

WOOD LIBRARY-MUSEUM OF ANESTHESIOLOGY

THE RALPH M. WATERS COLLECTION

Finding Aid

Prepared by J. Robins, Collections Supervisor
Edited by Sara Mercurio, Archives Assistant



Revised May 20th, 2008 (JR)
Revised March 24, 2023 (JR)
Revised February 23, 2026 (SLM)

Biographical Note

Ralph Milton Waters was born on October 9, 1883, in North Bloomfield, Trumbull County, Ohio. His parents were Darwin Whiting Waters and Janette Martha Waters (nee Scott).

In 1912 he married Louise Diehl, of Cleveland, Ohio. They had four children: Elva Jane, born 1914, Barbara, born 1916, Darwin Diehl, born 1920, and John Calvin, born 1922. Darwin was married to Marybelle Waters, who was born in 1921, and together they had a son, Michael. After Marybelle's death in 1970, Darwin was remarried to Mitzi Waters in 1971. Lou Waters passed away on February 12th, 1975. Ralph Waters died on December 19th, 1979.

After graduating from Grand River Institute, a preparatory school, in 1901, Waters moved to Cleveland. He entered Adelbert College of Western Reserve University in 1903, and earned his BA in 1907. Shortly thereafter he entered the University's medical school, earning his MD in 1912. He began general practice early in 1913 in Sioux City, Iowa. He attended his first anesthesia meeting in 1915, but remained in general practice until 1916. Thereafter, he limited his practice to anesthesia. He maintained a downtown anesthesia clinic in addition to his practice until 1923. In that year, he moved to Kansas City, Missouri, to take over a similar clinic there, originated by Dr. Morris Clark.

In the summer of 1926, Waters spent three months studying regional anesthesia at the Mayo Clinic, on the invitation of Dr. John S. Lundy. In February 1927, he joined the medical faculty of the University of Wisconsin. His original charge was to direct clinical administration of anesthetics at the University Hospital, but grew to include joint research projects, and clinical teaching of graduate students.

While at the University of Wisconsin, Waters conducted studies of depressant drugs. His collection of reprints on the subject of barbiturates and other agents is extensive. In 1932, Waters introduced the clinical use of the new inhalation agent, cyclopropane. Waters continued to study and write about cyclopropane throughout his career, which are documented in his notes and publications.

In large part, the development of academic anesthesia training in the United States is directly due to the work of Dr. Waters. He became the first professor of anesthesiology at University of Wisconsin and founded the first program for its study as a distinct field of medicine. He was revered by many of his residents, and group of them began to call themselves "The Aqualumni". Dr. and Mrs. Waters hosted annual reunions of this group at their home from 1937 through 1947. Many of the Aqualumni became eminent in this field, and went on to become founders and Presidents of professional associations. Several of them founded new academic departments in other medical schools, as did many of their own trainees. Among the most notable Aqualumni are F. A. Duncan Alexander, Virginia Apgar, Stuart C. Cullen, Robert D. Dripps, Merel Harmel, Austin Lamont, O. Sidney Orth, Perry P. Volpitto, and Emory A. Rovenstine.

During his years in Sioux City, he experimented with carbon dioxide filtration, and developed the Waters To-and-Fro Carbon Dioxide Absorption Canister, first introduced in 1924. Other notable inventions attributed to Waters and his colleagues are the Waters Airway (1930), Guedel & Waters Cuff (1928), Waters Catheter (1931), and Gale & Waters Tube (1932).

Dr. Waters was a leader in several important medical societies. In 1929, Dr. John Lundy founded the Anesthetists Travel Club (ATC), and Waters became a charter member. This was a small group of leaders whose aim was to promote continuing education for practitioners in cities around the country. Waters served as President of the American Society of Anesthesiologists in 1945. He received the Henry Hill Hickman medal 1944 from the Associated Anaesthetists of Great Britain and Ireland. That medal is

part of this collection. In 1946 he received the highest honor bestowed by the ASA, the Distinguished Service Award. He also received the Order of the Vasa (1947), an honorary degree from Northwestern University (1951), and an honorary degree from Western Reserve University (1957). Waters retired from the practice of anesthesia on December 31, 1948, at the age of 65, but maintained an active interest in the field.

Scope and Content Note

The Ralph M. Waters Papers documents the professional life of Ralph M. Waters, an important American anesthesiologist and educator. The collection spans the years 1919-1996, with the bulk of material concentrated from 1930 to 1978. The collection is in English and arranged into five series: Personal, Professional, and Business records, Teaching Materials and Alumni Relationships, Correspondence, Writings and Publications, Research Materials, Photographs, and Artifacts.

There are numerous important lacunae in this collection. The bulk of this collection consists of reprints and other ephemera, such as news clippings and product literature. There are also a few typescripts of reports, articles and presentations; some if not all of these were copied from publications. There is a small amount of correspondence and other personal papers. It contains no primary materials relating to Dr. Waters' research on any subject. It contains no mention of the Waters Airway, and virtually nothing on the subject of cyclopropane. There is nothing at all about his military service in WWI, nor his work for the Anesthesia Research Council. There is also very little correspondence related to his professional work. The collection contains little primary material relating to his participation in the American Society of Anesthesiologists or other professional societies.

Scope and Content Note by Series

Personal, Professional, and Business Records

This series contains tax records and receipts, newspaper clippings, articles, and some posthumous items, including news clippings of Waters' obituary and memorial publications which may have been added to the collection after its acquisition. It contains records of Dr. Waters' involvement in professional organizations, including various certificates of membership earned by Dr. Waters. It also contains materials related to honorary degrees and awards received by Dr. Waters. This series spans the years 1919-1977, with the bulk of material concentrated from 1930 to 1978.

Teaching Materials and Alumni Relationships

This series contains Dr. Waters' teaching materials, especially from his time as professor of anesthesiology at University of Wisconsin, including hand-outs, course notes, and lecture notes. Some materials from this series related to Dr. Waters' clinical practice at the University of Wisconsin have been restricted due to their containing medically sensitive or identifying information, but their original location has been noted within the restricted list of items. It also contains miscellaneous lectures presented by Dr. Waters, many at the meetings of various professional organizations or events. Many of these lectures are undated or incomplete. This series also contains Waters' records related to alumni of his programs, the Aqualumni, including correspondence, materials from the Aqualumni reunions, and some publications. This series originally contained some photographs which have been moved to the photograph series with their original location noted. This series spans the years 1930-1951, with the bulk of material concentrated from 1935 to 1945.

Correspondence

This series contains correspondence between Waters and his colleagues, members of his family, and others. This series spans the years 1929-1980, with the bulk of material concentrated from 1930 to 1978. Particularly well documented within this collection is the correspondence between Waters and Dr. Geoffrey Kaye. Also of note is the collection of correspondence between Ralph and Lu Waters and their children, particularly with his son, Darwin Waters, and Darwin's first and second wife Marybelle Waters and Mitzi Waters.

The WLM also holds duplications and digital copies from collections held by other institutions related to Dr. Waters. Waters corresponded frequently with the company's founder, Dr. Richard von Foregger, about carbon dioxide filtration and other matters. Also held are correspondence with Arthur Guedel, B.C. Leech, John Lundy, and many of his students. Duplications of this correspondence are contained within the WLM Research Collection.

Waters Writings and Publications

This series materials related to materials published by Dr. Waters, including monographs, articles, typescripts, manuscripts, drafts, notes, and other research materials. This series also contains reprints of articles by Waters, and other pieces of writings by him such as the introductions to edited volumes. Many of these materials are photocopies and were possible assembled after the acquisition of Waters' original publication materials.

Research Materials

This series contains documents Dr. Waters' research activities, in particular documenting his interest in barbiturates and other depressants. It contains reprints, typescripts, and some correspondence. This series was originally a part of the archives of the University of Wisconsin Department of Anesthesiology.

Miscellaneous

This series contains assorted materials collected by Dr. Waters, including materials from conferences that Waters may have attended, many of which are signed and annotated by Dr. Waters. There are some notes and minutes from meetings of the American Society of Anesthesiology. This series also contains articles and reprints, many of which contain inscriptions by the authors to Dr. Waters. There are also newsclippings, loose notes, and other personal materials.

Photographs

This series contains photographs of Dr. Waters, his colleagues, his students, and some clinical settings. Some materials have been removed from other series for storage and preservation, which is noted in their folder title.

Arrangement

This collection is arranged chronologically by exact or approximate date of creation. Correspondence is arranged alphabetically and chronologically thereunder.

Acquisition Information

Accessions:

1964.8.24.1
1967.5.31.2
1990.7.30.2
1995.9.25.1
1998.6.10.1
2001.7.17.1
2002.6.6.1
2002.11.4.2

Donors:

Torsten Gordh, M. D.
Robert A. Strickland, M. D.
Ralph M. Waters, M. D.
Darwin Waters, M. D.
Bernard Wetchler, M. D.

The entire Research Materials Series in this collection was transferred from the UW Department of Anesthesiology to WLM by Dr. Betty Bamforth.

A scrapbook of the Aqualumni reunions was transferred on 'permanent loan' from the UW Department of Anesthesiology to the WLM; this item is accession number IL 1983.03.4.

Language of Materials

Materials are primarily in English. Some materials are in German, Portuguese, and Spanish.

Access and Restrictions

Materials with sensitive or identifying medical information have been restricted

Extent

44 Containers

23.5 Linear ft

Related collections**Dr. Paul M. Wood Collection (SN-500001)**

This collection contains some correspondence between Dr. Waters and Dr. Wood, who was Waters' colleague.

Ralph M. Waters Research Collection (SN-500023.1)

This collection contains various materials related to the life and legacy of Dr. Water's. It mostly consists of photocopies of correspondence held by the WLM and other institutions, including correspondence with

members of his family, Richard Foregger, Arthur E. Guedel, B.C. Leech, John Lundy, and other students and colleagues.

Waters Conference Archives (SN-500024)

This collection contains materials Ralph M. Waters, MD and Professional in Anesthesiology: A Celebration of 75 Years” a conference held at the University of Wisconsin-Madison on June 6-8 2002. This conference commemorated the arrival of Dr. Waters at the University, where he would start the first department of Anesthesia. This collection contains conference proceedings, publications, and financial materials.

Arthur E. Guedel MS Collection (SN-500066)

This collection contains photocopies of correspondence between Dr. Waters and Arthur E. Guedel, copied from materials held by the Guedel Memorial Center. It does not contain originals.

Memorabilia and Artifacts

Waters Mask Collection

Dr. Waters donated a collection of 23 masks, a laryngoscope, a vaporizer, and an IBM keypunch to the WLM in 1964. These objects are currently housed within the museum collection.

Other artifacts

University of Wisconsin Alpha Omega Alpha lavalier.

Irving S. Cutter Medal of the Phi Rho Sigma fraternity. Presented to Dr. Waters “for his outstanding contributions to the arts and science of medicine”, September, 1946.

Medallion: World Federation of Societies of Anesthesiologists, 3rd World Conference, Sao Paulo, Brazil, 1964.

Tube-sizing ruler stamped “R. M. Waters, Oct. 2, 1933”. Given by Dr. Waters to Dr. Kaye. Subsequently given by Dr. William Lundberg (1939-1982) to WLM in 1984.

Collections at Other Institutions

The WLM currently holds photocopies of materials from other institutions created by Dr. Waters within the Research Collection. These Collections are listed below.

Waters Correspondence, from University of Wisconsin Archives, Madison, Wisconsin

An important, related collection is the archival records of the Department of Anesthesiology in the University Archives of the University of Wisconsin, Madison, WI. In that collection, the records of Dr. Waters’ tenure constitute Series # 12/4/3. The WLM Research collection contains photocopies made from a few, selected files in that Series.

Correspondence with Arthur Guedel, from Arthur E. Guedel Memorial Anesthesia Center, San Francisco, California.

Processing History

Processed by Judith A. Robins, C.A., Collections Supervisor: August 1999, November 2001, November 2002

Processed by Sara L. Mercurio, Library and Archives Assistant: February 2026

Box 1

FF 1 Finding aid

Series: Personal, professional, and business records (See Box 4, Legal Size)

Subseries: General practice, Anesthesia Clinic records, and professional certificates

FF Sioux City, Iowa, 1919-1926

FF Kansas City, Missouri, 1925-1926

FF Application to the Board of Medical Examiners of the State of Florida , 1939

FF Certificates from professional organizations, 1934-1960

Subseries: Certificates, Honors, and Awards

FF Henry Hill Hickman Medal, 1944

FF Order of the Vasa, 1947

FF Centennial Award for the Northwest Territory, Northwestern University program, 1951

FF Honorary Degree and Commencement, programs and clippings, Western Reserve University, 1957
Contains photocopies

FF Honorary Degree and Commencement, letters, Western Reserve University, 1957

FF Citation of Merit Award, Academy of Anesthesia, 1976-1977

FF University of Wisconsin Commencement, Committee for Honorary Degrees, press release, 1951

Subseries: Miscellaneous

FF Poem honoring Dr. Waters, signed by colleagues, July 1st, 1944

- FF Misc. Biographies, news clipping from Waters' retirement, news clippings Waters' of obituary, approx. 1949-1981
Contains photocopies
- FF Miscellaneous certificates, correspondence, notes, 1925-1945
Contains photocopies

Series: Teaching Materials and Alumni Relationships

Subseries: University of Wisconsin medical course lectures and handouts

- FF Medical course lectures (1930)
- FF Medical course lectures (1931)
- FF Medical course lectures (1933—1934)
- FF Medical course lectures (1935)
- FF Medical course lectures (1936)
- FF Medical course lectures (1937)
- FF Medical course lectures (1938)
- FF Medical course lectures (1939)
- FF Medical course lectures (1940)
- FF Medical course handouts (1941)
Contains photocopies
- FF Medical course lecture, handout, final exam (1942)
- FF Medical course lectures (1943)
- FF Medical course handouts (1943)
Contains photocopies
- FF Medical course handouts (1944)
Contains photocopies
- FF Medical course lectures (1945)
- FF Medical course handouts (1945)
Contains photocopies
- FF Medical course handouts (1946)
Contains photocopies

FF	Medical course lectures	(1948)
FF	Medical course handouts Contains photocopies	(1948)
FF	Medical course handouts	(1949, copy 1)
FF	Medical course handouts Contains photocopies	(1949, copy 2)
FF	Medical course handouts Contains photocopies	(1949, copy 3)

Subseries: University of Wisconsin nursing course lectures

FF	Nursing course lectures	(1935)
FF	Nursing course lectures	(1936)
FF	Nursing course lectures	(1937)
FF	Nursing course lectures	(1938)
FF	Nursing course lectures	(1939)
FF	Nursing course lectures	(1940)
FF	Nursing course lectures	(1941)
FF	Nursing course lectures	(1942)
FF	Nursing course lectures	(1943)
FF	Nursing course lectures	(1944)
FF	Nursing course lectures	(1945)
FF	Nursing course lectures	(1947)
FF	Nursing course lectures	(1948)
FF	Nursing course lectures	(1949)
FF	Nursing course lectures	(ND)
FF	Nursing course lectures	(ND)

Subseries: Miscellaneous Lectures and Notes

FF	Lecture notes 1935
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"O2 Therapy in P. O. Cases & Surg. Emergencies. N. S. Chicago Med. Soc. Jan. '35."
(6 typed cards)

"Nov. '35." (2 holograph cards)

FF Lecture notes 1938

"Am. Soc. of Anes. Philadelphia, Pa. 12/12/38." (2 typed cards)

FF Lecture notes 1939

"Carbon Dioxide. Read: Milwaukee 5-24-39." (3 typed cards)

"Explosion notes written May '39 but not delivered as discussion of Woodbridge et. al. St. Louis." (5 typed cards and cover sheet)

"Relation of Pain Relief to Pulmonary Mortality. Canton – December 14, 1939."
(5 typed cards)

FF Lecture notes 1940

"Clinical Problems in Anesthesia. (Generalities to introduce talks by Meek and Seevers at meeting of Sigma Xi, Monday evening, Jan. 15, 1940.)" (11 typed cards)

"Dr. Rovenstine's Staff. 2/12/40. What Is An Anesthetist and Why." (6 typed cards)

"N. Y. Obstet. Soc. Feb 13, 1940. 45 min." (4 typed and holograph cards)

"Milwaukee Soc. of Clin. Surgery. Milwaukee, Wis. 5-28-40." (4 typed cards)

"Cambridge, Mass. Nov. 13, 1940. 4:15 P. M. Treatment Resp. Depress."
(6 typed cards)

"Relation of Anesthesia to Infant Morbidity. Cambridge 11/14/40. 9:30 A.M."
(6 typed cards)

FF Lecture notes 1941

"Racine, Wis. Jan. 15, 1941 (Dr. Kurten)." (7 typed cards)

"Dr. Cole's Class in Sociology. Dec. 18, 1941." (2 typed cards)

"The Service of Anesthesiology in the Modern Hospital. (Detroit, 5/12/41)."
(1 typed card)

"9-2-41. Service of Anes. in Modern Hosp. in O.R." (12 typed cards)

"Sept. 2, 1941. Service of Anesthesiology in the Modern Hospital In O. R."
(6 typed sheets)

- “Sept. 3, 1941. Service of Anesthesiology in a Modern Hospital Outside the O. R.”
(10 typed sheets)
- “Sept. 3, 1941. Service of Anesthesiology in a Modern Hospital Outside the O. R.”
(4 typed pages)
- FF Lecture notes 1942
- “What I used for Wis. Obs. & Gyn. Society. May 15, 1942.”
(2 holograph cards and 1 sheet)
- FF Lecture notes 1943
- “Choice of Drug, Dosage & Technic in Attempts to Relieve Pain. Tues. Jan. 19, 1943, Great Lakes.” (5 typed and holograph cards)
- “3rd Dist. Nurses. ‘Nursing Care of Patients After Op.’ 1/19/43.” (1 holograph card)
- “Madison, Wis. West End Club. 3/16/43. Sleep – Natural and Artificial.”
(4 typed and holograph cards.)
- “Talk to Sigma Sigma. Tuesday, April 13, 1943.” (4 typed cards)
- FF Lecture notes 1945
- “Lecture to 3rd yr. stud. May 1945.” (2 typed and holograph cards)
- FF Misc. Lecture notes ND
- “Lecture Entitled ‘Pain Relief’ By Doctor Fantus of Chicago. An excellent lecture for a mixed group.” (3 typed cards)
- “Inhalation Anesthetic Agents. Phila.” (3 typed cards)
- “Conn. Congress.” (10 typed and holograph cards)
First line: “Pleasure & honor to visit this U. town & meet Connecticut Doctors.”
- [Untitled lecture to nurses or nursing students.] (5 typed cards)
First line: “During this little jaunt into the past....”
- “Barbour’s Seminar. CO2-O2 Anesthesia.” (7 typed and holograph cards)
- [Untitled after-dinner speech.] (7 typed cards)
First line: “Preceptors put on party for us.”
- FF Misc. Lecture notes ND
- “Oklahoma City, Nov. 4. Oxygen Therapy.” (4 typed cards)
First line: “Anaximenes of Miletus, born....”
- “Nov. 4. evening. Progress in Anesthesia.” (2 typed cards)

“Staff. Jan. [27? 37?]”. (7 typed and holograph cards)

First line: “Old Anaxamenes, the Egyptian....”

[Untitled lecture.] (8 typed cards)

First line: “Anaximenes 6th Century B.C.”

“O2 Therapy Technic.” (4 holograph cards)

FF Misc. Lecture notes ND

[Untitled lecture.] (6 holograph cards)

First line: “Gen. 2, 21 ‘And the L. G. caused....”

“Local.” (2 typed cards)

“Oct. 17. Strewler. (AOA Dinner). Specialism & Specialists.” (8 holograph cards)

“Specialism. The Watchword of the Time.” (6 typed and holograph cards)

[Untitled lecture.] (3 typed and holograph cards)

First line: “Cinema.”

“Properties Anes. Drugs.” (3 holograph cards)

FF Misc. Lecture notes ND

“Physical State.” (13 typed cards.)

“Problem of Relief of Pain.” (4 typed cards)

“Morbidity Accompanying the Therapy of Pain. The Cost of Comfort.”
(15 typed and holograph cards)

“Notes on Spinal Anesthesia. By Ralph M. Waters.” (5 typed cards)

[Untitled lecture.] (7 typed cards)

First line: “Apt to forget that ordinary....”

“Pain Relieving Drugs.” (2 typed cards)

FF Misc. Incomplete lecture notes (5 sleeves) ND

FF Misc. Incomplete lecture notes (5 sleeves) ND

FF Misc. Incomplete lecture notes (5 sleeves) ND

FF Misc. Incomplete lecture notes (5 sleeves) ND

FF Misc. lectures and lecture notes ND

Subseries: University of Wisconsin alumni records, correspondence

FF	List of residents Contains photocopies	(ND)
FF	Aqualumni Newsletter	(Volume 3, No. 2 and No. 3, August and December, 1939)
FF	Aqualumni Reunions See Photographs Series	(1937-41, 43-44, 46-48)
FF	Aqualumni Diagram	(ND)
FF	F. A. D. Alexander Contains photocopies	(ND)
FF	Virginia Apgar Contains photocopies	(1936-1951, 2006)
FF	Howard Auscherman	
FF	Simpson S. Burke	(March 6 th , 1945)
FF	William H. Cassels	("Staff Meeting Material")
FF	Ervin N. Chapman	(March 27 th , 1948)
FF	Stuart C. Cullen	(1974)
FF	George H. Finer Contains photocopies	(1945)
FF	Albert E. Flagg	(March 18, 1945)
FF	Noel Gillespie See Photographs Series	(1940-1945?)
FF	Torsten Gordh	(1945, 1975-1980)
FF	Merel Harmel	(April 7, 1945)
FF	Malcolm Hawk?	(1945)
FF	Robert Hingson	(December 14, 1963)
FF	Lucien E. Morris	(1976-1977)
FF	William B. Neff Contains letter from J. Eugene Ruben	(1976-1977)
FF	Bryce Ozanne	(1945)

- FF M. H. Seevers (1945, 1977)
Contains photocopy of obituary
See Photograph Series
- FF Karl Siebecker (1974)
- FF Virgil K. Stoelting (1977, undated)
- FF Ivan Taylor (July 31, 1945)
- FF Clayton P. Wangeman (Statistical Reports of Barnes General Hospital, 1941—1944)
- FF Paul Yordy (1945)

Subseries: Miscellaneous

- FF "Postoperative Nausea and Vomiting: A Review of Recent Literature", by George Harry Hess, A Thesis Submitted for the Degree of Doctor of Medicine, University of Wisconsin, 1936. [Carbon copy of typescript.]
- FF "The Effect of Vinethene, Cyclopropane and Ether on the Kidney As Measured by the Urea Clearance Test", by Richard Earl Marcus, A Thesis Submitted for the Degree of Doctor of Medicine, University of Wisconsin, 1940. [2 copies, typescript]
- FF "Anesthesia in England 1847—1850", by John Twohig, A Thesis Submitted for the Degree of Doctor of Medicine, University of Wisconsin, 1940. [Typescript]
- FF Miscellaneous, University of Wisconsin (1934-1951, undated)

Box 2

Series: Correspondence (See Box 4, Legal Size)

Subseries: General Correspondence

- FF Mounted reproduction of letter to Foregger from RMW (?) during WWI, (December 18, 1917)
Email correspondence regarding letter (2001)
- FF Correspondence with Dennis E. Jackson (1920—1946)
Contains photo reproductions of letters
- FF Correspondence with Francis McMechan (1929—39?)
Contains correspondence, notes, and bios
- FF Correspondence with Art Guedel March 30th, 1932

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| FF | Correspondence with Paul M. Wood | (1933, 1954) |
| | Contains photocopies | |
| FF | Miscellaneous correspondence | (1935—1981) |
| | Contains photocopies | |
| FF | Ernst Silten | (1936) |
| | Materials related to Warm-Ether Narcosis Apparatus “Atmozon” | |
| FF | Correspondence with Dr. C.J. Katz | (December 19 th , 1937 ; December 23, 1937) |
| FF | Letter from ? to Michael Nosworthy, (June 16, 1939) | |
| FF | Wartime correspondence | (1944—1946) |
| FF | Miscellaneous, Postgraduate Course in Anesthesia | (1945—1946) |
| | Contains schedules and materials from several programs | |
| FF | Correspondence with Chauncey Leake | (1946—1977) |
| | Contains news clippings of obituary and publications | |

Subseries: Geoffrey Kaye

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|----|----------------------|--------|
| FF | Correspondence | (1930) |
| | Contains photocopies | |
| FF | Correspondence | (1931) |
| | Contains photocopies | |
| FF | Correspondence | (1932) |
| | Contains photocopies | |
| FF | Correspondence | (1933) |
| | Contains photocopies | |
| FF | Correspondence | (1934) |
| | Contains photocopies | |
| FF | Correspondence | (1935) |
| | Contains photocopies | |
| FF | Correspondence | (1936) |
| | Contains photocopies | |
| FF | Correspondence | (1937) |
| | Contains photocopies | |
| FF | Correspondence | (1938) |
| | Contains photocopies | |

FF Correspondence (1939)
Contains photocopies

FF Correspondence (1947-1948)
Contains photocopies

Subseries: Family correspondence

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1965, 1996

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1967

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Marybelle Waters, Jack Waters, and Mitzi Waters, 1965-1978? 1/5

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1965-1978? 2/5

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1965-1978? 3/5

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1965-1978? 4/5

FF Correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1965-1978? 5/5

FF Sympathy cards written to after the passing of RMW to Darwin Waters, Elva Waters, Barbara Waters, and Jack Waters, 1979-1980

FF Photocopies of correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1976? 1/4

FF Photocopies of correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1976? 2/4

FF Photocopies of correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1976? 3/4

FF Photocopies of correspondence from RMW and Lu Waters to Darwin Waters, Elva Waters, Barbara Waters, Jack Waters, Marybelle Waters, and Mitzi Waters, 1950-1976? 4/4

Series: Waters Writings and Publications (See Box 4, Legal Size)

Subseries: Published monographs, typescripts, manuscripts, and notes

- FF “Absorption of Carbon Dioxide from Anesthetic Atmospheres.” (Typescript, ND)
- FF “Chloroform: A Study After 100 Years.”
 (Typed MS of the book of this title, published in 1951. Found in an envelope sent by Dr. Gillespie to Dr. Waters, postmarked Feb. 8, 1950.)
- FF “Cyclopropane Anesthesia.” By Ralph M. Waters and Erwin R. Schmidt.
 (Typescript, ND)
- FF “A Discussion of One Hundred Years of Chloroform. By Ralph M. Waters,
 Paul M. Wood.” (Typescript and holograph, ND)
- FF “Dr. Philip Fox.”
- FF “The Historical Development of the Specialty of Anesthesia.”
 (Notes and typescripts, ND)
- FF “The Historical Development of the Specialty of Anesthesia.”
 (Typescript, marked “Final Copy”)
- FF “One Hundred Years of Chloroform.” (Typescript, ND)
- FF “Shades of Our Predecessors”
 (35-page holograph MS. This may be the MS of Waters’ keynote speech given at the 3rd World Congress of Anaesthesiologists, Sao Paulo, Brazil, 1964.)
- FF Unbound Notebook
- FF Notes, history of anesthesia: handwritten notes, research materials, and correspondence
- FF Miscellaneous notes
- FF Publication outline? (ca. 1933.)
 19 holograph cards

Subseries: Reprints of Waters articles

Contains photocopies

- FF Reprints of Waters’ articles, A—B
- FF Reprints of Waters’ articles, C
- FF Reprints of Waters’ articles, D—J
- FF Reprints of Waters’ articles, M—O
- FF Reprints of Waters’ articles, P—S

- FF Reprints of Waters' articles, T—W
- FF Reprints of Waters' articles, miscellaneous

Series: Miscellaneous (See Box 4, Legal Size)

Subseries: Miscellaneous Conference Proceedings

- FF Misc. programs, letters, and newsletters, 1933-1951 (contains photocopies)
- FF Misc. Meetings reports, schedules, and other materials, 1934, 1937, undated
- FF Professional Organizations Meetings Programs, 1939-1954
- FF ASA Minutes, April 12-13, 1945
- FF Proceedings of the American Physiological Society, 1938
- Proceedings of the American Physiological Society, 1940
- FF The Federation of American Societies for Experimental Biology, 1938
- The Federation of American Societies for Experimental Biology, 1939
- The Federation of American Societies for Experimental Biology, 1940

Box 3

- FF Misc. Annual Meeting Proceedings, 1929-1938
- Eighty-Eighth Anniversary Meeting of the State Medical Society of Wisconsin, 1929
- Sigma XI Quarterly, 1936
- Proceedings of the American Society of Biological Chemists, 1938
- FF Misc. Annual Meeting Proceedings, 1947, 1964
- Scientific Exhibit Program, American Medical Association, Atlantic City Sessions (reprint), 1947
- Scientific Program, World Congress of Anesthesiology (São Paulo), 1964

Subseries: Miscellaneous articles, reprints, clippings, and notes

- FF Miscellaneous German dissertations (1902-1934)

- FF Miscellaneous German dissertations (1934-1937)
- FF Miscellaneous reprints and clippings (1912-1974, undated)
Many contain inscriptions by the authors to Ralph Waters, or are initialed and dated by Ralph Waters
- FF Miscellaneous reprints and clippings (1929-1951, undated)
Many are signed by Ralph Waters and contain handwritten notes
- FF Miscellaneous reprints, brochures, notes, and news clippings (1945-1977, undated)
- FF “A Fundamental Guide to Inhalation Anesthesia” by Arthur E. Guedel, typescript (ND)
“Anesthesia: A Teaching Outline” by Arthur E. Guedel, photocopy (1936)

Restricted materials

Series: Teaching Materials and Alumni Relationships

Subseries: Miscellaneous

- FF Clinical Records, University of Wisconsin (1946)
- FF Clinical Records, University of Wisconsin (1947)

Box 4

LEGAL SIZED BOX

Series: Personal, professional, and business records (See Box 1)

Subseries: Certificates, Honors, and Awards

- FF Correspondence concerning the Henry Hill Hickman Medal (May 17 and 23, 1944)
- FF American Medical Association Certificate (1947)
- FF Miscellaneous correspondence, certificates, and other materials (1943-1980)

Series: Correspondence (See Box 2)

Subseries: General Correspondence

- FF Christmas and New Years card from Gilbert (?), advertising Australasian Medical Congress in Perth, Australia (1939 or 1940)
- FF Letter from Simpson Burke, 25 May, 1945.
- FF Letter from Paul Yordy, dated 18 July '45. (See also: Box FF)

- FF Miscellaneous correspondence
Letter from Jack Waters (?) with notes on Alan Gregg, 1942?
Correspondence with John Leahy, 1967, 1969
Correspondence from Geoffrey Kaye, 1980
Brochure on Ben Morgan Method

Subseries: Geoffrey Kaye

- FF Correspondence (November 29, 1952)
Notes in regard to Kaye's "Practical Anesthesia" (ND)
Report to the Australian Society of Anaesthetists (1938)
Biography of Edward Henry Embley
"Age of Achievement"
Contains photocopies
- FF Correspondence (1977-1981)
Contains photocopies

Subseries: Family Correspondence

- FF Index card with Waters family members and dates
Letter to Waters' children from Ralph and Lu Waters, April 30th, 1950
- FF Letter from Ulla Gordh to Elva and Barbara Waters following the passing of Ralph Waters,
December 30th, 1979
- Letter from Ulla and Torsten Gordh to Jack and Fran (?) Waters following the passing of Ralph Waters, December 29th, 1979

Series: Waters Writings and Publications (See Box 2)

Subseries: Published monographs, typescripts, manuscripts, and notes

- FF R. M. Waters. "Advantages and Technic of Carbon Dioxide Filtration with Inhalation Anesthesia. Read October 30, 1925 before Eastern Society of Anesthetists."
(Carbon copy)

Series: Miscellaneous (See Box 2-3)

Subseries: Miscellaneous Conference Proceedings

- FF Australian Society of Anaesthetists
- Proposed outline of textbook by Geoffrey Kaye. ND
- "University of Melbourne. Anesthesia. Synopsis of Lectures I – VIII. Compliments of the Lecturer in Anaesthesia." (2 copies) ND
[Note: "the Lecturer" was Geoffrey Kaye.]

“Ether Convulsions.” (Report of results of A. S. A. questionnaire, dated 1937.)

“Royal Adelaide Hospital Honorary Staff Sub-Committee on Anaesthetic Fatalities.”
(Report dated 1940.)

FF III World Congress of Anaesthesiology, Sao Paulo, 1964 - Program and Description of
Sightseeings and Excursions

Copies of speech given by Ralph Waters following the Inaugural Cerimony (sic.)

3 copies

Copies of “The Words of Dr. Luiz Rodrigues Alves at the Opening Session”

Two copies, one of which is signed : To Prof. Waters. L. Rodriguez Alves”

Empty envelope addressed to Dr. Waters from Anesthesiology, marked “first official
communication”, post-marked February 2, 1940

Sealed envelope from The University of Wisconsin with handwritten notes

Photocopy of letter from ? to Robert Macintosh concerning Ralph Waters, May 17, 1989

Subseries: Miscellaneous articles, reprints, clippings, and notes

FF Press Release “Lack of Iron May Cause One Mental Disease”, Daily Science News Bulletin
January 19, 1931

FF “Waters Canister” laminated sign

Series: Research materials

FF Air Conditioning

FF Aminocaine, typescript and correspondence (ND)

FF Anesthesia, Alcohol

FF Anesthesia, Rectal
Contains correspondence

FF Apparatus, Gas Machines

FF Aviation

FF Barbiturates, typescript (ND)

FF Complications, Post-Operative – Miscellaneous

“Sequelae of Anesthesia” by Geoffrey Kaye, typescript (ND)

FF Deaths

FF Explosions, Precautions

FF Pernocton

“Pernocton, an Injectable Hypnotic” typescript, ND

FF Spinal

FF Spinal, In Children

FF State Medicine

FF Teaching

“Teaching Outline of Psychiatry for Students and Nurses by G. Wilse Robinson, Jr.,
M. D., Neurological Hospital, Kansas City, Missouri.” (N. D.)

Box 5

Series: Personal, professional, and business records (See Box 1)

Subseries: Certificates, Honors, and Awards

Autograph books, Honorary Degree and Commencement, Western Reserve University, June 1957

Copy 1: contains autographs of Ralph Waters, Ed Rovenstine, D.E. Jackson, Irving M. Pallin, &
Robert A. Hingson.

Copy 2: contains autographs of Ralph Waters (made out to Irving Pallin), Kim Hollomore (?),
How Davis (?), Hugh O. Brown, Wendell Baker, and others.

Copy 3: Contains no autographs

Copy 4: Contains no autographs

Honorary Degree, University of Wisconsin 1951

Centennial Award for the Northwest Territory, Northwestern University certificate 1951

Honorary Degree of Doctor of Science, Western Reserve University 1957

Correspondence related to conference of honorary degree, found inside of diploma 1957, 1966

“First Edition of Selected Scientific Papers and Addresses of Ralph Milton Waters, M.D.:
Commemorating the Award of Honorary degree, Doctor of Science conferred, June 12, 1957 at Western
Reserve University”

Contains inscription from Robert A. Hingson, dated 8.8.60 (?)

Series: Waters Writings and Publications (See Box 2)

Subseries: Published monographs, typescripts, and manuscripts

Chloroform: A Study after 100 Years (two copies)

Box 6

OVERSIZED BOX

Series: Personal, Professional, and Business Records

Subseries: Miscellaneous

Aqualumni Reunion Scrapbook, approx. 1920-1940

Contains photographs, newspaper clippings, postcards, invitations, programs, research reprints, telegrams.

Scrapbook has been unbound and is badly deteriorated

Box 7

OVERSIZED BOX

Series: Personal, Professional, and Business Records

Subseries: Certificates, Honors, and Awards

Certificate, Admittance to the Faculty of Anaesthetists, Royal College of Surgeons, October 12th, 1948

Box 8

Series: Photographs

Subseries: Prints (Held at ASA Headquarters)

FF Aqualumni Meeting, 1939

FF Waters Residents, Aqualumni Reunions

FF Noel Gillespie

FF M.H. Seevers

FF Ivan Taylor

FF Torsten Gordh

FF Dr. Waters' visiting University Hospital in Copenhagen 1950

FF III Congressus Mundialis Anaesthesiologiae 1964

FF Misc. Clinical and Equipment photographs

FF Miscellaneous photographs approx. 1930's

FF	Miscellaneous photographs	approx. 1940's	
FF	Miscellaneous photographs	approx. 1950's	
FF	Miscellaneous photographs	approx. 1970's	
FF	Miscellaneous photographs of Dr. Waters, colleagues, and unidentified individuals		ND

Box 9

Subseries: Glass slides

98 Glass Slides in Red and Beige Box (Contents listed in attached page)

300 Glass Slides in White and Blue Box (Contents listed in attached page)

Letter from Patrick Sim to Darwin Waters regarding donation of slides and other items June 10, 1998

Series: Research Materials

BOX 10

Reprints: A

FF	[A – Miscellaneous]	
FF	Accidents	(See also: Explosions)
FF	Acid Base Balance	
FF	Adrenals	
FF	Air Conditioning	(See also: Refrigeration and BOX 4 Legal size)
FF	Airways	
FF	Alcohol	(See also: Box 4 Legal size)
FF	Alkaform	
FF	[American Society for Regional Anesthesia]	(Formerly filed under “Block”)
FF	Analeptics	
FF	Analgesia	

BOX 11

Reprints: Anesthesia, Charts

FF Anesthesia, Charts

FF [Anesthesia, Charts – Mayo Clinic]

FF Anesthesia, Chemistry of

FF Anesthesia, Costs

FF Anesthesia, Effects of

FF Anesthesia, Effects of

FF Anesthesia, Electrical

BOX 12

Reprints: Anesthesia, General 1

FF Anesthesia, Experiments

FF Anesthesia, General

FF Anesthesia, General

FF Anesthesia, General

FF Anesthesia, General

FF Anesthesia, General

BOX 13

Reprints: Anesthesia, General 2

FF Anesthesia, General

FF Anesthesia, General

FF [Anesthesia, General: Paper by Wesley Bourne]

 "Interdependence of Function in Anesthesia" Typescript (N.D.)

 "Interdependence of Function in Anesthesia" Reprint (1942)

FF Anesthesia, Miscellaneous

FF Anesthesia, Organization (Contains letters)

FF Anesthesia, Organization

FF Anesthesia, Organization

(Note: The files on "Organization" relate to the organization of the specialty, and to the organizing of anesthesia departments, not to individual professional societies.)

FF Anesthesia, Pharmacology of (Contains letter) (See also: Pharmacology)

FF Anesthesia, Reactions

BOX 14

Reprints: Anesthesia, Theories

FF Anesthesia, Theories

FF Anesthetist

FF Antidotes (See also: Poisoning)

FF Apnea

FF Apparatus, Blood Pressure (See also: Blood Pressure ; Respiration)

FF Apparatus, Ether (See also: Ether)

FF Apparatus, Gas Machines (See also Box 4 Legal size)

FF Apparatus, General (Contains letter)

FF Apparatus, Head Rest

FF [Apparatus, Inhalation]

FF Apparatus, Intravenous

FF Apparatus, Laboratory (Contains letter)

FF Apparatus, Rubber

FF Architecture, Operating Room

FF Arrhythmia

FF Asthma

FF Atmospheric Conditions (See also: Humidity)

BOX 15

Reprints: Aviation

FF Aviation (See also Box 4 Legal size)

FF Barbiturates (See also: Box 4 Legal size)

FF Barbiturates

FF Barbiturates (Contains letter)

FF Barbiturates

FF Barbiturates

FF [Barbiturates, Specific – Miscellaneous]

FF [Barbiturates — Evipal]

FF [Barbiturates – Evipan]

BOX 16

Reprints: Barbiturates

FF [Barbiturates – Pentothal Sodium]

FF [Barbiturates – Pernocton] (Contains letter)

FF [Barbiturates – Sodium Amytal]

FF Barbiturates – Addiction

FF Barbiturates, Poisoning (See also: Antidotes ; Poisoning)
(Includes accidental and deliberate overdoses)

FF [Bile Duct]

FF [Bladder]

FF Block, Anesthetic and Therapeutic

FF Block, Anesthetic and Therapeutic

BOX 17

Reprints: Block

- FF Block, Anesthetic and Therapeutic
- FF Block, Anesthetic and Therapeutic
- FF Block, Anesthetic and Therapeutic
- FF Blood, Chemistry of
- FF Blood, Coagulation of
- FF Blood, General
- FF Blood, General
- FF Blood, Oxygen
- FF Blood Pressure (German language reprints)

BOX 18

Reprints: Blood Pressure

- FF Blood Pressure
- FF Blood Pressure
- FF Blood Transfusion
- FF [Bone]
- FF Book Reviews
- FF Brain
- FF Burns
- FF [C – Miscellaneous]
- FF Calcium
- FF [Cancer]

BOX 19

Reprints: Carbon Dioxide

- FF Carbon Dioxide
- FF Carbon Dioxide, Absorption
- FF Carbon Monoxide Poisoning
- FF Carotid
- FF Catecholamines
- FF Chest
- FF Chloroform
- FF Choice of Anesthetics
- FF [Choice of Anesthetics: Paper by Arthur Guedel]
"Evaluation of Common Anesthetic Methods" (N. D.)
- FF Ciliary

BOX 20**Reprints: Circulatory**

- FF Circulatory, General (Contains letter)
- FF Circulatory, Depression
- FF Circulatory, Physiology
- FF Circulatory, Stimulants
- FF Cobra Venom
- FF Complications, Cerebral
- FF Complications, Cardiorespiratory
- FF Complications, Gastrointestinal
- FF Complications, G. U.
- FF Complications, Larynx and Cord Injury (See also: Larynx)

FF	Complications, Muscle	
FF	Complications, Nerve	
FF	Complications, Post-Operative – Circulatory	
FF	Complications, Post-Operative – Ileus	
FF	Complications, Post-Operative – Respiratory	
FF	Complications, Post-Operative – Miscellaneous	(See also: Box 4 Legal size)
FF	[Complications, Post-Operative – Miscellaneous: Photos]	
	"Pepke, Mrs. Lillian -- No. s763a / Skin lesion on face from anes. mask")	
FF	Complications, Renal	
FF	Complications, Treatment of	
FF	Compral	
FF	Convulsions	

BOX 21

Reprints: Coramine

FF	Coramine	
FF	[Cyclopropane]	
FF	[D – Miscellaneous]	
FF	Deaths	
FF	Deaths	
FF	[Deaths: Study by J. H. Bennett]	
	"A Study of Anesthetic Deaths in Texas"	Typescript (N. D.)
FF	Demerol	
FF	Dental	
FF	Diabetes	
FF	Diagnosis	

FF Dilaudid
FF Distention
FF Drowning
FF Divinyl Oxide (Photostatic copies)

BOX 22

Reprints: Divinyl Oxide

FF Divinyl Oxide (Photostatic copies)
FF Divinyl Oxide (Contains typed and manuscript material)
FF Divinyl Oxide
(Note: Filed under this heading are items about Divinyl oxide, Divinyl ether, Vinyl ether, Vinethene and Vinesthene.)
FF Drugs
FF Drugs, Absorption of
FF Drugs, Addiction to
FF Drugs, Allergy of
FF Drugs, Dosage
FF Drugs, New
FF Drugs, Toxicity (See also: Poisoning)
(Note: See also more specific categories, such as Barbiturates and Local Anesthetics.)
FF Electrocardiography

BOX 23

Reprints: Embolism

FF Embolism (See also: Thrombosis)
FF Emergencies

FF Endobronchial

FF Endocrine

FF Endotracheal and Esophagus

FF Endotracheal and Esophagus (Contains letter)

FF Energy Index

FF Enzymes

FF Ephedrin

FF [Essays]

FF Ether Anesthesia

BOX 24

Reprints: Ether

FF Ether Anesthesia

FF Ether, Complications

FF Ether, Experiments

FF Ether, Impurities

FF Ether, Rectal

FF Ethyl Chloride

FF Ethylene

FF Explosions, Precautions (See also: Anesthesia, Electrical)

Includes Circular 53/44; see Oversize Box for enclosure

FF Explosions, Precautions

FF [Explosions, Precautions -- Slocum & Finvold] (1944)

"Ionization of the Air: A Method for the Dispersion of Charges of Static Electricity",
by H. C. Slocum and R. Finvold. (Typescript, reprint, and correspondence.)

FF [Explosions, Precautions – IMC Committee] (1940)

Report and correspondence of the Committee on Explosion Hazards in Hospitals of the Institute of Medicine of Chicago.

FF [Explosions, Precautions -- Inspection Summary] (1931)

"Summary of the Inspection Made by Mr. Stephens of the Architect's Office and Mr. Puerker, Electrical Engineer from one of the Other State Departments Who He Brought Along With Him"

[Note: This is a report on conditions in the operating room and cast room of the Orthopedic Hospital.]

BOX 25

Reprints: Explosions

FF Explosions, Reports

FF Explosions, Reports

FF [Explosions, Reports – ASA Meeting, April 1939]

FF [Explosions, Reports – Correspondence] (1934—1935)

FF [Explosions, Reports – Paper by E. R. Rushton] (1934)

"Explosions of Anesthetics" (With correspondence)

FF [F and G – Miscellaneous]

FF Gases

FF Gases, Analysis

FF Gases, Diffusion

FF Gases, Rare

FF Geriatric Cases

FF Government and Medicine (See also: BOX 4 Legal size)

FF [H – Miscellaneous]

FF Heart, Effects of Anesthesia

BOX 26

Reprints: Heart

FF Heart, General
FF Heart, General
FF Heart, General
FF Heart, General
FF Heart Surgery
FF Helium
FF Hibernation

BOX 27**Reprints: Historical**

FF Historical, Doctors
FF Historical, Doctors
FF Historical, Miscellaneous
FF Humidity (See also: Atmospheric Conditions)
FF Hydrocarbons
FF Hyperbaric Oxygen (See also: Oxygen)
FF Hypnosis
FF [Hypnotics and Sedatives]
FF Hypothermia (See also: Temperature)
FF Infection
FF Inhalation (i.e.: Inhalation Therapy)
FF Intensive Care
FF Intermittent Positive Pressure Breathing
FF Intestine

BOX 28

Reprints: Intocostrin

- FF Intocostrin and Curare
- FF Intocostrin and Curare
- FF [Intocostrin and Curare: MS by L. Garcia Herreros]
“Curare Action on the Bronchiolar Muscles.”
- FF Intra-Arterial
- FF Intravenous
- FF Ionization
- FF Isotopes
- FF [Jaundice]
- FF Kidney
- FF Larynx (See also: Complications)
- FF Legal
- FF [Libraries]
- FF Liver

BOX 29**Reprints: Local**

- FF Local Anesthesia
- FF Local Anesthesia (Contains typed and manuscript material.)
- FF Local Anesthetics – Cocaine
- FF Local Anesthetics – Diothane
- FF Local Anesthetics – Intracaine
- FF Local Anesthetics – Lidocaine
- FF Local Anesthetics – Metycaine

FF Local Anesthetics –Monocaine
FF Local Anesthetics – Nupercaine
FF Local Anesthetics – Pantocain (See also: Spinal – Complications)
FF Local Anesthetics – Procaine
FF Lung, Abscess
FF Lung, Anatomy

BOX 30

Reprints: Lung

FF Lung, Atelectasis
FF Lung, Atelectasis
FF Lung, Emphysema
FF Lung, Gas absorption
FF Lung, General
FF Lung, Pneumonia
FF Lung, Surgery
FF Lung, Surgery
FF Lung, Tuberculosis
FF Lung, Vital Capacity

BOX 31

Reprints: M

FF [M – Miscellaneous]
FF Magnesium Sulfate
FF Manuscripts, Preparation of (See also: Speech Making)
FF Medication, Preanesthetic
FF Medication, Preoperative

FF Metabolism

FF Metabolism

FF [Metabolism – Typescript by Arthur Guedel]
“Metabolism and Reflex in Anesthesia” (4-page typescript)

FF [Metabolism – Typescript by Severinghaus]
“Historical Development of Basal Metabolism Study” (6-page typescript)

FF Methods

FF Methoxyflurane

FF Morphine

FF Moving Pictures

BOX 32

Reprints: Mu

FF Muscle Relaxants

FF Muscle Tonus

FF Narcosis

FF Narcotics

FF Neostigmine

FF Neuritis (Includes neuralgia)

FF Neuropsychiatry

FF Neuropsychiatry (See also: Box 4, Legal size)

FF Neuropsychiatry (Contains typed and manuscript material, correspondence)

BOX 33

Reprints: Nervous System

FF Nervous System, Autonomic

FF Nervous System, Central

FF	Nervous System, Peripheral	
FF	Nervous System, Sympathetic	
FF	Nervous System, Vago-Sympathetic	
FF	Nitrous Oxide	
FF	Nitrous Oxide	
FF	[Nitrous Oxide: Correspondence with D. E. Fletcher]	1943

(Note: Includes reprint by Fletcher: "Personality Disintegration Incident to Anoxia....")

BOX 34

Reprints: Nitrous Oxide

FF	Nitrous Oxide
FF	Nomenclature
FF	Obstetrics, Anesthesia & Analgesia
FF	Obstetrics, Anesthesia & Analgesia
FF	Obstetrics, Block Anesthesia
FF	Obstetrics, Cesarean section
FF	Obstetrics, Effects on fetus
FF	Obstetrics, General aspects
FF	Obstetrics, Special problems
FF	Obstetrics, General Principles
FF	Obstetrics, Inhalational
FF	Obstetrics, Labor Process

BOX 35

Reprints: Octozone

FF	Octozone	(Contains letter)
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FF Opium Derivatives
FF Oxygen Want
FF Oxygen Want
FF Oxygen Want
FF Oxygen Want
FF Ozone

BOX 36

Reprints: P

FF [P & Q – Miscellaneous]
FF Pain
FF Paraldehyde
FF Paralysis
FF Patient Post-Operative Care
FF [Pediatric] (See also: Spinal, In Children)
FF Pharmacology (Contains letter) (See also: Anesthetics)
FF Plastics
FF Pleura
FF Poisoning (See also: Antidotes , Barbiturates , Drugs)
FF Posture
FF Radioactive Recording
FF Rectal
FF Refrigeration (See also: Air Conditioning , Carbon Dioxide, Shock and Temperature)
FF Research (Note: Does not relate to research done by Dr. Waters)
FF Respiration, Artificial (Typed and manuscript materials)

BOX 37

Reprints: Respiration 1

- FF Respiration, Artificial
- FF Respiration, Artificial
- FF Respiration, Regulation of (Reprint series from *American Journal of Physiology*)
- FF Respiration, Regulation of (Reprint series from *American Journal of Physiology*)
- FF Respiration, Regulation of (Reprint series from *American Journal of Physiology*)

BOX 38

Reprints: Respiration 2

- FF Respiration, Regulation of (Reprints by Robert Gessell)
- FF Respiration, Regulation of
- FF Respiratory, Apparatus (See also: Apparatus, Inhalation)
- FF Respiratory, Centre
- FF [Witzemann typescript]

"The Old and New Chemistry of Oxygen and the Chemistry of Respiration by E. J. Witzemann,
January '35." (2 copies)
- FF Respiratory, Depression

BOX 39

Reprints: Respiratory

- FF Respiratory, Obstruction
- FF Respiratory, Paralysis
- FF Respiratory, Difficulty in Poliomyelitis
- FF Respiratory Stimulants
- FF Resuscitation

FF Resuscitation

FF Risk

FF [S – Miscellaneous]

FF Scopolamine

FF Sensitivity (See also: Drugs, Allergy to)

BOX 40

Reprints: Shock

FF Shock

FF Shock

FF Shock [Experimental]

FF Shock [Hemorrhagic]

FF Shock [Obstetrical]

FF Shock [Surgical]

FF Shock [and Temperature] (See also: Refrigeration , Temperature)

FF Shock [Traumatic]

FF Shock [Treatment of]

FF Signs, Eye (i.e.: Signs of Anesthesia)

FF Skin

FF [Sleep]

FF Soda Lime

FF Speech Making (See also: Manuscripts)

BOX 41

Reprints: Spinal 1

FF Spinal

FF	Spinal		
FF	Spinal		
FF	Spinal		
FF	Spinal		
FF	[Lecture by Hugh S. Mathewson]	Typescript	(N. D.)
	"The Pharmacology of Agents Introduced into the Subarachnoid Space"		
FF	[Speech by Philip D. Woodbridge]	Typescript	(N. D.)
	"Metycaine and Nupercaine Spinal Anesthesia"		

BOX 42

Reprints: Spinal 2

FF	Spinal, Apparatus		
FF	Spinal, Complications		
FF	Spinal, Complications	(Contains letters)	
FF	[Paper by Caldwell B. Esselstyn]		
	"Pantocain and Spinal Anesthesia"	Typescript	(N. D.)
FF	[Paper by Sidney C. Wiggin]		
	"Pantocaine and Novocaine in Spinal Anesthesia"	Typescript	(N. D.)
FF	Spinal, Experimental		
FF	[Spinal, Experimental -- Paper by Stanley J. G. Nowak]		
	"Studies in the Circulation, Respiration, and the Central Nervous System Under Spinal Anesthesia"	Typescript	(N. D.)
FF	Spinal, In Children	(See also: Pediatric)	
	(See also: Legal size box, and Oversize Box Medium)		
FF	Spinal, Therapeutic		
FF	Statistics [Keeping and Recording]	(See also: Anesthesia, Charts)	
FF	Statistics [Reports]		

FF Stimulants
FF Sulfanilamide
FF Sympathectomy
FF Sympathomimetic Drugs

BOX 43

Reprints: T

FF [T – Miscellaneous]
FF Teaching (i.e.: Medical education) (See also: BOX FF Legal size)
FF Teaching
FF Teaching
FF Teaching, Post-Graduate
FF Temperature (See also: Refrigeration ; Shock)
FF Tetanus
FF Textbooks
FF Therapeutic Use of Anesthesia
FF Thrombosis
FF Thymus
FF Thyroid

BOX 44

Reprints: Tribromethanol

FF Tribromethanol
FF Tribromethanol
FF Tribromethanol, Complications and death
FF Tribromethanol, Pharmacology of

FF	Tribromethanol, Therapeutic use of
FF	Thrombosis (See also: Embolism)
FF	[Ulcer]
FF	[Urology]
FF	[Vitamins]
FF	[War] (See also: Shock, Traumatic)
FF	Water Balance