule, München.)
- Koninklijke akad. van wetenschappen, Amsterdam—Sec. of sci.
 Proceed. U 1—5, 6*, 7*: 1899—1904.
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See Natuurkundig tijdschrift voor Nederlandsch-
 Indië.
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 M 1900*, '04*.

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'66*—67*—68, '71*—72*, '76, '78*—79*—80—81*.
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- Leland Stanford junior university. Publications: Contrib. to
biol. from the Hopkins seaside lab.
Z 1—date: 1895—date.
- Lens. B 1—2: 1871—73. (No more pub.)
- Linnean soc., London. Journal: Zoology.
W 1—date: 1855/6—date.
- Linnean soc. of New South Wales, Sydney. Proceed.
W 19—date: 1894—date.
- London lancet. *See* Lancet (London).
- Louisiana state med. soc. Proceed. M 2, 5, 7—11, 13—14,
16, 19—22: 1879, '83, '85—89, '92—93, '95, '98—1901.
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- Lund, Kongliga Karolinska universitetet, Sweden. Arsskrift.
U 37: 1901.
- Luzerne county med. soc., Wilkesbarre (Pa.) Transac.
M 10—11: 1902—03.
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74. (For continuation, see Archiv für wissenschaft-
liche u. praktische thierheilkunde.)
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U 8—9, 12—13: 1892—95, 1901—03.
- Maine med. assoc. Transac. M 31—33, 36—39, 43—45, 47—
52: 1883—85, '88—91, '95—97, '99—1904.
- Malay States, Federated—Institute for med. research, Singapore.
Studies. U 1*—2*: 1901—02.
- Manchester (Eng.) literary and philosoph. soc. Memoirs and
proceed. U 37—39*, 40*—41—47*, 49—date:
1872/3—1902/3, '04/5—date.
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W n.s. 1—date: 1889—date.
- Marine biolog. lab., Wood's Holl (Mass.) Biolog. lectures.
Z 1—2: 1890—93.
- Repts. Z 1: 1888.
- Marine hosp. service, U. S. *See* U. S.—Marine hosp. service.
- Marseilles, Faculté des sciences. *See* Faculté des sci. Marseilles.

- Maryland med. and chirurg. faculty. *Transac.* M 79—80, 83—87, 89—92, 94—96, 103—04: 1877—78, '81—85, '87—90, '92—94, 1901—03.
- Maryland med. jour. M 42: 1899.
- Massachusetts—Charity, State board of. *Annual rept.* U 1—2, 5, 7, 9—date: 1879—80, '83, '85, '87—date. (vi—7 contain repts. of State board of health. vi—20 contain repts of State board of lunacy.)
- *Health, State board of. . . annual rept.* U 1, 8, 10, 15—16, 19—21, 22, 23—26, 27, 28, 29—32, 34—35: 1869, '76, '78, '83—84, '87—1900, '02—03.
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- Massachusetts med. soc., Boston. *Med. communications.* M 12*—13*—14—15*—16*—17*—18—19*: 1876—84, '86—91, '94—95, '97—1904. U 7*, 13*: L845, '83.
- *Triennial catalogue and directory.* M 1881—99.
- Medical and chirurg. faculty of Maryland. *See* Maryland med. and chirurg. faculty.
- Medical and surg. reporter (Phila.) M n.s. 2*—3*—4, 10*—11*, 16—19*, 22*—23*—25, 27*—28*, 30—44*—45—46*—47—48*—49—57*: 1859—60, '63—64, '67—73, '74—87.
- Medical annual, London; Amer. reprint. *See* International med. annual.
- Medical brief. M 5*—8*, 11*, 16—17*, 20*, 26*—31*—32—33*: 1877—80, '83, '88—89, '92, '98—1905.
- Medical examiner (Phila.) M 1, 3; n.s. 2—6*—7—8, 10—11*: 1838, '40; n.s. —846—50, '51—52, '54—55. (v6 added to title: 'and retrospect of the med. sci.' v7 and n.s. vi—12 named Med. exam. and record of med. service. In Jan. 1857, united with Louisville review, forming North Amer. medico-chirurg. review.)
- Medical gazette (N. Y.) M 7: 1880. (Discontin. with v10, 1883. v6 named Hospital gazette. Continued by the Æsculapian.)

- Medical news (Phila.) M 29—33, 39, 44—date: 1871—76, '81, '84—date. U 48—62, 68, 74—79, 82—date: 1886—93, '96, '99—1901, '03—date. (v1—37 named Med. news and library. v38—39 named Med. news and abstract.)
- Medical record (N. Y.) U 27, 30—32, 37—44, 46—49, 53—date: 1885, '86—87, '90—96, '98—date. M 12—13, 16—17, 20, 22—24, 29—36, 39, 41—42—43*—44—50—51*—52—55—56*—57*, 59*, 61*, 63*—64*: 1880, '81, '82—83, '86—89, '91, '92—1900, '01, '02, '03.
- Medical register (Phila.) U 3—5*: 1888—89. (No more pub. See Times and register.)
- Medical review (Chic. and St. Louis). See Weekly med. review.
- Medical review of reviews (N. Y.) M 6—date: 1900—date.
- Medical sentinel. M 7*—8*—9—10*—11—12*—13*: 1899—1905. (v1, nos.1—10, named Pacific med. record.)
- Medical societies of various states and territories. See names of states and territories in which located.
- Medical times (N. Y.) [homeopathic]. U 29*—30*—31*—32—date: 1901—date. M 23*, 28—31*—32*—33*: 1895, 1900—05. (Continuation of N. Y. med. times.)
- Medical times (Phila.) See Philadelphia med. times.
- Medicine (Detroit). M 2: 1896.
- Merck. Annual rep't [on advancement of pharmaceut. chem. and therap.] U 12—18: 1898—1904.
- Merkel u. Bonnet, hrsg. Ergebnisse der anat. u. entwicklungsgeschichte. See Ergebnisse der anat. . .
- Michigan—Charities and correc., State board of. Biennial rept. U 1—3—4, 7—9, 14—16: 1871—78, '83—88, '91—92, '97—1902.
- Michigan—Health, State board of. Annual repts. U 1—31: 1873—1903.
- Proceed. and addresses of the annual conf. of the health officers. M 4, 6: 1899, 1903.
- Sanitary conventions. Proceed. U 1887*—1888*—1889—1890—1891—1892*—1893*, 1896*—1897*—1898*—1899*. M 1890*, 1899*.

- Michigan acad. of sci., Lansing. Rept.
U 1—date: 1894—date.
- Michigan state conf. of charities and correc. and County agents' assoc. Proceed. U 7—11, 16, 19, 21: 1888—92, '97, 1900, '02.
- Michigan state med. soc. Jour. M 1*—2*—3*—4*: 1902—05. (For predecessor, see Mich. state med. soc. Transac.)
- Transac. M 6—9, 11—16, 18—25, 28—35: 1872—75, '77—81, '83—90, '93—1900. (For continuation, see Mich. state med. soc. Jour.)
- Microscopical bul. and sci. news.
U 9—16: 1892—99. W 16—18*: 1899—1901.
- Milwaukee—Health, Com'r of. Annual rept.
U 24, 26: 1901, '03.
- Mind (London). U 1—date: 1876—date. Index, 1—16.
- Mind and body. U 1—date: 1894—date.
- Minnesota—Corrections and charities, State board of. Biennial rept. U 1—3: 1885—88.
- Minnesota acad. of nat. sci., Minneap. Bul.
U 3—4*: 1883—94.
- Minnesota state conf. of charities and correc. Proceed.
U 13: 1904.
- Minnesota state med. soc. Transac. M 16—21: 1884—89.
- Mississippi state med. assoc. Transac. M 17, 19—21, 24, 35—36: 1884, '86—91, '94, 1902—03.
- Mississippi Valley med. assoc., Louisville. Transac. M 25—26: 1899—1900. (1875—83, named Tri-state med. soc.)
- Missouri—University. Studies: Sci. ser.
U 1—date: 1905—date.
- Missouri state med. assoc. Transac. M 24, 26—32, 34, 36—40, 43, 45—46: 1881, '83, '85—89, '91, '93—97, 1900, '02—03.
- Missouri Valley med. soc. Transac. of the semi-annual meet.
M 14: 1902.
- Mitchell scient. soc. See Elisha Mitchell sci. soc.

- National acad. of sci., Washington. Memoirs.
U 2—8: 1883—1902.
- National assoc. of railway surg., Chicago. Transac.
M 1—3: 1891—93.
- National conf. of charities and correc. Proceed.
U 2, 4—date: 1875, '77—date.
- National museum, U. S. See United States nat. museum.
- National veterinary assoc., London. Proceed.
F 3—6: 1885—88.
- Natural sci. (London). U 1—15: 1892—99.
- Nature (London). U 1—date: 1869—date.
- Naturforschende gesellschaft, Basel. Verhandlungen. U 3*,
11*—12—15*—16—date: 1863, '97—date. Index,
6—12.
- Naturforscher-gesellschaft bei der Universität Dorpat. See
Dorpat.
- Naturforschende gesellschaft, Bern. Mittheilungen.
W nos.1305—date: 1893—date.
- Naturforschende gesellschaft, Freiburg i. Br. Berichte.
W 11—date: 1899—date.
- Naturforschende gesellschaft, Zurich. Vierteljahrsschrift. U
37—38, 39—40, 41—44—45—46*—47—49*—date:
1892—date.
- Naturwissenschaftliche gesellschaft, Chemnitz. Berichte.
U 15: 1899—1903.
- Naturwissenschaftlicher verein, Elberfeld. Jahresbericht.
U hft. 9: 1899.
- Naturwissenschaftlicher verein, Magdeburg. Jahresbericht u.
abhandlungen. U 1892—98, 1900—04.
- Natuurkundig tijdschrift voor Nederlandsch-Indië.
U Ser.10: 259—63: 1900—04.
- Neapel. See Naples.
- Nebraska—Pharmacy, State board of examiners. Annual rept.
U 1: 1888.
- Nebraska—University—Coll. of med. Bul.
U 1—date: 1906—date.
- Zoolog. lab. Studies. Z 1—date:
1894—date. U 2—date: 1901—date.

- Nebraska acad. of sci., Lincoln. Publications.
U nos.2, 4-5, 7: 1891, 93-95, '97.
- Nebraska state conf. of charities and correc. Rept.
U 7-9: 1903-05.
- Nebraska state med. soc., Lincoln and Omaha. Proceed. M
1-2, 4-12-13-34: 1868-70, '72-1903. Z
15, 18-19, 28-29: 1883, '86-87, '96-97. (v19-
24 pub. also in Omaha clinic, 1888-92: v28-date
also pub. in Western med. review, 1896-date.)
- New Hampshire—Health, State board of. Annual repts.
M 11: 1892.
- New Hampshire med. soc. Transac. M 82-88, 91-99, 100,
102-03, 104-07, 110-12: 1872-78, '81-91, '93-
94, '95-98, 1901-02. (1888-89 were both num-
bered v98.)
- New Jersey—Health, State board of. Annual rep'ts, and Rep't
of the Bur. of vital statistics. U 23-date: 1899
-date. (Rep'ts of the Bur. of vital statist. com-
menced 1880/1.)
- New Jersey med. soc. Transac. M 1-52, 109-16-117-25,
128-29, 131, 134-37: 1807-58, '75-91, '94-95,
'97, 1900-03.
- New preparations. *See* Therapeutic gazette.
- New York (city)—Health, Board of. Annual rept.
M 2: 1871/2.
- Charities, State board of. Annual rept.
U 16-22, 31-date: 1883-88, '97-date.
- New York (state)—Health, Board of. Annual rept. U 3-
5, 8, 11-15, 17-20: 1882-84, '87, '90-94, '96-99.
- New York acad. of med. Transac. M Ser.2: v1-7, 9-11
and semi-centen.: 1871-91, '93-95, '96-1901. U
Ser.2: v8: 1892.
- New York acad. of sci. Annals.
U 12*-13-14*: 1899-1902.
- New York charity organization soc. Annual rept.
U 20-21: 1902-03.
- New York med. abstract. F 3*: 1883.

- New York med. jour. and Phila. med. jour. consolidated. M 13—25, 57—58, 60, 62*, 65*—67, 71*—72*, 78*, 81*: 1871—77, '93, '94, '95, '97—98, 1900, '03, '05. (v34—36 named New York med. jour. and obstet. review. v37—77 named New York med. jour. Consolidated after Jun. 13, 1903.)
- New York med. times. *See* Med. times (N. Y.).
- New York microscop. soc. Jour. W 3—date: 1887—date.
- New York post-graduate med. school and hosp. *See* Post-graduate.
- New York state eclectic med. soc. Transac. M 10, 15: 1872, '77.
- New York state jour. of med.: offic. organ of the N. Y. state med. assoc. M 1—date: 1901—date. (For predecessor, see N. Y. state med. assoc. Transac.)
- New York state med. assoc. Transac. M 1—16: 1884—99. (For continuation, see N. Y. state jour. of med.)
- New York state med. soc. Transac. M 44, 51—65, 77, 79, 85, 87—88, 91—98: 1851, '58—72, '83, '85, '91, '93—94, '97—1904.
- Normentafeln zur entwicklungsgeschichte der wirbelthiere. Z 1—5: 1897—1905.
- North Amer. medico-chirurg. review. M 2: 1858. (Formed by consolidation of Med. exam. (Phila.) with Louisville review.)
- North Carolina state med. soc. Transac. M 19, 21, 23, 33, 36—38, 40—41, 43—44, 47: 1872, '74, '76, '86, '89—91, '93—94, '96—97, 1900.
- North Dakota med. soc. Transac. M 12—13, 16: 1899—1900, '03.
- Nova Scotian inst. of sci., Halifax. Proceed. and transac. U 2*, 5*—6*—7*—10—11*: 1869—70, '78—1903.
- Oberhessische gesellschaft für natur- u. heilkunde, Giessen. Bericht. U 27—28, 30—34: 1890—92, '95—1905.
- Ohio—Charities, Board of. Annual rept. U 1—14—15—16—17, 21—22—23, 25: 1867—92, '96—98, 1900.
- Ohio naturalist. W 1—date: 1900—date. (Formerly named O. S. U. naturalist.)

- Ohio state med. soc. Transac. M 14, 17, 26, 31, 38, 43—46, 50—51, 53—54, 56: 1859, '62, '71, '76, '83, '88—91, '95—96, '98—99, 1901.
- Omaha clinic. M 1—5: 1888—92. (Merged in Chicago clinic, 189—. Contains Proceed. of the Neb. state med. soc., 1888—92.)
- Ontario—Health, Provincial board of. Annual repts. U 16, 20: 1897, 1901.
- Oregon—Health, State board of. Bul. M nos.1—2: 1903.
- Oregon state med. soc. Proceed. M 7, 11—12, 15—22: 1880, '84—85, '88—95.
- Orleans Parish med. soc., New Orleans. Proceed. M 10*: 1902.
- Österreichische monatschrift für thierheilkunde u. Revue für thierheilkunde u. thierzucht. F 19—21: 1894—96.
- Österreichische vierteljahrsschrift. *See* Österreichische zeitschrift f. wissenschaftliche veterinärkunde.
- Österreichische zeitschrift f. wissenschaftliche veterinärkunde. F 1—64; n.s. 1—3: 1851—85; n.s. '87—89. Index, 1—60. (VI—18 named Vierteljahrsschrift f. wissenschaftliche veterinärkunde. v19—64 named Österreichische vierteljahrsschrift f. wissensch. veterinärkunde. No more pub. *See* Zeitschrift f. thiermed.)
- Pacific med. jour. U 46*—47*—48*—49—date: 1903—date.
- Pacific med. record. *See* Med. sentinel.
- Pathological soc. of Phila. Proceed. W 4—date: 1901—date.
- Pediatrics. M 1*—5*—6—7—10*—11—16*: 1896—1904.
- Pennsylvania—Charities, State board of. Annual rept. U 21: 1890.
- Health and vital statistics, State board of. Annual rept. M 2—3, 5—6, 8—10, 16—17: 1886—87, '89—90, '92—94, 1900—01. U 5: 1889.
- Pennsylvania hosp., Phila.—Ayer clinical lab. Bul. U 1*: 1905.
- Pennsylvania med. soc. Transac. M 4, 8, 10, 23, 30—41: 1851, '55, '57, '72, '80—91.
- Philadelphia, Acad. of nat. sci. *See* Acad. of nat. sci., Phila.

- Philadelphia med. jour. M 3—6, 10: 1899—1900, '02.
 Philadelphia county med. soc. Proceed.
 M 21*—22*—23—24*—25—26*: 1900—05.
 Philadelphia med. jour. M 1*, 7*—8*—9*, 11*: 1898, 1901—03. (After Jun. 13, 1903, consolidated with N. Y. med. jour.)
 Philadelphia med. times. M 5—6, 16—18: 1874—76, '85—88. (VI named Med. times. In 1885, absorbed the Med. chronicle. After Apr. 15, 1889, united with Med. register, forming Times and register.)
 Philadelphia patholog. soc. *See* Patholog. soc. of Phila.
 Philosophical soc. of Washington. Bul. U 13—14—date: 1895—date. (VI—date also pub. in Smithson. inst. Misc. coll.)
 Physical education. U 3—4: 1894—96.
 Physical training conf., Boston, 1889. Rep't of papers and discussions. U.
 Physician and surgeon (Ann Arbor). M 15*—16—20*: 1893—98. U 27—date: 1905—date.
 Physician's magazine. F 1*: 1885.
 Popular science; or, Popular sci. news. U 30—36: 1896—1902. (No more pub. Merged in Amer. inventor, Jan. 1903. VI—17 named Boston jour. of chem.)
 Popular sci. monthly. U 1—date: 1872—date. Index, 1—40.
 Popular sci. review (London). U 1—18: 1862—79.
 Porfirio Diaz, Instituto cientif. y lit. *See* Instituto cientif. y lit. "Porfirio Diaz."
 Post-graduate. M 16—17—20*—21*: 1901—06. (VI—2 named Quarter. bul. of the Clin. soc. of the N. Y. post-grad. school and hosp.) F 1*: 1885.
 Postal microscop. soc., London. *See* Jour. of microscopy and nat. sci.
 Practical med. series of yearbooks: v9, Physiol., pathol., bacteriol. U 1902—03, '05.
 Princeton university. Contrib. to psychol. U 1—4*: 1895—1903.
 Progressive medicine. M 1*—2*—3*—4, 6: 1899—1903, '04.
 Psychological review. U 1—date: 1894—date.

- Public health and marine hosp. service. *See* U. S.—Public health and marine hosp. service.
- Quarterly compendium of med. sci. M Ser.1: vi—2; ser. 2: v4, 6—7, 9—12; ser.3: vi, 3, 6; ser.4: vi—3: 1868; '75, '76—77, '78—79; '80, '81, '82; '83—85. (Ser. 1—3 named Half-yearly compend. of med. sci.)
- Quarterly epitome of practical med. and surg...Amer. supp. to Braithwaite's Retrospect. M 1*: 1880.
- Quarterly jour. of microscop. sci. Z 1—8; n.s. 1—date: 1853—date. Index, 1853—88.
- Quebec (Province)—Health, Board of. Annual rept. U 1—6: 1895—1900.
- Quekett microscop. club, London. Jour. W Ser.2: v5—date: 1893—date.
- Ranking's abstract. *See* Half-yearly abstract.
- Reading (Pa.)—Health, Board of. Annual repts. M 30: 1902.
- Recueil de médecine vétérinaire. F Ser.7: v4—10; ser.8: v3—4: 1887—93, '96—97.
- Rennes—Université. Travaux scient. W 1—date: 1902—date. U Same.
- Retrospect of practical med. and surg...Braithwaite; Amer. ed. M 27—28, 44—45, 51, 53, 56, 66: 1853—54, '62, '65, '66, '68, '73.
- Supplement. *See* Quarterly epitome
- Revue für thierheilkunde u. thierzucht. *See* Österreichische monatsschrift für thierheilkunde.
- Revue suisse de zoologie et Annales du Musée d'hist. nat. de Genève. W 1—date: 1893—date.
- Rhode Island—Charities and correc., Board of. Annual rept. U 1—19: 1869—87.
- Health, State board of. Monthly bul. U 4*—5*—6—7*—8*—9*—10*—11*, 13*—14*: 1892—99, 1901—02.
- Rhode Island med. soc. Transac. M 65—67, 69—77, 79, 82—83, 86—87, 90—92: 1876—78, '80—88, '90, '93—94, '97—98, 1901—03.

- Richmond and Louisville med. jour. *See* Gaillard's med. jour.
- Rockefeller inst. for med. research, N. Y. Studies.
U 1—date: 1904—date.
- Rocky Mountain med. times. *See* Denver med. times.
- Royal microscop. soc. *See* Jour. of the Royal microscop. soc.
- Royal soc. for the prevention of cruelty to animals, London.
Annual rept. M 77: 1900.
- Royal soc. of Edinburgh. Proceed. U 15—date: 1887—date.
- Royal soc. of London. Philosoph. transac.
U 1—date: 1665—date.
- Proceed. U 46—date: 1889—date.
- Royal soc. of New South Wales, Sydney. Jour. and proceed.
W 33—date: 1899—date.
- Royal soc. of Victoria, Melbourne. Proceed.
W n.s. 5—date: 1893—date.
- St. Louis, Acad. of sci. *See* Acad. of sci., St. Louis.
- St. Louis courier of med. M 9—10—11*—12, 27*—28—30*
—31—33: 1883—84, 1902—05. (VI—4 named St.
Louis courier of med. and collat. sci.)
- St. Louis med. and surg. jour. M 16*—17*—18*—19, 76*—
77—78—80*—81—83—85*—86—89*: 1858—61, '99
—1905.
- Sajous' Annual. *See* Annual of the universal med. sci.
- Sammlung klinischer vorträge. F 1—5: 1870—78.
- San Francisco microscop. soc. Transac. M pt.1: 1893.
- Sanitarian. M 1—7, 10—12: 1873—79, '82—84. U 32: 1894.
- Sassari, Regia università degli studi. Studi sassaresi.
U Anno 1*—2*—3—4*: 1901—04.
- Saxony—Königliche com'n f. d. veterinärwesen. Bericht über
das veterinärwesen.
F 1—20, 22—27: 1856—75, '77—84.
- Schmidt's jahrbücher der in- u. ausländischen gesam. med.
U 281—date: 1904—date. (Continuation of Jahr-
bücher der in- u. ausländischen gesam. med.)
- Schriften der Gesellschaft für psycholog. forschung.
U hft. 1—5, 7—10, 12: 1890—93, '94—97, 1900.

- Schweizerische naturforschende gesellschaft. Bern. Verhandlungen. U 75, 77, 79—81, 83—84, 87: 1892, '94, '96—98, 1900—01, '04. (Same in French and Ital. languages, as follows:)
- Société helvétique des sci. nat. Actes.
U 76, 78, 82, 85: 1893, '95, '99, 1902.
- Comptes rendus. U 75—86: 1892—1903. (Archives des sci. physiq. et nat., Genève.)
- Società elvetica di sci. nat. Atti. U 86: 1903.
- Science (N. Y.) U 1—23; n.s. 1—date: 1883—date.
- Science progress. U 4—7: 1895—98.
- Sevčenko-gesellschaft der wissenschaften, Lemberg. Chronik.
U 1*: 1900.
- Siebenbürgischer verein für naturwissenschaften, Hermannstadt. Verhandlungen u. mittheilungen.
U 42—51—52—53: 1892—1903.
- Silliman's journal. See Amer. jour. of sci.
- Smithsonian inst. Annual rept. U 8—date: 1853—date.
Z 16, 23, 27, 32, 34, 36—37, 39*, 53—54, 57: 1861, '68, '72, '77, '79, '81—82, '84, '98—99, 1902.
- Contrib. to knowledge. U 2*—3*—4—6—7*—8—9*—10—14—15*—16, 18—date.
- Miscel. coll. U 1—27, 30—33—34*—35*—36—37*—38*—39*, 41—43—44*—45—46—47—48*—49*—date.
- National museum. See United States nat. museum.
- Sociedad científica "Antonio Alzate," Mexico. Memorias y revista. U 4—6, 10*—11*, 13*—14*—15*—16*—17—18*—19*—20—date: 1890—93, '97—98, '98—date.
- Sociedad científica Argentina, Buenos Ayres. Anales.
U 49*—60*: 1900—05.
- Società elvetica di sci. nat. See Schweizerische naturforschende gesellschaft, Bern.
- Società zoologica ital., Rome. Bolletino. W Ser.1—date: 1892—date. (Ser.1, 1892—99, named Bolletino della Società romana per gli studi zoologica.)

- Societas pro fauna et flora fennica, Helsingfors. Acta.
 W 14—23, 25—date: 1897—02, '03—date.
 ——— Meddelandan. W 23—date: 1898—date.
 Société belge de microscopie, Brussels. Annales.
 W 21—date: 1897—date.
 ——— Bul. W 21—25: 1894/5—98/9.
 Société de biologie, Paris. Comptes rendus hebdomadaires des séances.
 W 54—date: 1902—date.
 Société des sci. nat., Neuchâtel. Bul.
 U 20—23—24—25—26—27—28—29: 1891—1901.
 Société helvétique des sci. nat. *See* Schweizerische naturforschende gesellschaft, Bern.
 Société impériale des naturalistes de Moscou. Bul. (in Russian).
 W n.s. 15—date: 1901—date.
 Société scientifique de Chevtchenko à Leopold. *See* Sevčenko-gesellschaft der wissenschaften.
 Société scientifique et méd. de l'Ouest, Rennes. Bul.
 W 1—date: 1892—date.
 Société zoologique de France, Paris. Bul.
 W 1—date: 1876—date.
 ——— Causeries scientifiques. W 1—date: 1900—date.
 ——— Mémoires. W 1—date: 1888—date.
 Society for experim. biol. and med., N. Y. Proceed.
 W 1—date: 1903—date.
 Society for psychical research, London. Proceed.
 U 1—date: 1892—date.
 ——— Journal. *See* Journal of the Society for psych. research.
 South Carolina med. soc. Transac.
 M 22—24, 27—35, 37—39, 41, 44, 46, 49, 50: 1872—74, '77—85, '87—89, '91, '94, '96, '99—1900.
 South Dakota state med. soc. Transac.
 M 9—10, 12—13: 1890—91, '94—95.
 Southern California practitioner.
 M 14*—15*—16—17—18*—19—20*: 1899—1905.
 Southern med. and Gaillard's med. jour. consolidated. M 11*—12*: 1904—05. (Continues Gaillard's med. jour.)
 Springfield (Mass.) museum of nat. hist. Bul. U 1*: 1904.

- Stanford university. *See* Leland Stanford junior university.
- Stethoscope and Virginia med. gazette. M 2: 1852. (In 1856, united with Virginia med. and surg. jour., forming Virginia med. jour.)
- Tennessee med. soc. Transac.
M 52—56—58, 60—62, 64—66, 68, 70—71: 1885—91, '93—95, '97—99, 1901, '03—04.
- Texas acad. of sci., Austin. Transac. U 1*: 1893, '96.
- Texas state med. assoc. Transac.
M 8—9, 15—17, 19—23, 25—28, 31—35: 1876—77, '83—85, '87—91, '93—96, '99—1903.
- Therapeutic gazette. M 4*—5*—6—7*—8—10—11—13—14—19, 21—27*—28—29*: 1881—95, '97—1905. (VI—3 named New preparations.)
- Tierreich, Das; hrsg. v. d. Deutschen zoolog. gesellschaft (series).
Z 1—date: 1897—date.
- Tijdschrift voor Nederlandsch-Indië. *See* Natuurkundig tijdschrift voor Nederlandsch-Indië.
- Times and register (Phila.) U 20—24, 33—date: 1889—92, 1905—date. (Formed, Apr. 27, 1889, by union of Med. register with Phila. med. times. In July, 1889, it absorbed Polyclinic, Amer. med. digest, and Dietetic gazette.)
- Tokyo, Imperial university—Coll. of sci. Jour.
W 80—date: 1894—date. (Zoolog. nos. only.)
- Toronto, University. Studies: Psychol. ser.
U 1—date: 1900—date.
- Tri-state med. jour. *See* Interstate med. jour.
- Tri-state med. soc. *See* Mississippi Valley med. soc.
- Turin, Regia università degli studi—Museo di zool. e di anat. comparata. Bolletino.
U 8—date: 1893—date. Index, 1—10.
- U. S.—Agric., Dep't of—Div. of entomol. Insect life.
Z 1—7 and Gen. index: 1888—95.
- Animal industry, Bur. of. Annual rept.
F 1—9, 12—date: 1884—92, '95—date. U 1—13, 16—19: 1884—98, '99—1902.
- ————— Bul.
F 1—25, 40—date: 1893—99, 1902—date.

- Fish and fisheries, Com'n of. Bul.
Z 1—date: 1881—date.
- ————— Repts.
Z 1, 3—date: 1871/2, '73/4—date.
- Health, National board of. Annual repts.
U 1—2, 4: 1879—80, '82.
- Marine hosp. service—Supervising surg.-gen. Annual rept. U 24—30: 1895—1901. M 26, 31—32: 1897, 1902—03.
- ————— Weekly abstract of sanitary repts.
U 5: 1890.
- Pub. health and marine hosp. service. Conference. *See* Conference of the state and terr. health officers with the U. S. Pub. health and marine hosp. service.
- ————— Pub. health repts.
U 17—date: 1902—date.
- ————— Hygienic lab. Bul.
U nos. 8, 13, 16—24.
- Yellow fever inst. Bul.
U no. 13: 1903. M no. 14: 1904.
- United States national museum. Bul. U 1—12, 14—15, 17—18, 20—25*—26—27, 29—32, 35, 38—39*—40—46—47*—48, 50*—51—52—date: 1875—78, '79, '80, '83—84, '85—87, '89—95, 1901—date. Z 1, 19, 28, 33—34, 36—37, 43, 45—46—47*, 49: 1875—96.
- Proceed.
U 12—date: 1889—date: Z 2—10: 1879—87.
- United States vet. med. assoc. *See* Amer. vet. med. assoc.
- Universities, state. *See* name of state.
- Utah state med. soc. Proceed. M 1—2: 1895—96.
- Vassar Brothers inst., Poughkeepsie—Sci. sec. Transac.
U 5—7: 1887—96.
- Verein für naturwissenschaft, Brunswick. Jahresbericht.
U 5—6, 8—11, 13: 1886/7—88/9, '91/2—98/9, 1901/2—02/3.
- Vermont med. soc. Transac. M 55—59, 70—74, 76—81, 84—88: 1869—73, '83—87, '89—94, '97—1901.

- Veterinarian (London). F 1—30: 1828—57. Index, 1—6.
(In Jan. 1903, merged with Jour. of compar. pathol.
and therap.)
- Veterinary blue book. F 1: 1898.
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EDITORIAL

The Quarter Centennial of the Omaha Medical College will be celebrated at the coming commencement of the College of Medicine. The celebration will extend over two days. Wednesday, May 23, will be Alumni day. The morning will be devoted to special alumni clinics at the Methodist and County hospitals, from 8:00 to 10:00 and from 10:00 to 12:00. The alumni meeting will be held at the college building at 2:00 P.M. After a short business session Dr. A. S. von Mansfelde, of Ashland, will deliver an address on the "History of Medicine in Nebraska"; Dr. W. F. Milroy, of Omaha, on the "History of the College of Medicine of the University of Nebraska"; Dr. F. D. Haldeman, of Ord, on the "Alumni of the College of Medicine of the University of Nebraska." The evening will be devoted to a theater party for the alumni. On Commencement day, Thursday, May 24, clinics will be held in the morning at Immanuel and Swedish hospitals, and the annual alumni luncheon will be held at the Calumet from 2:00 to 4:00 P.M. Tickets for the luncheon may be had at fifty cents each. It will be necessary to know in ad-

vance those who are to be present, and alumni are requested to notify some member of the committee, Drs. A. C. Stokes, E. D. Cummins, Thomas Truelsen, C. J. Miller. The graduation exercises will be held at 8:00 P.M. in the Congregational church, corner 19th and Davenport streets. The commencement address will be delivered by Dr. James Carroll, of Washington, D. C., on "The Microscope in Medicine." Following the graduation exercises a general reception will be held for the speaker, members of the faculty, alumni, graduates, and their immediate friends. It is hoped that the attendance of the alumni on this occasion may be large and the various attractions offered in connection with the celebration of the Quarter Centennial will undoubtedly appeal to all.

COLLEGE NOTES

The commencement address of the College of Medicine will be delivered this year by Dr. James Carroll of the Army Medical Museum, Washington, D. C. It will be remembered that Dr. Carroll was one of the famous Yellow Fever Commission No. 1, consisting of Drs. Reed, Carroll, Agramonte, and Lazear, which was successful in demonstrating the transmission of yellow fever by the mosquito, and thus in freeing Havana from this disease. Three of these men, including Dr. Carroll, contracted the disease, and one fell a victim to it. Dr. Carroll's contributions to the literature of medicine are regarded as among the most valuable, and in his own field he is entitled to speak as an authority without fear of contradiction. On the platform Dr. Carroll is a clear and forceful speaker, a man of quiet but attractive personality, and his coming to Nebraska to give the commencement address at the Quarter Centennial of the College is an opportunity which will be greatly appreciated by the alumni and friends of the institution. Dr. Carroll's subject will be "The Microscope in its Relation to Medicine."

Dr. F. D. Haldeman, of Ord, Neb., has been traveling with his wife and son on the Pacific Coast since the first of the year. Their only daughter, Irma, died of septic infection of the gall bladder and pancreas last December. Dr. Haldeman was sixty miles south of San Francisco at the time of the earthquake and arrived in Oakland the next day in time to see the great fire on Nob Hill. He afterwards spent two days viewing the ruins and in the hospital quarters at the Presidio.

Dr. Thos. Truelsen of the Omaha faculty expects to go abroad about September 15 for one year. He will spend most of his time in Vienna studying medical and surgical diagnosis and pathology.

Dr. A. P. Overgaard, '00, of Fremont, was married to Miss Gertrude Fleming of that city on December 25, 1905. Last fall he was reelected coroner of Dodge county. He has also been secretary of the Dodge County Medical Society since its organization in 1901.

Dr. L. R. Markley, '83, has been in active practice in Bellingham, Wash., since 1890. He is first vice-president of the Washington state association.

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