Guide to the InBae Yoon Papers

NMAH.AC.1414
Sara Wheeler
2017
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Collection Overview

Repository: Archives Center, National Museum of American History
Title: InBae Yoon Papers
Identifier: NMAH.AC.1414
Date: 1970-2009
(bulk 1973-2003)
Extent: 13 Cubic Feet (34 boxes)
Creator: Yoon, InBae, 1936-2014
Language: English
Some materials are in Korean.
Collection is in English.
Summary: InBae Yoon was a Korean American inventor. He specialized in OB-GYN surgery, and his inventions aided in the safety of laparoscopic and endoscopic surgery. The papers include personal documents, corporate agreements and licenses, technical drawings, patent applications, correspondence, project proposals, and methods and procedures.

Administrative Information

Acquisition Information
Collection donated by Kyung Joo Yoon, widow of InBae Yoon, 2017.

Separated Materials
The Division of Medicine and Science holds artifacts related to this collection.

Processing Information
Processed by Sara Wheeler, July 2017; supervised by Alison Oswald, archivist.

Preferred Citation

Restrictions
Collection is open for research. Gloves must be worn when handling unprotected photographs.
Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

Appraisal

The Archives Center staff focused on documenting three of Dr. Yoon’s inventions: the “Yoon Ring,” a device for tubal ligation for women, patented in 1975; a penetrating instrument with safety shield, and method for introducing a portal sleeve into a cavity in the body, patented in 1985; and surgical clips and applicator, patented in 1992.

Archivists examined approximately 147 cubic feet of material and selected approximately 19 cubic feet for permanent retention.

Biographical / Historical

Dr. InBae Yoon (1936-2014) was a prolific Korean American inventor of surgical devices and instrumentation. He was born in Korea during the Japanese Occupation (1910-1945) and attended the Yonsei University School of Medicine, earning his medical degree in 1961. From 1961 to 1964, Yoon served as medical officer in the South Korean Navy, and in 1964 he participated in a program developed to match Korean medical doctors with United States hospitals and medical schools. As a result, Yoon immigrated to Baltimore, Maryland to conduct his rotating internship and general surgical residency at Church Home and Hospital. During his residency, Yoon switched his training from general surgery to obstetrics and gynecology and became fascinated by laparoscopy, a method of surgery performed using a scope placed through the umbilicus, sometimes with other small incisions in the abdomen. During this period he was exposed to tubal ligation, one of the few surgeries done laparoscopically at the time. Observing some of the injuries and complications from these early laparoscopic procedures he became interested in safer laparoscopic methods. After completing his residency in 1969 and finishing a yearlong fellowship, he joined a private practice. In 1973 he then joined the John Hopkins University School of Medicine as an assistant professor in the Department of Obstetrics and Gynecology where he explored new laparoscopic techniques and procedures.

Yoon became convinced that laparoscopic or “keyhole” surgery was the future. His first invention, the Yoon Ring, was developed between 1972 and 1974, with the patent being issued in 1975 (US Patent 3,870,048). The Yoon Ring system, manufactured with KLI Incorporated, provided a safer method for laparoscopic tubal ligation by applying a silastic ring around the fallopian tube to prevent pregnancy. This simple mechanical method of tubal ligation avoided many of the complications associated with other tubal ligation techniques that utilized electrocautery. Yoon began to see further potential for the use of laparoscopy and from 1975 to 1985, he focused on inventing safety systems for laparoscopic procedures, including safety trocars, safety needles, and safety catheters, which all aided in different aspects of laparoscopic surgery. Yoon spent much of the late 1980s to the early 2000s, working on new innovations such as retractable penetrating instruments, suture tie instruments, cavity stents and expanders, as well as making modifications to previous safety system designs. During this period, Yoon investigated and sought out the assistance of a few large instrument manufacturing companies, such as Richard Wolf GmbH, Olympus, and Cabot Medical in an effort to bring his trocar designs to the market without success. In 1985, Yoon then incorporated his own company, Yoonitech, Inc. to pursue his inventions. In 1988, Yoon established a relationship with Johnson and Johnson, specifically the subsidiary of the company, Ethicon, which later became Ethicon Endo Surgery (EES) and licensed his shielded trocar patent (US Patent 4,535,773) to bring his product to market. From 1995-2005, Yoon continued to collaborate with EES for the production of instruments and techniques for laparoscopy and endoscopy. Dr. Yoon passed away on
December 30, 2014. After 5 decades of focusing on this innovative approach to surgery, he amassed over 200 U.S. patents for his work.

Scope and Contents

The collection documents Dr. Yoon's life and career as a surgeon and his invention and development of numerous tools, instruments and procedures. The collection specifically focuses on three inventions: the "Yoon Ring", a device for tubal ligation for women patented in 1975; a penetrating instrument with safety shield, and method for introducing a portal sleeve into a cavity in the body, patented in 1985; and surgical clips and applicator, patented in 1992. All three were manufactured and widely used. The contents include invention notebooks, sketches, photographs and slides, correspondence, patents, patent applications, legal papers, business papers, articles and clippings, reference files, and some audiovisual materials.

Arrangement

The collection is arranged into 6 series.

**Series 1: Personal Documents and Correspondence, 1980-1999**

**Series 2: Professional Activities, 1974-2009**

**Series 3: Corporate Agreements and Correspondence, 1970-2005**

Subseries 3.1: Ethicon Endo-Surgery (Johnson & Johnson), 1987-2003


Subseries 3.3: Cabot Medical Instruments Corporation, 1984-1986

Subseries 3.4: KLI, 1973-1980

Subseries 3.5: Reznick, 1982-1986

Subseries 3.6: Other Disclosures and Partnerships, 1973-1999

**Series 4: Drawings and Technical Specifications, 1970-2005**

**Series 5: Legal Documents, 1970-2003**

Subseries 5.1: Patents, 1970-2003

Subseries 5.2: Ethicon Inc./InBae Yoon vs. United States Surgical Corporation/Choi, 1975-1998

Subseries 5.3: Correspondence, 1975-2001

**Series 6: Projects and Proposal Documents, 1975-2001**

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:
Subjects:
- Endoscopy
- Ethicon Endo-Surgery, Inc.
- Inventions -- 20th century
- Inventors -- 20th century
- Laparoscopes
- Laparoscopic surgery
- Medical Equipment
- Medical innovations
- Medical instruments and apparatus
- Patents
- Sterilization (Birth control)
- Surgery
- Surgical instruments and apparatus
- United States Surgical Corporation

Types of Materials:
- Articles -- 20th century
- Business records -- 20th century
- Clippings -- 20th century
- Correspondence -- 20th century
- Design drawings
- Legal documents
- Notebooks -- 20th century
- Patent applications
- Patents -- 20th century
- Photographs -- 20th century
- Slides (photographs) -- 20th century

Occupations:
- Physicians
- Surgeons
Container Listing

Series 1: Personal Documents and Correspondence, 1980 - 1999

This series contains Yoon's guide to the abbreviations used in his notes and outlines of what Yoon called his "Way of Life." Personal correspondence and Korean newspapers are also a part of the series.

Box 1, Folder 1  Shorthand Key Notes, 1980 - 1981
Box 1, Folder 2  "Yoon Way of Life", 1983
    Image(s)
Box 1, Folder 3  Personal Correspondence, 1985
Box 1, Folder 4  "Yoon's Way of Life and Creative Thinking", 1988-1989
Box 1, Folder 5  Korean Newspapers, 1989
Box 1, Folder 6  Notes in Korean, 1993
Box 1, Folder 7  "We Moved" Notification, 1999

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This series consists of professional correspondence, authored articles, and articles and textbooks featuring Yoon's procedures and methods. Also included are documents related to professional medical associations, Baltimore hospitals, and alumni newsletters.

Box 1, Folder 8  American Association of Gynecological Laparoscopists, 1974-1976
Box 1, Folder 9  American College of Obstetricians and Gynecologists, 1974-1976
Box 1, Folder 10 Articles Related to Yoon-Ring, 1975-1987
Box 1, Folder 11 Sterilization Book, 1976
Box 1, Folder 12 Advances in Female Sterilization Techniques Book, 1976
Box 1, Folder 13 Journal Articles Featuring Yoon's Methods, 1976-1977
Box 1, Folder 14 George Read, 1978
Box 1, Folder 15 Articles by Yoon, 1979-1982
Box 1, Folder 16 Articles Related to Sterilizations, 1980-1999
Box 1, Folder 17 South Baltimore General Hospital, 1982
Box 2, Folder 1 Resumes, Cover Letters, and References for Yoon's Review, 1982-1986
Box 2, Folder 2 Professional Correspondence, 1984-1986
Box 2, Folder 3 Textbook of Laparoscopy, 1985
Box 2, Folder 4 Greater Baltimore Medical Center Request for Staff Privileges, 1985-1987
Box 2, Folder 5 Francis Scott Key Medical Center, 1985-1987
Box 2, Folder 6 John Hopkins Programs and Mailings, 1987-1989
Box 2, Folder 7 Gynecological Endoscopy, 1988
Box 2, Folder 8 Professional Announcement, 1989
Box 2, Folder 9 Study in Korea-Yonsei University, 1989
Box 2, Folder 10 Union Memorial Hospitals Memos and Notices, 1989
Box 3, Folder 1 Professional Mailings and Bulletins, 1989
Box 3, Folder 2 American Medical Association, 1991
Box 3, Folder 3 Manual of Endoscopy, 1992
Box 3, Folder 4  Origin Medsystems Brochure, 1992
Box 3, Folder 5  Equipment Advertisements, 1992
Box 3, Folder 6  Union Memorial Hospital, 1992-1994
Box 3, Folder 7  Korean-American Medical Association Mailings and Directory, 1998
Box 3, Folder 8  Endopath Trocar System Brochure, 1998
Box 3, Folder 9  Syllabus for Laparoscopy Workshop for the Society for the Advancement of Contraception, 1998
Box 3, Folder 10  Severance Alumni Association News, 2009
Box 3, Folder 11  Blank Patient Forms, undated
Box 3, Folder 12  Professional Announcements, undated
Box 3, Folder 13  Curriculum Vitae, undated
Box 3, Folder 14  Yoon’s Notes on Time Line of Events, undated
Box 3, Folder 15  Wyman Park Health System Directory, undated
Box 3, Folder 16  Copies of American V Mueller Catalog-Plastic and Reconstructive Instruments, undated
Box 3, Folder 17  Blank Fax Cover Sheets, undated

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Series 3: Corporate Agreements and Correspondence, 1973 - 2003

This series contains licensing agreements, confidential disclosures, and correspondence with corporate partners whom Yoon worked with throughout his career.

Subseries 3.1: Ethicon Endo-Surgery (Johnson and Johnson), 1987 - 2003

- Box 3, Folder 18: Ethicon Correspondence, 1987
- Box 3, Folder 19: Agendas, 1988 July 27
- Box 3, Folder 20: Confidential Disclosure and Secrecy Agreement, 1988
- Box 3, Folder 21: Ethicon Agreements and Licenses, 1988
- Box 3, Folder 22: Ethicon Correspondence, 1988
- Box 4, Folder 1: Ethicon Disclosure--Exhibit A, 1988
- Box 4, Folder 2: Ethicon Disclosure--Exhibit B, 1988
- Box 4, Folder 3: Exhibit A, A-1, B, and C Disclosed to Ethicon, 1988
- Box 4, Folder 4: Balloon Safety Trocar Systems Disclosures, 1988
- Box 4, Folder 5: Ethicon Agreement Amendment, 1989
- Box 4, Folder 6: Ethicon Correspondence, 1989
- Box 4, Folder 7: Ethicon Disclosure and Agreement, 1990 January 23
- Box 4, Folder 8: Confidential Disclosures by Yoon to Ethicon about Bandages, 1990
- Box 4, Folder 9: Confidential Disclosure, 1990 January 23
- Box 4, Folder 10: Ethicon Correspondence, 1990
- Box 4, Folder 11: Travel Expenses, 1990 September-December
- Box 4, Folder 12: Ethicon Disclosure, 1990
- Box 5, Folder 1: Confidential Disclosures to Ethicon, 1992-1995
- Box 5, Folder 2: Ethicon Disclosure, 1992-1995
- Box 5, Folder 3: Ethicon Disclosures, 1992-1995
- Box 5, Folder 4: Applicators and Cutting System Disclosed to Ethicon, 1994
- Box 5, Folder 5: Ethicon Endo-Surgery Disclosure--Summary and Drawings, 1994
- Box 5, Folder 6: Ethicon Disclosure, 1994 May
Box 5, Folder 7  Disclosure List, 1996
Box 5, Folder 8  Disclosure--Ultra Sound Safety Trocar, Safety and Needle and Safety Catheter, 1996
Box 5, Folder 9  Meetings Agendas and Notes, 1996-2001
Box 6, Folder 1  Protocol for PVA, 1998
Box 6, Folder 2  Meeting Agendas and Notes, 1998
Box 6, Folder 3  Disclosure Meeting with Ethicon, 1999
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Box 6, Folder 5  Meeting Notes and Related Correspondence, 2001
Box 6, Folder 6  Disclosure--Multiple Clip Application with Ultracision Energy, 2001
Box 6, Folder 7  Disclosure--Improvement of Endoscopic and Open Surgery, 2001
Box 6, Folder 8  Disclosure--Improvement of Endoscopic and Open Surgery by Multifunctional Ultracision Energy
Box 6, Folder 9  Disclosure of Ultracision Biopsy System, 2001
Box 6, Folder 10  Summary of Ethicon Endo-Surgery Disclosures and Dealings, 2001
Box 6, Folder 11  Improvement and Modification Notes on Ultracision, 2001
Box 6, Folder 12  Disclosure--Ultracision Ring Applicator System, 2001
Box 6, Folder 13  Disclosure--Multifunctional Ultrasound Energy Instrument, 2001
Box 6, Folder 14  Disclosure--Skin Incision by Ultracision with or without Application of Liquid, 2001
Box 6, Folder 15  Disclosures and Meeting Notes, 2001
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Box 7, Folder 5       Restated Agreement with Richard Wolf GmbH, 1980
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| Box 9, Folder 3 | Eder Instrument Company Agreements and Correspondence, 1975-1979 |
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| Box 9, Folder 8 | Olympus Agreements, 1977-1983 |
| Box 9, Folder 9 | Confidential Agreement with John M. Ahern, 1986 |
| Box 9, Folder 10 | Thermedics Correspondence and Agreements, 1986 |
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| Box 9, Folder 13 | Proprietary Disclosure, 1987 June 22 |
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| Box 9, Folder 16 | Confidentiality Agreement with United States Surgical Corporation, 1987 |
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| Box 9, Folder 20 | Potential Investors and Partners, 1998-1999 |
Series 4: Drawing and Technical Specifications, 1970 - 2005

Image(s)

This series contains drawings and technical specifications of Yoon’s various medical devices and instruments. The drawings range from basic sketches to more detailed drawings of rings, ring clips, various iterations of the safety trocar, safety needles, and space-creating or expanding instruments.

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