**Descriptive Summary**

**Creator:** Hultgren, Herbert N.

**Title:** Herbert Hultgren Papers,

**Date (inclusive):** 1940-1998

**Extent:** 4.00 linear feet (11 archives boxes)

**Abstract:** Papers of Herbert Hultgren, cardiologist, mountain climber, researcher in high altitude medicine, and specialist in the study of high altitude pulmonary edema (HAPE). Hultgren and his colleague, Dr. Warren Spickard, were the first to publish a full account of high-altitude pulmonary edema in an English language publication. The papers contain materials related to Hultgren's work in Peru in the early 1960s on HAPE; drafts and production materials for his self-published textbook entitled HIGH ALTITUDE MEDICINE; a complete collection of his reprints; and files related to his important journal articles. The bulk of the collection is concerned with Hultgren's research on high altitude pulmonary edema (HAPE) and preparation of the book HIGH ALTITUDE MEDICINE and contains notebooks, drafts, notes, correspondence, data from experiments and patient observations, and reference articles. Also included are files documenting Hultgren's work on cardiac catheterization and establishment of first catheterization laboratory in Stanford, as well as his observation of cases of severe starvation in concentration camp survivors conducted while he served in Europe with U.S. Medical Corps in the end of the World War II. The papers are arranged in six series: 1) NOTEBOOKS, 2) SUBJECT FILES, 3) JOURNAL ARTICLES, 4) HIGH ALTITUDE MEDICINE - BOOK MATERIALS, 5) MISCELLANEOUS MATERIALS, and 6) REPRINTS.

**Repository:** University of California, San Diego. Geisel Library. Mandeville Special Collections Library.

La Jolla, California 92093-0175

**Collection number:** MSS 0628

**Language of Material:** Collection materials in English

**Access**

Collection is open for research

**Acquisition Information**

Not Available

**Preferred Citation**

Herbert Hultgren Papers, MSS 0628. Mandeville Special Collections Library, UCSD.

**Publication Rights**

Publication rights are held by the creator of the collection.

**Biography**

Herbert Nils Hultgren was born on August 29, 1917, in Santa Rosa, California. He attended Santa Rosa Junior College and then Stanford University where he graduated in 1939. Hultgren attended the Stanford School of Medicine and graduated in 1943. He served in the U.S. Army in Europe between 1944 and 1945 where he observed starved prisoners from German concentration camps. Before joining the Stanford faculty in 1948, he completed residencies in internal medicine and pathology at Stanford. He attained the rank of professor at Stanford School of Medicine and served as chief of the Cardiology Division at Stanford Medical School and later at the Veterans Administration Hospital, Palo Alto, California. Hultgren designed and established the first cardiac catheterization laboratory in Northern California.

In 1959, Hultgren and his colleague, Dr. Warren Spickard, traveled to Peru and visited the Chulec General Hospital where they encountered high altitude pulmonary edema, known locally as edema of the lungs in newcomers. They reviewed the reports on 41 cases and presented the data in the Stanford Medical Bulletin.

In 1990, Hultgren received the prestigious Albion W. Hewlett Award for excellence in patient care, teaching, and research by his fellow Stanford University faculty members. He served as chairman of the Sub-specialty Board on Cardiovascular Disease of the American Board of Internal Medicine, President of the Association of University Cardiologists, President of the Western Association of Physicians, and was a member of the American Society of Clinical Investigation.

After his retirement, he continued part-time teaching and lecturing until his death in October 1997.

**Scope and Content of Collection**

The papers of Herbert Nils Hultgren (1917-1997), a prominent cardiologist and pioneering researcher in high altitude medicine, document his research in high altitude medicine and cardiac catheterization. The bulk of the collection is related to Hultgren's research on high altitude pulmonary edema (HAPE) and preparation of his book entitled HIGH ALTITUDE MEDICINE. These materials comprise notebooks, subject files, and drafts of chapters. Materials related to his trip to Peru in 1960-1961 include a notebook and transcriptions of two tapes dictated by Hultgren while he was there. Also represented in the collection are materials documenting Hultgren's observations of severe cases of starvation in Nazi concentration camp
survivors.
The papers are arranged in six series: 1) NOTEBOOKS, 2) SUBJECT FILES, 3) JOURNAL ARTICLES, 4) HIGH ALTITUDE MEDICINE - BOOK MATERIALS, 5) MISCELLANEOUS MATERIALS, and 6) REPRINTS.

SERIES 1: NOTEBOOKS
The NOTEBOOKS series contains manuscript notes on military medicine and experiments done at the 131st Evacuation and 59th Field Hospitals with the U.S. Army Medical Corps, observations of cases of severe starvation in Nazi concentration camp survivors, laboratory notes on cardiac catheterization and congenital heart disease, and observations of HAPE from a 1961 trip to Peru. The notebooks are organized chronologically.

SERIES 2: SUBJECT FILES
The SUBJECT FILES series, arranged alphabetically, contains research materials related to the study of coronary artery perfusion, high altitude pulmonary edema, hypercholesterolemia, and malnutrition. Included are data sheets, charts, X-rays, correspondence, and figures.

SERIES 3: JOURNAL ARTICLES
The JOURNAL ARTICLES series contains manuscript drafts, correspondence and research materials for selected journal articles.

SERIES 4: HIGH ALTITUDE MEDICINE - BOOK MATERIALS
The HIGH ALTITUDE MEDICINE series contains files that were generated during Hultgren's work on his HIGH ALTITUDE MEDICINE book. The files include correspondence, notes, reference materials, figures, and drafts. The series is arranged in three subseries: A) Research Materials, B) Drafts, and C) Editorial Materials.
A) The Research Materials subseries is arranged by chapter and contains notes, correspondence, and reference articles.
B) The Drafts subseries is also arranged by chapter and contains typescripts for each chapter of the book. Also included are figures, correspondence and reference articles.
C) The Editorial Materials subseries contains correspondence regarding monograph indexing and editorial notes.

SERIES 5: MISCELLANEOUS MATERIALS
The MISCELLANEOUS MATERIALS series contains Hultgren's curriculum vitae and a list of his publications. Also included are files related to a discussion of Hultgren's contribution to the study of HAPE syndrome, and transcriptions of tapes dictated by Hultgren in Peru in 1960 with his commentary on HAPE.

SERIES 6: REPRINTS
The REPRINTS series contains a complete collection of Hultgren's reprints arranged in numerical order.

Indexing Terms
The following terms have been used to index the description of this collection in the library's online public access catalog.

Subjects
Hultgren, Herbert N. -- Archives
Pulmonary edema
Altitude, Influence of -- Peru

NOTEBOOKS

box 1, folder 1
Physical Diagnosis 1940

box 1, folder 2
Military Medicine 1945 - 1946

box 1, folder 3
Notes on Experiments in the 131st Evacuation and 59th Field Hospitals 1945 - 1946

Note
Contains notebook, Hultgren's identification card, newspaper clipping, and typescript confession of Franz Ziereis, a concentration camp official.

box 1, folder 4
Laboratory notes 1952

Note
Contains notes on cardiac catheterization, congenital heart disease, plans for the opening of cardiac catheterization laboratory, and meeting notes.
NOTEBOOKS

box 1, folder 5  Peru Data Book 1961
   Note
   Contains observations of patients and catheter study notes.

SUBJECT FILES

box 1, folder 6  Charts
   Note
   Undated.

box 1, folder 7  Coronary Artery Perfusion 1969
   Note
   Contains data sheets.

box 1, folder 8  Coronary Perfusion (Dog) 1970
   Note
   Contains notes and X-rays of heart.

box 1, folder 9  Data sheets and charts
   Note
   Undated. Contains tables numbered 1 through 54.

box 1, folder 10  Dugong Heart
   Note
   Contains correspondence, notes, reference articles, and black-and-white photographs of heart.

box 1, folder 11  High Altitude Pulmonary Edema - Autopsy Studies and Data
   Note
   Contains correspondence, notes, and reference materials.

box 1, folder 12  High Altitude Pulmonary Edema - Fatal cases
   Note
   Contains letters, data sheets, and Rodman Wilson's report on Problems of Sickness and Rescue at High Altitude.

box 2, folder 1  High Altitude Pulmonary Edema - Pathology
   Note
   Contains reprints of articles.

box 2, folder 2  Hypercholesterolemia - Kahn
   Note
   Contains correspondence, data sheets, and medical records.

box 2, folder 3  Malnutrition 1945
   Note
   Contains correspondence, notes, and X-rays.

box 2, folder 4  Photographs
   Note
   Charts, X-rays, and tables.
box 2, folder 5  X-rays of injected coronary arteries 1969
   Note
   Contains X-rays numbered 1 through 45 and two negatives with notes.

JOURNAL ARTICLES

box 2, folder 6  Cardiac Function Following Prosthetic Aortic Valve Replacement 1969
   Note
   With H. Hubis and N. Shumway. Contains draft, notes, correspondence, and figures.

box 2, folder 7  Cardiac Function Following Prosthetic Aortic Valve Replacement 1969
   Note

box 2, folder 8  Cardiac Function Following Prosthetic Mitral Valve Replacement 1968
   Note
   With H. Hubis and N. Shumway. Contains correspondence and drafts.

box 3, folder 1  Cardiac Function Following Prosthetic Mitral Valve Replacement 1968
   Note
   With H. Hubis and N. Shumway. Contains manuscripts, charts, notes, and figures.

box 3, folder 2  Clinical and Laboratory Observations In Severe Starvation 1951
   Note
   Contains manuscripts, typescripts, galley proof, two letters, black-and-white photographs, and a reference article.

box 3, folder 3  History Of Cardiac Catheterization
   Note
   Contains typescript, manuscript, and notes.

box 3, folder 4  History Of Cardiac Catheterization
   Note
   Contains correspondence and black-and-white photographs. Correspondence dating back to 1958-1959.

box 3, folder 5  History Of Cardiac Catheterization
   Note
   Contains reference materials.

box 4, folder 1  Syndrome Of Patent Ductus Arteriosus With Pulmonary Hypertension 1953
   Note

box 4, folder 2  Syndrome Of Patent Ductus Arteriosus With Pulmonary Hypertension 1953
   Note
   With A. Sezer, A. Purdy, E. Holman, and F. Gerbode. Contains notes, correspondence, and black-and-white photographs.

box 4, folder 3  Venous Pistol Shot Sounds 1962
   Note
   Contains typescripts, manuscripts, notes, and correspondence.
Venous Pistol Shot Sounds 1962
Note
Contains charts, reference articles, and negatives.

HIGH ALTITUDE MEDICINE -- BOOK MATERIALS

Research Materials

1. Physiologic Effects of High Altitude
   Note
   Contains correspondence and reference materials.

2. Respiration and Pulmonary Function
   Note
   Contains correspondence and reference materials.

3. Systematic Circulation
   Note
   Contains a letter, notes, and reference articles.

4. Pulmonary Circulation
   Note
   Contains a letter, notes, and reference articles.

5. Blood and Plasma Volume
   Note
   Contains correspondence and reference articles.

6. Central Nervous System
   Note
   Contains letters, notes, and reference articles.

7. Endocrine System
   Note
   Contains notes and reference materials.

8. Nutrition and Metabolism
   Note
   Contains reference materials.

9. Water, Electrolytes and Acid-Base Balance
   Note
   Contains notes and reference articles.

10. Acclimatization
    Note
    Contains notes and reference articles.

11. Exercise
    Note
    Contains a letter and reference articles.
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<thead>
<tr>
<th>Box, Folder</th>
<th>Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>5, 8</td>
<td>13. High Altitude Pulmonary Edema</td>
<td>Note. Contains correspondence, notes, and reference articles.</td>
</tr>
<tr>
<td>6, 1</td>
<td>15. Chronic Mountain Sickness</td>
<td>Note. Contains a letter, notes, tables, and reference articles.</td>
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<td>16. Sleep</td>
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<tr>
<td>6, 3</td>
<td>17. Systemic Edema</td>
<td>Note. Contains letters and reference articles.</td>
</tr>
<tr>
<td>6, 5</td>
<td>20. High Altitude Pulmonary Hypertension</td>
<td>Note. Contains letters and reference materials.</td>
</tr>
<tr>
<td>6, 8</td>
<td>23. Coronary Artery Disease</td>
<td>Note. Contains letters, notes, and reference articles.</td>
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</table>
27. Pulmonary Disease
   Note
   Contains notes and reference materials.

28. Migraine
   Note
   Contains a letter, reference materials, and notes.

29. Sea Level Conditions
   Note
   Contains letters, notes, and reference materials.

30. Women and Altitude
    Note
    Contains a letter, notes, and reference materials.

High Altitude Man - Notes
    Note
    Contains letters, notes, and reference materials.

Appendix 1. Medicolegal Aspects
    Note
    Contains correspondence, notes, and reference materials.

Medico-Legal Problems (Clients not Passengers)
    Note
    Contains notes and reference materials.

Appendix 2. Selected High Altitude Monographs and Proceedings

Drafts

Table of Contents
    Note
    Contains drafts, notes, and correspondence.

Introduction

1. Physiologic Effects of High Altitude
2. Respiration and Pulmonary Function
3. Systemic Circulation
4. Pulmonary Circulation
5. Blood and Plasma Volume
6. Central Nervous System
7. Endocrine System
8. Nutrition and Metabolism
9. Water, Electrolytes and Acid-Base Balance
10. Acclimatization
11. Exercise
12. High Altitude Man
12. Acute and Subacute Mountain Sickness
12. Acute and Subacute Mountain Sickness
12. Acute and Subacute Mountain Sickness
13. High Altitude Pulmonary Edema
<table>
<thead>
<tr>
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<th>Title</th>
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| box 9, folder 3 | **13. High Altitude Pulmonary Edema**  
|          | Note  
|          | Tables.                                                             |
| box 9, folder 4 | **14. High Altitude Cerebral Edema**                                |
| box 9, folder 5 | **15. Chronic Mountain Sickness**                                   |
| box 9, folder 6 | **16. Sleep**                                                       |
| box 9, folder 7 | **17. Systemic Edema**                                              |
| box 9, folder 8 | **18. Thromboembolism**                                             |
| box 9, folder 9 | **19. Headache**                                                    |
| box 9, folder 10 | **20. High Altitude Pulmonary Hypertension**                        |
| box 9, folder 11 | **21. Retinal Hemorrhages**                                         |
| box 9, folder 12 | **22. Syncope**                                                     |
| box 9, folder 13 | **23. Coronary Artery Disease and Altitude**                        |
| box 9, folder 14 | **24. Congenital and Valvular Heart Disease**                       |
| box 9, folder 15 | **25. Systemic Hypertension**                                       |
| box 9, folder 16 | **26. Sickle Cell Disease**                                         |
| box 9, folder 17 | **27. Pulmonary Disease**                                           |
| box 9, folder 18 | **28. Migraine**                                                    |
| box 10, folder 1  | **29. Sea Level Conditions**                                       |
| box 10, folder 2  | **30. Women and Altitude**                                          |
| box 10, folder 3  | Appendix 1. Medicolegal Aspects                                    |
| box 10, folder 4  | Appendix 2. Selected High Altitude Monographs and Proceedings       |
| box 10, folder 5  | Appendix 2. Medications Used For High Altitude Medical Problems     |
|          | Note                                                                |
|          | Contains correspondence, notes, drafts, and reference materials.    |

**Editorial Materials**

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<td>Note</td>
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<tr>
<td></td>
<td>Contains correspondence and notes.</td>
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<tr>
<td>box 10, folder 7</td>
<td><strong>Shirley Taylor Editorial Notes</strong></td>
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**MISCELLANEOUS MATERIALS**

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<th>Folder</th>
<th>Title</th>
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<tbody>
<tr>
<td>box 10, folder 8</td>
<td><strong>Curriculum Vitae 2004</strong></td>
</tr>
</tbody>
</table>
| box 10, folder 9  | Hultgren's contributions to and work on high altitude pulmonary edema - discussion 1960 - 1998  
<p>|          | Note                                                                |
| box 10, folder 10  | <strong>West, John 1995 - 1998</strong>                                          |
|          | Note                                                                |
|          | Contains correspondence and enclosures. Correspondence concerned with early history of HAPE and Hultgren's contributions to the discussion of HAPE. |
| box 10, folder 11  | <strong>Scientific American Medicine 1993</strong>                               |
|          | Note                                                                |
|          | Contains correspondence and tables.                                  |</p>
<table>
<thead>
<tr>
<th>Box and Folder</th>
<th>Numbered Reprints</th>
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</thead>
<tbody>
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<td>67-113</td>
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