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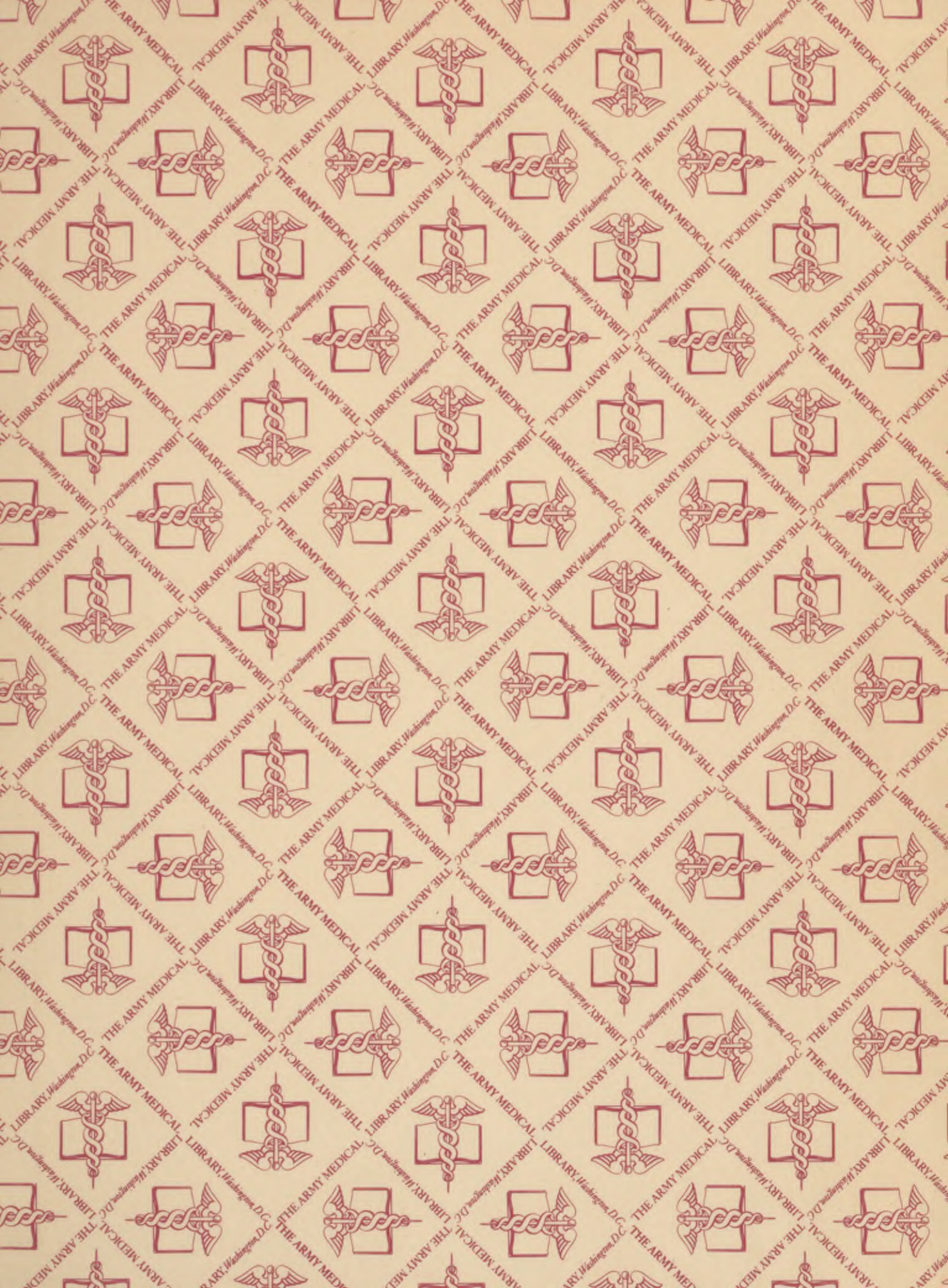


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DIVISION OF MEDICAL SCIENCES
Lewis H. Weed, M.D., Chairman

A PROSPECTUS

for the

MEDICAL HISTORY OF THE SECOND WORLD WAR

Now Being Compiled by

Members of the Medical Profession

of the United States of America

From Sources Within the Area of the Interior and

From Foreign Territories Occupied by United States Forces

Planned under the Direction of the
Division of Medical Sciences
National Research Council
Washington, D.C.

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Lewis H. Weed, M.D.

In 14 volumes, with illustrations

Washington, D.C.
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PREFACE

The present outline, which has been developed by the Committee on Information of the National Research Council through its Subcommittee on Historical Records, is an amplification of a preliminary prospectus issued in September 1942 in War Medicine. It was deemed inadvisable at that time to record author assignments since in 1942 they were necessarily provisional. Now that the turning point of the war has been reached, it is essential to make author assignments on a definite basis, and in the present more detailed prospectus authors who have accepted responsibility for a given chapter are named. Some assignments, however, still remain provisional, for the war is not yet ended, and it will no doubt progress in fresh channels; new diseases will be encountered as new territories are occupied, and patterns of injury may occur peculiar to the newer types of offensive weapon which would require special treatment.

The Editorial Board has labored in the conviction that source materials must be gathered contemporaneously, and our authors and editors are urged to collect all documents relevant to their chapter assignments as the war proceeds, so that time-consuming and costly research in official files will be unnecessary when the war ends. Many topics are already largely, and some completely, closed: e.g., the story of the commercial production of penicillin, and the epidemic of yellow-fever vaccine hepatitis. These and many similar topics should be described now, while official sources are still readily available.

The N.R.C. Medical History is planned to embrace not only the military services but all national agencies and institutions which have played a part in the national effort in medicine. Emphasis will be placed primarily upon the record of scientific and professional activity since we do not

intend to deal with individual operations in any theatre of the war. This responsibility will devolve upon the official historians of the War and Navy Departments who have also laid plans for service histories.* There should be little overlapping between this history and those of the services, although in certain instances the same author may contribute to both the service and the N.R.C. history. The Surgeons General of the Army and Navy do not object to our enlisting the cooperation of individual officers of the Army and Navy, but anything written by an officer in service must be cleared through usual military channels prior to publication. We hope with the aid of the services to obtain a clear and authoritative picture of the practical applications within the various theatres of war of the more important medical advances of the war period. The History will also provide abundant evidence of the vast rôle which scientific medicine has played in determining the success of our offensive strategy.

The Editorial Board wishes to take this opportunity of expressing its warm appreciation both to authors and editors for their continued interest in the welfare of this large undertaking.

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New Haven, Conn.
27 July 1944.

*Details of the War Department's projected medical history are to be found in the Army Medical Bulletin for June 1944, but the plans for the history of the Medical Department of the Navy, although well advanced, have not yet been officially announced.

LIST OF VOLUMES AND EDITORS

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Editor: Frank G. Boudreau, M.D.
- RÉSUMÉ: 2 vols. (primarily for non-professional readers)
Editor: Richard H. Shryock, Ph.D.

VOLUME I. ORGANIZATION, RESEARCH, AND LIAISON

Editor: Lewis H. Weed, M.D.

PART I. WAR EMERGENCY ORGANIZATION OF THE UNITED STATES GOVERNMENT

CHAPTER I. OFFICE OF DEFENSE HEALTH AND WELFARE SERVICES - Health and Medical Committee

Author: Irvin Abell, M.D.

CHAPTER II. WAR MANPOWER COMMISSION - Procurement and Assignment Service

Author: Frank H. Lahey, M.D.

CHAPTER III. OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT (Prof. James Phinney Baxter, Official Historian)

1. National Defense Research Committee

Author: Caryl P. Haskins

2. Committee on Medical Research

Author: A. N. Richards, M.D.

CHAPTER IV. NATIONAL RESEARCH COUNCIL

Author: Lewis H. Weed, M.D.

CHAPTER V. OFFICE OF CIVILIAN DEFENSE, MEDICAL DIVISION

Author: George Baehr, M.D.

CHAPTER VI. CONTROL OF DRUGS AND MEDICAL SUPPLIES (WPB, OPA, NRC)

Author: Walter W. Palmer, M.D.

PART II. ARMED SERVICES, PEACE-TIME AGENCIES AND SOCIETIES

CHAPTER I. U. S. ARMY MEDICAL DEPARTMENT

Author: Col. Albert G. Love, M.C., U.S. Army

CHAPTER II. U. S. NAVY MEDICAL DEPARTMENT

Author: Capt. Louis H. Roddis (MC), USN.

CHAPTER III. U. S. PUBLIC HEALTH SERVICE

Author: G. St.J. Perrott

CHAPTER IV. U. S. VETERANS ADMINISTRATION

Author: Martin J. Cooley, M.D.

CHAPTER V. SELECTIVE SERVICE SYSTEM

Authors: Col. Leonard G. Rowntree, M.C., AUS, and
Capt. C. Raymond Wells, USNR

CHAPTER VI. AMERICAN MEDICAL ASSOCIATION AND ASSOCIATED NATIONAL SOCIETIES

Authors: Morris Fishbein, M.D., and Winfred Overholser, M.D.

CHAPTER VII. AMERICAN RED CROSS

Author: G. Canby Robinson, M.D.

CHAPTER VIII. EDUCATIONAL ORGANIZATIONS (UNIVERSITIES)

1. Medical Education

Author: C. Sidney Burwell, M.D., U.S. Army

2. Medical Research

Author: [Authors to be assigned]

CHAPTER IX. PHILANTHROPIC FOUNDATIONS

Author: Alan Gregg, M.D.

CHAPTER X. INTERNATIONAL LIAISON

Author: J. F. Fulton, M.D.

Australia	Inter-American Nations
Canada	New Zealand
China	Russia
Great Britain	South Africa

CHAPTER XI. INTELLIGENCE SERVICES

Author: Col. Carpenter

CHAPTER XII. MEDICAL LIBRARIES

Author: Col. Harold W. Jones, M.C., U.S. Army

CHAPTER XIII. RETRAINING AND REEMPLOYMENT ADMINISTRATION

Author:

CHAPTER XIV. POST-WAR MEDICAL PLANNING

Authors: Roger I. Lee, M.D., and William S. Tillett, M.D.

1. Protection against chemical attack
2. Medical Department organization against a chemical attack
3. Water and food
4. Chemical agents actually used (one section on each agent, to include description, method of employment, tactical results and pathological effects produced)

CHAPTER V. MISSILE PROPPELLING WEAPONS

Authors:

1. Pistols and revolvers
2. Hand operated rifles
3. Semi-automatic rifles
4. Machine guns
5. Mortars
6. Small cannon
7. Bomb-throwing cannon
8. Rocket guns
9. Aerial bombs
 - a. Demolition
 - b. Fragmentation
 - c. Incendiary
 - d. Others

VOLUME II. OFFENSIVE WEAPONS IN RELATION TO INJURY

Editor: Col. George R. Callender, M.C., U.S. Army

[Authors to be assigned]

CHAPTER I. HAND OPERATED CUTTING WEAPONS

Author:

1. Knives
2. Machetes
3. Swords
4. Bayonets

CHAPTER II. CRUSHING WEAPONS

Author:

1. Clubs and falling objects
2. Light cars
3. Prolonged crushing (buildings)

CHAPTER III. INCENDIARY WEAPONS

Author:

1. Flame throwers
2. Arson
3. H.E. incendiaries

CHAPTER IV. CHEMICAL WEAPONS

Authors:

1. Protection against chemical attack
2. Medical Department organization against a chemical attack
3. Water and food
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8. Rocket guns
9. Aerial bombs
 - a. Demolition
 - b. Fragmentation
 - c. Incendiary
 - d. Others

CHAPTER VI. MECHANISM OF MISSILE WOUNDING

Author:

1. Solid bullets
 - a. Small caliber (.22 to .45)
 - b. Large caliber (.50 to 1.5)
2. Exploded bombs: Primary blast and fragments
 - a. Hand grenades
 - b. Ordinary bombs
 - c. High explosive bombs
 - d. Incendiary bombs
 - e. Land mines
 - f. Booby traps
3. Secondary missiles
 - a. Clothing
 - b. Personal armor
 - c. Armored vehicles
 - d. Aircraft
 - e. Soil

CHAPTER VII. PROTECTIVE ARMOR

Author:

1. Personal
2. Fortification

Author:

4. Increased and Decreased Air Pressure

Author:

6. Drowning

Author:

8. Burns (Flash)

Author: Shields Warren, M.D.

7. Thermal and Radiation Lesions

Author: Shields Warren, M.D.

CHAPTER III. LESIONS PRODUCED BY CHEMICAL AGENTS

1. Poisons

Author:

2. War Gases

Author:

3. Asphyxiant

Author:

PART II. THE PATHOLOGY OF DISEASES CHARACTERISTIC OF OR POLYMERIZED BY THE STATE OF WAR (Correlated with Vol. V)

CHAPTER I. MEDICAL WEAPONS

1. Infectious diseases

Author:

2. Parasitic diseases (general, tropical)

Author: Col. J. S. Ash, M.C., U.S. Army

3. Cardiovascular diseases (hypertension, etc.)

Author: Howard C. Leason, M.D.

4. Hemolytic diseases (e.g., malaria)

Author:

VOLUME III. PATHOLOGY

Editor: Edward B. Krumbhaar, M.D.

Assistant Editors: Col. J. E. Ash, M.C., U.S. Army,
and Capt. Otis Wildman (MC), USN

INTRODUCTION: THE ROLE OF THE PATHOLOGIST IN THE WAR EFFORT

Author: Edward B. Krumbhaar, M.D.

PART I. THE PATHOLOGY OF WAR WOUNDS AND CASUALTIES (Correlated with Vol. II)

CHAPTER I. LESIONS PRODUCED BY MODERN MISSILES (MACHINE GUNS, SHRAPNEL, HIGH EXPLOSIVES, etc.) IN SKIN, MUSCLE, BLOOD VESSELS, BONES, JOINTS, SENSE ORGANS, PERIPHERAL NERVES, SPINAL CORD, BRAIN, VISCERA

Author: Col. George R. Callender, M.C., U.S. Army

CHAPTER II. LESIONS PRODUCED BY OTHER PHYSICAL AGENTS

1. Cutting and puncturing instruments

Author: Col. George R. Callender, M.C., U.S. Army

2. Concussion (blast, delayed shock, and explosive effects)

Author:

3. Compression (e.g., falling walls, crushing instruments, tanks, etc.)

Author:

4. Increased and Decreased Air Pressure

Author:

5. Drowning

Author:

6. Burns (flash)

Author: Shields Warren, M.D.

7. Thermal and Radiation Lesions

Author: Shields Warren, M.D.

CHAPTER III. LESIONS PRODUCED BY CHEMICAL AGENTS

1. Poisons

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PART II. THE PATHOLOGY OF DISEASES CHARACTERISTIC OF OR MODIFIED BY THE STATE OF WAR (Correlated with Vol. V)

CHAPTER I. MEDICAL DISEASES

1. Infectious diseases

Author:

2. Parasitic diseases (general, tropical)

Author: Col. J. E. Ash, M.C., U.S. Army

3. Cardiovascular diseases (hypertension, etc.)

Author: Howard T. Karsner, M.D.

4. Hemolytotoxic diseases (e.g., malaria)

Author:

5. Respiratory diseases (e.g., interstitial pneumonia
Authors: Staff, Institute of Pathology, A.U.S.
6. Gastro-intestinal disorders (e.g., trench mouth, dysenteries)
Authors: Staff, Institute of Pathology, A.U.S.
7. Genito-urinary complications (e.g., war nephritis, lympho-
granuloma inguinale)
Author:
8. Affections of the nervous system (e.g., the encephalitides)
Author: Comm. Fothergill, USN
9. Nutritional diseases
Author:
10. Endocrinological syndromes
Author:
11. Tumors
Authors: Staff, Institute of Pathology, A.U.S.
12. Tuberculosis
Author: Col. Esmond R. Long, M.C., A.U.S.
13. Epidemics (e.g., influenza, measles, meningitis, typhus,
cholera, virus diseases, virus jaundice, etc.)
Author:
14. Trench Fever and other agnotogenic diseases
Author:
15. Epidemic hepatitis
Author: Lt.Col. Balduin Lucké, M.C., U.S. Army
16. Rickettsial diseases
Author: Lt.Col. Harry Plotz, M.C.
17. Filariasis [?]
Authors: Capt. R.A. Kern (MC), USN, and Comdr. Robert
Norris (MC), USN

CHAPTER II. SURGICAL DISORDERS (Correlated with Vol. VII)

1. Shock
Author:
2. Gas gangrene
Author:
3. Exhaustion (shipwreck, exposure)
Author:
4. Tetanus
Author:
5. Anesthetic accidents
Author:
6. Transfusion accidents
Author:
7. Body regional lesions (traumatic)
Author:
8. Body regional lesions (not traumatic surgical diseases)
 - a. Eye and Ear
Author: Col. J. E. Ash, M.C., U.S. Army

PART III.

CHAPTER I. MISCELLANEOUS (GENERAL STATEMENT ON INCIDENCE OF DISEASES NOT COVERED INDIVIDUALLY)

1. Unexpected incidences in draftees - e.g., tumors, hypertension.
Authors: Staff, Institute of Pathology, A.U.S.
2. "Highlights"
Author:

5. Outline for the volume on "Major Advances". Drs. Fishbein and Mudd have now submitted their detailed outline for the volume on "Major Advances". It is included herewith for consideration of the Editorial Board.

VOLUME IV. ADVANCES IN PREVENTION, DIAGNOSIS,
AND TREATMENT OF DISEASE IN THE WAR PERIOD

Editors: Morris Fishbein, M.D., and Stuart Mudd, M.D.

INTRODUCTION. Morris Fishbein, M.D.

PART I. MEASURES FOR THE PREVENTION AND CONTROL OF INFECTIOUS DISEASES

Section A. Active Immunization Procedures in Actual Use

CHAPTER I. IMMUNIZATION PROCEDURES USED IN THE ARMED SERVICES,
WITH ANALYSIS OF THE RESULTS

(Authors: To be nominated by the Surgeon General
of the Army and Navy)

1. Tetanus: active immunization with toxoid. Results and comparison of incidence of tetanus and of gas gangrene in wounded
2. Typhoid and paratyphoid fevers: antigenic coverage of strains used. Results in relation to incidence in earlier wars and in period 1918-1941.
3. Smallpox
4. Cholera. Statistical evaluation of efficacy
5. Plague. Statistical evaluation of efficacy
6. Yellow fever
 - a. Evolution of efficacy
 - b. Complications arising from infectious hepatitis
7. Rickettsial diseases
 - a. Active immunization against epidemic typhus
 - b. Active immunization against Rocky Mountain spotted fever
8. Bacillary dysentery
 - a. Vaccine used (if used)
 - b. World incidence of infecting types (with collaboration of Carl Ten Braek, M.D.)
9. Gas gangrene. Toxoids (if used)

Section B. Measures Used for Control of Specific Diseases

CHAPTER II. DETECTION AND CONTROL OF TUBERCULOSIS

Author: Col. Esmond R. Long, M.C., U.S. Army

CHAPTER III. VENEREAL PROPHYLAXIS AND TREATMENT

Authors: J. E. Moore, M.D., and J. F. Mahoney,
Sen. Surg., USPHS

CHAPTER IV. MEASURES FOR THE CONTROL OF INTESTINAL INFECTIONS

(Authors: To be nominated by Surgeons General of
Army and Navy)

1. Environmental sanitation of camps, sewage disposal, and insect suppression.

2. Water supplies
3. Milk and other food

CHAPTER V. CONTROL OF RICKETTSIAL DISEASES

Authors: Lt. Col. Harry Plotz, M.C., U.S. Army,
and Dr. Topping, USPHS

1. Epidemic typhus
2. Rocky Mountain spotted fever
3. Scrub typhus (tsutsugamushi disease)
4. Endemic (murine) typhus

Section C. Investigations Toward Development of New Control Measures for Disease

CHAPTER VI. INVESTIGATIONS OF IMMUNIZATION PROCEDURES FOR INFLUENZA

Author: Thomas Francis, M.D.

1. Work under the Commission on Influenza
2. Work in Navy
3. Work under Rockefeller Foundation

CHAPTER VII. INVESTIGATION OF IMMUNIZATION PROCEDURES AGAINST MEASLES AND MUMPS

Author: Joseph Stokes Jr., M.D.

1. Measles
 - a. Active immunization
 - b. Use of Cohn's v. globulin fraction
2. Mumps
 - a. Active immunization
 - b. Use of v. globulin fraction

CHAPTER VIII. INVESTIGATIONS TOWARD CONTROL OF AIR-BORNE INFECTION

Authors: Alexander Hollander, Senior Biophysicist,
USPHS, and Oswald H. Robertson, M.D.

1. Sampling of air for germ load (Hollander)
2. Ultraviolet irradiation of air (Hollander)
3. Germicidal vapors for disinfection of air (Robertson)

CHAPTER IX. INSECT SUPPRESSIVE MEASURES

Author: Milton C. Winternitz, M.D.

CHAPTER X. THE USE OF CHEMOTHERAPEUTIC AGENTS FOR REDUCTION OF INFECTION RATE IN POPULATIONS

Author: Lt. Comdr. Alvin Coburn (MC), USN

Section D. Global Epidemiology

CHAPTER XI. ABNORMAL DISSEMINATION OF INFECTIOUS DISEASES DUE TO DISLOCATION OF CIVIL POPULATIONS, MOVEMENT OF MILITARY PERSONNEL, AIRCRAFT, ETC.

Author: R. E. Dyer, USPHS

PART II. THE DISCOVERY AND ELABORATION OF NEW THERAPEUTIC AGENTS

CHAPTER XII. BLOOD, BLOOD DERIVATIVES, AND BLOOD SUBSTITUTES

Editor: Robert F. Loeb, M.D.

1. Whole blood
Author: Elmer L. DeGowin, M.D.
2. Plasma
Author: Max M. Strumia, M.D.
3. Partitioning blood plasma into useful fractions
Author: Edwin J. Cohn, M.D.
 - a. Methods
 - b. Serum albumin and its use in shock
 - c. v. globulin and its protective value against several diseases
 - d. Prothrombin
 - e. Fibrinogen
4. Utilization of the red blood corpuscles
Author:

CHAPTER XIII. THE SULFONAMIDES

1. Newer forms, blood levels, uses, etc.
Authors: Chester Keefer, M.D., and E.K. Marshall Jr., M.D.
2. Mechanism of action
Author: M. G. Sevag

CHAPTER XIV. ANTIMALARIALS

1. Clinical uses
Author: James A. Shannon, M.D.
 - a. Quinine: loss; production; new knowledge
 - b. Atabrine: production; new knowledge; blood levels; uses; etc.
2. Newer substances; program of experimental study and its results
Author: William Mansfield Clark

CHAPTER XV. PENICILLIN

1. History of discovery
Author: Sir Howard Florey
2. History of production
Author: A. N. Richards, M.D., or nominee
3. Applications
Author: Chester Keefer, M.D.

CHAPTER XVI. ANTIBIOTICS OTHER THAN PENICILLIN

- Author: Selman A. Waksman
1. Tyrothricin
 2. Newer promising antibiotics
 3. Mechanism of action

CHAPTER XVII. HYPNOTICS, ANALGESICS, ANESTHETICS

Author: E. M. K. Geiling, M.D. [?]

CHAPTER XVIII. TREATMENT OF MOTION SICKNESS

Author: Philip Bard, M.D.

PART III. NEW PROCEDURES IN NEUROLOGY AND PSYCHIATRY

(Outlines by Drs. Overholser and Viets promised)

PART IV. SUMMARY

VOLUME V. CLINICAL MEDICINE

Editor: O. H. Perry Pepper, M.D.

- CHAPTER I. A CRITIQUE OF THE SELECTIVE SERVICE AND INDUCTION EXAMINATIONS
Author: Brig. Gen. C. C. Hillman, M.C., U.S. Army
- CHAPTER II. CONDITIONING OF TROOPS
Author: Brig. Gen. C. C. Hillman, M.C., U.S. Army
- CHAPTER III. INFECTIOUS DISEASES
Author: Francis G. Blake, M.D.
- CHAPTER IV. INFESTATIONS [~~see p. 14-a~~]
Author: F. C. Bishopp, M.D.
- CHAPTER V. TUBERCULOSIS [~~see p. 14-b~~]
Author: Col. Esmond R. Long, M.C., A.U.S.
- CHAPTER VI. TROPICAL DISEASES
Author: Brig. Gen. J. S. Simmons, M.C., U.S. Army
- CHAPTER VII. CARDIOVASCULAR DISEASES [~~see p. 14-c~~]
Author: Paul D. White, M.D.
- CHAPTER VIII. NUTRITIONAL DISEASES
Author: Col. John B. Youmans, M.C., A.U.S.
- CHAPTER IX. GASTRO-INTESTINAL DISEASE
Author: T. T. Mackie, M.D.
- CHAPTER X. VENEREAL DISEASES
Author: Capt. C. S. Stephenson (MC), USN Retired
- CHAPTER XI. OPHTHALMOLOGY (Medical)
Author: Burton Chance, M.D.
- CHAPTER XII. DERMATOLOGY
Authors: Col. Donald M. Pillsbury, M.C.,
and Maj. Clarence Livingood, M.C.,

Chapter on INFESTATIONS

1. Introductory
2. Poisonous arthropods - including spiders, scorpions, centipedes, wasps, and others
3. Mites - including itch mites (scabies), chiggers, tropical rat mites, bird mites, etc.
4. Ticks - including Lone Star, Cayenne, black legged, Rocky Mountain spotted fever, American dog, ear tick, Ornithodoros, and others
5. Lice - including body, head, and pubic
6. True bugs - including bedbugs and kissing bugs
7. Flies and related forms - including mosquitoes, punkies, phlebotomus, black flies, horse flies, Tsetse flies, horse bots, sheep bots, house flies, stable flies, blowflies (Myiasis)
8. Fleas - including chigoe, sticktight, rat, human, dog and cat
9. Urticating insects - including caterpillars, blister beetles, etc.
10. Allergic reaction from insects, insect hairs and scales, and insect bites and stings

"Upon further review I may have some additions or modifications in this breakdown, but I shall of course be glad to have your comment and that of Dr. Fulton."

Chapters in "History of Tuberculosis"
(Col. E. R. Long)

- | <u>Army</u> | <u>NRC</u> |
|--|--|
| 1. Objectives in program | 1. Review of tuberculosis as a general problem in 1940 |
| 2. Tuberculosis in Armies in two wars | 2. Comparison with general situation in 1918. |
| 3. Development of technics for control | 3. Progress in control, 1918-1940 |
| 4. Standards for acceptance of men | 4. Relation of NRC to Army program |
| 5. Induction station procedures | a. Induction standards |
| 6. Rejection for tuberculosis | b. Development of equipment |
| 7. Tuberculosis taken into Army | c. Special problems (pleurisy, spontaneous pneumothorax, etc.) |
| 8. Admission rate in Army hospitals | 5. Reference to Army history |
| 9. Care of tuberculosis in Army | 6. Incidence of tuberculosis in USA and overseas during war |
| 10. Tuberculosis in Army overseas | 7. Development of Federal activity in USA (establishment of division in USPHS) |
| 11. Relations with Veterans Administration | 8. Research on tuberculosis during war |
| 12. Control program for future in Army | 9. General effect of war on tuberculosis in United States |

- - - - -

Dr. Paul Dudley White to Dr. O.H.P. Pepper, 22 August 1944

"The following is a tentative breakdown of the chapter on The Heart and Great Vessels for the Medical History of the War that I have been asked to prepare. I assume that the peripheral circulation will be covered elsewhere. Is that correct?"

The Heart and Great Vessels

1. Introduction
2. Historical
3. Problems of the Induction Examination; Range of the Normal
 - a. Past history (especially as to rheumatic fever, neuro-circulatory asthenia, and paroxysmal tachycardia)
 - b. Symptoms
 - c. Sounds and murmurs
 - d. Heart rate
 - e. Blood pressure
 - f. Heart size including X-ray examination
 - g. Electrocardiogram
 - h. Functional tests

4. Heart disease in military service
 - a. Congenital
 - b. Rheumatic. Rheumatic fever
 - c. Subacute bacterial endocarditis
 - d. Hypertension
 - e. Coronary heart disease
 - f. Neurocirculatory asthenia
 - g. Traumatic
 - h. Miscellaneous
5. After the War
6. Summary and conclusions

- - - - -

VOLUME VI. NEUROLOGY AND PSYCHIATRY

Editor: Winfred Overholser, M.D.
Associate Editor: Henry R. Viets, M.D.

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1. Psychiatric advances resulting from observations in World War I
Author: Winfred Overholser, M.D.
2. Brief summary of advances in World War II
Author: Winfred Overholser, M.D.

CHAPTER II. ENLISTMENT AND INDUCTION

1. Psychiatric disorders as a cause of rejection
Author: R. W. Waggoner, M.D.
2. Problems of recognition of psychiatric disorders at induction stations
Author: Lt. Col. D. A. Thom, M.C.,
3. Psychological contributions to induction
Author:
4. Special screening practices
Author: Lt. Comdr. Leon J. Saul

CHAPTER III. PSYCHOSES ARISING IN SERVICE

1. Schizophrenia
Author: Lt. Col. Henry W. Brosin, M.C.,
2. Manic depressive psychosis
Author: A. M. Duval, M.D.
3. Other psychoses
Author: Lt. Col. Lauren Smith
4. Special problems of treatment
 - a. In the theatre of operations
Author: Major Frederick Hanson, M.C.,
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2. Conversion hysteria
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3. Effort syndrome and other psychosomatic disorders
Authors: Paul White, M.D., and Mandel Cohen, M.D.
4. Other psychoneurotic states
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5. Special types
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Author:
 - b. "Blitz" bombing
Author:
 - c. Aviation neuroses
Author: Col. Roy Grinker, M.C., AUS

6. Methods of treatment.

Author: Capt. Frederick L. McDaniel, (MC), USN

CHAPTER V. MALINGERING

Author: Capt. Herbert X. Spiegel, M.C., A.U.S.

CHAPTER VI. PSYCHOPATHIC PERSONALITY

Author: Lt. Comdr. Leslie B. Hohman (MC), USNR

CHAPTER VII. MENTAL DEFICIENCY

Author: Lt. Col. Soll Goodman, M.C., A.U.S.

CHAPTER VIII. CLINICAL PSYCHOLOGY IN THE SERVICES

Authors: Walter V. Bingham, Ph.D., and Lt. Col. Morton Seidenfeld, A.G.D., A.U.S.

CHAPTER IX. SPECIAL FORMS OF THERAPY

1. Narcosynthesis

Author: Col. Roy R. Grinker, M.C., A.U.S.

2. Electroshock

Author: A. K. Baur, M.D.

3. Occupational therapy

Authors: Mrs. Winifred Kahmann, OTR, and

4. Group therapy and convalescent care.

Author: Lt. Comdr. Howard Rome (MC), USNR

CHAPTER X. PREVENTIVE ACTIVITIES (Consultation centers, Morale, etc.)

Author: Lt. Col. Manfred Guttmacher, M.C., A.U.S.

CHAPTER XI. CONTRIBUTIONS OF SOCIAL WORK TO MILITARY PSYCHIATRY

Author: Margaret Hagan

PART II. NEUROLOGY

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1. Neurological advances resulting from observations in World War I

Author: Henry R. Viets, M.D.

2. A brief summary of advances in World War II

Author: Henry R. Viets, M.D.

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1. Neurological disease most commonly found as a cause of rejection in induction centers

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2. Problems of exclusion of specific diseases such as epilepsy, migraine, trophoneuroses, narcolepsy, etc.

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Editors: I. S. Ravdin, M.D., and
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Editor: Capt. C. Raymond Wells, USNR
Associate Editors: W. Harry Archer, D.D.S.,
and William N. Hodgkin, D.D.S.

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10. Lend Lease
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Authors: Lt. Comdr. D. F. Lynch, USNR, and Elmer S. Best

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- 4. American Dental Association, Associated National Organizations and affiliated groups
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- 6. Department of Labor
Author: Leon R. Kramer
- 7. U.S. Office of Education
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- 8. Federal Security Administration
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- 10. Land Lease
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- 11. Board of Economic Warfare
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- Author: E. F. Weindorfer

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- Author: F. B. Finney

VOLUME IX. AVIATION, TANK, AND SUBMARINE MEDICINE

Editor: H. Cuthbert Bazett, M.D.

Associate Editors: Col. Harry Armstrong, M.C., U.S.

Army, Col. Willard Machle, M.C., U.S. Army,

and Comdr. A. R. Behnke (MC), USN

[Author assignments provisional]

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CHAPTER I. ORGANIZATION OF CIVILIAN AEROMEDICAL RESEARCH AND ITS
ARTICULATION WITH THE SERVICES

Author: Louis B. Flexner, M.D.

CHAPTER II. SELECTION AND TRAINING OF FLYING PERSONNEL

Authors: Prof. Walter R. Miles and

CHAPTER III. THE OXYGEN MASK: OXYGEN EQUIPMENT AND STUDIES ON ANOXIA

Authors: Detlev W. Bronk, Ph.D., A. H. Bulbulian,
C. K. Drinker, M.D., Capt. A. M. Carlson, M.C., A.U.S.,
and Capt. L. Carson (MC), USN

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Authors: John F. Fulton, M.D., and Lt. Col. Grey Hall,
M.C., A.A.F.

CHAPTER V. EXPLOSIVE DECOMPRESSION AND PRESSURE-CABIN AIRCRAFT

Authors: Prof. F. A. Hitchcock, Ph.D., and Lt. Col.
A. Pharo Gagge, A.A.F.

CHAPTER VI. ACCELERATION

Authors: Edward J. Baldes, Ph.D., Lt. Comdr. Henry A.
Schroeder (MC), USNR, and Capt. George Maison, M.C., A.U.S.

CHAPTER VII. MOTION SICKNESS

Authors: Derek Denny-Brown, M.D., and

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Authors: L. H. Newburgh, M.D., and Col. Otis Benson,
M.C., U.S. Army

CHAPTER IX. SENSORY PROBLEMS, INCLUDING VISION AND COCKPIT LIGHTING

Authors: Prof. Walter R. Miles, Prof. Detlev W. Bronk,
and Capt. C. W. Shilling (MC), USN

CHAPTER X. CRASH INJURIES AND DITCHING DRILL

Authors: Eugene F. DuBois, M.D., and Col. J. J. Smith,
M.C., A.U.S.

CHAPTER XI. EMERGENCY RATIONS

Author: Lt. Col. Bruce Dill, M.C., A.U.S.

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CHAPTER XII. AIR SEA RESCUE

Author: Lt. Col. Lawrence Irving, M.C., A.U.S.

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1. Fitness and pilot fatigue

Author: Prof. W. R. Miles and Capt. David Wright, M.C., A.U.S.

2. Psychiatric problems in flying personnel

Author: Lt. Col. Donald Hastings, M.C., A.U.S.

3. Rehabilitation of flying personnel

Author: Col. H. A. Rusk

CHAPTER XIV. AIR AMBULANCES

Author: Col. W. Randolph Lovelace II, M.C., A.U.S.

CHAPTER XV. AVIATION MEDICAL LITERATURE AND BIBLIOGRAPHY

Author: Lt. Comdr. E. C. Hoff (MC), USNR

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*Breakdown of chapters and author assignments to follow.

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CHAPTER I. MEDICAL PROBLEMS OF ARMORED VEHICLES

Author: George M. Smith, M.D.

CHAPTER II. SELECTION OF ARMORED PERSONNEL

Authors: Capt. Arthur Freedman, M.C., and

CHAPTER III. FITNESS AND FATIGUE

Authors: Maj. William B. Bean, M.C., and Maj. L.W. Eichna, M.C.

CHAPTER IV. EFFECTS OF HEAT

Authors: Maj. L. W. Eichna, M.C., and Maj. William B. Bean, M.C.

CHAPTER V. WATER AND SALT REQUIREMENTS

Authors: Maj. Norton Nelson, Sn.C., and

CHAPTER VI. GUN FUMES AND CARBON MONOXIDE

Authors: Maj. Norton Nelson, Sn.C., and

CHAPTER VII. COOLING (VENTILATION) (?)

Authors: Lt. Col. T. F. Hatch, Sn.C., and

CHAPTER VIII. CLOTHING

Authors: Capt. Steven M. Horvath, Sn.C., and

CHAPTER IX. VISION AND FIRE CONTROL

Author: Lt. Col. F. S. Brackett

CHAPTER X. NIGHT VISION AND ILLUMINATION

Authors: Maj. Lester B. Roberts and Lt. Wendell E. Mann

CHAPTER XI. SEATING AND POSITIONING OF CONTROLS

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CHAPTER XIII. DEAFNESS

Authors: Col. Willard Machle, M.C., and Capt. Robert H. Walpole, Jr., FA

CHAPTER XIV. AMPHIBIOUS OPERATIONS

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CHAPTER XV. EMERGENCY RATIONS. TESTING PROCEDURES

Authors: Maj. William B. Bean, M.C., and

VOLUME X. INDUSTRIAL MEDICINE

Editors: C. D. Selby, M.D. and W. M. Gafafer, D.Sc.

CHAPTER I. STATUS OF INDUSTRIAL MEDICINE AT THE BEGINNING OF THE NATIONAL EMERGENCY

Author: Lt. Col. W. J. McConnell, M.C., A.U.S.

CHAPTER II. INDUSTRIAL MEDICINE IN THE OFFICE OF EMERGENCY MANAGEMENT

1. Subcommittee on Industrial Health and Medicine of the Office of Defense Health and Welfare Service

Author: E. C. Holmblad, M.D.

2. Committee on Industrial Medicine of the Office of Scientific Research and Development

Author: E. C. Holmblad, M.D.

3. Committee on Industrial Medicine of the Procurement and Assignment Service

Authors: Creighton Barker, M.D., and George M. Smith, M.D.

4. Medical Division of the Office of Civilian Defense

Author: W. L. Mould, M.D.

CHAPTER III. FIELD ACTIVITIES IN INDUSTRIAL HYGIENE OF THE U.S. PUBLIC HEALTH SERVICE AND OFFICIAL STATE AND LOCAL SOCIETIES

Authors: J. G. Townsend, M.D., and J. J. Bloomfield

CHAPTER IV. INDUSTRIAL HYGIENE AND MEDICINE IN THE UNITED STATES ARMY

Author: Col. A. J. Lanza, M.C., A.U.S.

CHAPTER V. INDUSTRIAL HYGIENE AND MEDICINE IN THE UNITED STATES NAVY

Author: Capt. C. S. Stephenson (MC), USN Retired

CHAPTER VI. INDUSTRIAL HYGIENE AND MEDICINE IN THE UNITED STATES MARITIME COMMISSION

Author: Philip Drinker, Ch.E., D.Sc.

CHAPTER VII. INDUSTRIAL HYGIENE CONTRIBUTIONS BY THE BUREAU OF MINES

Author: R. R. Sayers, M.D.

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1. In the conservation of manpower

Author: V. A. Zimmer

2. In the Women's Bureau

Author: Jennie Mohr

CHAPTER IX. DEVELOPMENT OF ESSENTIAL RESEARCHES

1. In the National Institute of Health

Author: P. A. Neal, M.D.

2. In the National Research Council

Author: W. P. Yant

CHAPTER XVI. STATUS OF INDUSTRIAL MEDICINE AT THE TERMINATION OF THE WAR

Author: Lt. Col. W. J. McConnell, M.C., A.U.S.

CHAPTER XVII. SUMMARY AND CONCLUSIONS

Author: C. D. Selby, M.D.

CHAPTER X. PROGRESS IN EDUCATION

1. In industrial hygiene
Author: O. J. Johnson, M.D.
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Author: C. M. Peterson, M.D.

CHAPTER XI. THE PROMOTION OF INDUSTRIAL HEALTH BY UNOFFICIAL AGENCIES

Author: Col. A. J. Lanza, M.C., A.U.S.

CHAPTER XII. NEW METHODS AND SPECIAL DISEASE CONTROL PROGRAMS

1. Industrial psychiatry
 - a. General developments in the field
Author: Lydia G. Giberson, M.D.
 - b. The Michigan Industrial Mental Health Council
Author: H. G. Webster
2. Industrial psychology
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CHAPTER XIII. ACTIVITIES IN THE FIELD OF NURSING IN RELATION TO INDUSTRIAL HEALTH

Author: F. Ruth Kahl, R.N.

CHAPTER XIV. HEALTH PROBLEMS OF WOMEN IN INDUSTRY

Author: Dorothy L. Frame, M.D.

CHAPTER XV. DEVELOPMENTS IN THE FIELD OF WORKMEN'S COMPENSATION

Author: T. C. Waters

CHAPTER XVI. STATUS OF INDUSTRIAL MEDICINE AT THE TERMINATION OF THE WAR

Author: Lt. Col. W. J. McConnell, M.C., A.U.S.

CHAPTER XVII. SUMMARY AND CONCLUSIONS

Author: C. D. Selby, M.D.

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VOLUME XI. PUBLIC HEALTH

Editors: Thomas Parran, M.D. and G. St.J. Perrott

CHAPTER VII. TUBERCULOSIS

1. Establishment of Tuberculosis Control Section

CHAPTER I. HEALTH ORGANIZATION AND FACILITIES

Author:

1. Public health structure in 1940
2. Legislation and appropriations

CHAPTER II. HEALTH MANPOWER

Author:

1. Recruitment, training and assignment of health personnel
2. Nurse Training Programs
3. Training of Health Educational Personnel

CHAPTER III. EXPANDING HEALTH SERVICES FOR THE EMERGENCY

Author:

1. Reconnaissance surveys
2. Environmental sanitation
3. Safe water, milk, and food
4. Health and medical services
5. Investigation and approval of Lanham Act projects

CHAPTER IV. THE HEALTH OF A NATION AT WAR

Author:

1. Statistical changes in the health picture
2. Major outbreaks of epidemic disease
3. Foreign quarantine

CHAPTER V. MALARIA CONTROL

Author:

1. Control and results up to 1940
2. Office of Malaria Control in War Areas
3. Operations and accomplishments
4. The triumvirate of modern malaria control: Medicine, entomology, engineering
5. Problems of returning troops
6. Malaria eradication program
7. Aedes Aegypti control

CHAPTER VI. VENEREAL DISEASE CONTROL

Author:

1. Activities up to 1940
2. Mass blood-testing program
3. State programs
4. Special activities in military and war industrial areas
5. Cooperation with other agencies
6. Rapid treatment - methods and facilities
7. Research

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6. Rapid treatment - methods and facilities
7. Research

CHAPTER VII. TUBERCULOSIS CONTROL

Author:

1. Activities up to 1940
2. Establishment of Tuberculosis Control Section
3. Mass chest X-ray; microfilm development
4. Selective Service examinations and follow-up
5. Veterans program
6. Follow-up, record keeping, and treatment facilities
7. Research

CHAPTER VIII. RESEARCH

Author:

1. Redirecting research to war needs
2. Cooperation with National Research Council, Army, and Navy
3. New and improved biologic agents
4. Industrial toxicology
5. Tropical diseases
6. Preparation of biologics for armed forces
7. Testing of protective equipment and devices, Army and Navy
8. Consultant functions of the National Institute of Health

CHAPTER XIV. PROGRAMS WITH OTHER AGENCIES

Author:

1. War Production Board
2. War Relocation Administration
3. National Youth Administration
4. Federal Public Housing Authority
5. Federal Works Agency

CHAPTER X. HEALTH EDUCATION

Author:

1. New health education techniques
2. Demonstration programs
3. Venereal disease
4. Malaria
5. Tuberculosis
6. Industrial hygiene
7. Food handlers

CHAPTER XI. MEDICAL SERVICES FOR U. S. PUBLIC HEALTH SERVICE BENEFICIARIES

Author:

1. Marine Hospitals
2. Fort Worth, Texas, and Lexington, Kentucky, Hospitals
3. Medical care program of the American Merchant Marine
 - a. Cooperation with War Shipping Administration
 - b. Training of hospital corpsmen
4. Other beneficiaries

CHAPTER XII. THE COAST GUARD MEDICAL SERVICE

Author:

1. Organization of the Coast Guard Medical Service
2. Personnel
3. Recruitment and training
4. Pharmacist Mate training and services
5. Venereal Disease Program
6. Steamboat inspection
7. Public Health Service officers on combat duty

CHAPTER XIII. INTERNATIONAL HEALTH RELATIONS

Author:

1. Medical Commission to China
2. Burma Road Commission
3. Pan American Sanitary Highway
4. Office of Foreign Relief and Rehabilitation
5. United Nations Relief and Rehabilitation
6. Pan American Sanitary Bureau
7. U. S. Typhus Commission and other special assignments

CHAPTER XIV. PROGRAMS WITH OTHER AGENCIES

Author:

1. War Production Board
2. Farm Security Administration
3. National Youth Administration
4. Federal Public Housing Authority
5. Federal Works Agency
6. War Manpower Commission
7. Procurement and Assignment
8. Office of Civilian Defense
9. Special assignments of Public Health Service Officers

CHAPTER XV. UNITED STATES COAST GUARD HOSPITAL FACILITIES

Author: Asst. Surg. Gen. Carl Michael, M.D., U.S.C.G.

1. Coast Guard Training Stations
2. Reception Stations
3. Shore Stations
4. Ships

CHAPTER XVI. UNITED STATES VETERANS ADMINISTRATION HOSPITALS

Author: Brig. Gen. Frank T. Bliss

1. Pre-emergency Facilities
2. Operations during Defense and War Periods
3. Cooperation in Civilian Defense

CHAPTER XVII. CIVILIAN HOSPITALS (Practical outline)

1. Introductory - The Place of the Civilian Hospital in the Community and the Nation in Peace and in War

Author: Gen. Alphonse M. Schwimmler, M.D.

2. Preparation of the Civilian Hospital for all Types of Emergencies

Author: Nathaniel W. Faxon, M.D.

- a. Emergency Management
- b. Accidents

VOLUME XII. HOSPITAL ORGANIZATION AND NURSING

Editor: Malcolm T. MacEachern, M.D.

PART I. HOSPITAL ORGANIZATION

CHAPTER I. UNITED STATES ARMY MEDICAL STATIONS AND HOSPITALS (CONSTRUCTION AND ADMINISTRATION)

Authors: Col. John H. Hall, M.C., U.S. Army (Construction)
and Col. H. D. Offutt, M.C., U.S. Army (Administration)

1. Theater of Operations
 - a. Aid and Clearing Stations
 - b. Mobile Hospitals
 - i. Surgical Hospitals
 - ii. Evacuation Hospitals
 - c. Fixed Hospitals
 - i. Numbered Station Hospitals
 - ii. Numbered General Hospitals
2. Zone of the Interior
 - a. Named Station Hospitals
 - b. Named General Hospitals

CHAPTER II. UNITED STATES NAVAL HOSPITALS

Authors: Capt. Louis H. Roddis (MC), USN, and Capt.
Lucius M. Johnson (MC), USN.

1. United States Naval Hospitals
2. Hospital Ships
3. Mobile Base Hospitals

CHAPTER III. UNITED STATES PUBLIC HEALTH SERVICE HOSPITALS

Author: Asst. Surg. Gen. R. C. Williams

1. Marine Hospitals
2. Special United States Public Health Service Hospitals

CHAPTER IV. UNITED STATES COAST GUARD HOSPITAL FACILITIES

Author: Asst. Surg. Gen. Carl Michel, M.C., U.S.C.G.

1. Coast Guard Training Stations
2. Induction Stations
3. Shore Stations
4. Ships

CHAPTER V. UNITED STATES VETERANS ADMINISTRATION HOSPITALS

Author: Brig. Gen. Frank T. Hines

1. Pre-emergency Facilities
2. Additions during Defense and War Periods
3. Cooperation in Civilian Defense

CHAPTER VI. CIVILIAN HOSPITALS [Provisional outline]

1. Introductory - The Place of the Civilian Hospital in the Community and the Nation in Peace and in War

Author: Rev. Alphonse M. Schwitalla, S.J.

2. Preparedness of the Civilian Hospital for all Types of Emergencies

Author: Nathaniel W. Faxon, M.D.

- a. Emergency Illnesses
- b. Accidents

Editor: Malcolm T. MacEachern, M.D.

PART I. HOSPITAL ORGANIZATION

CHAPTER I. UNITED STATES ARMY MEDICAL STATIONS AND HOSPITALS (CONSTRUCTION AND ADMINISTRATION)

Author: Col. John H. Bell, M.C., U.S. Army (Construction)
 and Col. H. P. Orvot, M.C., U.S. Army (Administration)

1. Theater of Operations
- a. Aid and Clearing Stations
- b. Mobile Hospitals
- c. Surgical Hospitals
- d. Evacuation Hospitals
- e. Fixed Hospitals
- f. Manned Station Hospitals
- g. Manned General Hospitals
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2. Special United States Public Health Service Hospitals

CHAPTER IV. UNITED STATES COAST GUARD HOSPITAL FACILITIES

Author: Asst. Surg. Gen. Carl Michel, M.C., U.S.C.G.

1. Coast Guard Training Stations
2. Inland Stations
3. Shore Stations
4. Ships

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Author: Rev. Alphonse M. Schwitalla, S.J.
2. Preparedness of the Civilian Hospital for all Types of Emergencies

Author: Nathaniel W. Foxon, M.D.

 - a. Emergency Illnesses
 - b. Accidents

- c. Catastrophes and Disasters
 - d. Cooperation with the Office of Civilian Defense
 - e. Blood and Plasma Banks
 - f. Penicillin Distribution
3. Organization and Services of Civilian Hospital Units in Theaters of War

Author: Arthur C. Bachmeyer, M.D.

- a. Base Hospitals
 - b. Evacuation Hospitals
 - c. Surgical Hospitals
 - d. Hospitals in Occupied Areas
- (List of hospital units with brief history of each)
4. Other Cooperation with the War Effort

Author: Robin C. Buerki, M.D.

- a. Aid to Procurement and Assignment Service in establishing status of medical personnel as to availability for military duty or desirability of deferment as essential for civilian service
 - b. Adjustment of Intern and Resident Training Programs to conform with 9-9-9 Plan
 - c. Assistance to military hospitals in caring for the wounded in theaters of war (Hawaii, Philippines, etc.)
 - d. Service to the ill and injured in the crowded communities surrounding military camps
 - e. Rehabilitation of selective service registrants rejected for remediable physical deficiencies
 - f. Hospitalization Aspects of Emergency Maternity and Infant Care Program for Wives and Infants of Enlisted Men
 - g. Cooperation with Physical Rehabilitation Section, Office of Vocational Rehabilitation
5. Caring for Wounded Civilians - Participation in Civilian Defense Program

Author:

- a. Organization of personnel
- b. Formation of medical units
- c. Classification as evacuation hospital, base hospital
- d. Provision for first aid posts and training and casualty stations
- e. Additions to emergency facilities in the hospital
- f. Plans for converting other buildings on the hospital grounds for emergency purposes, such as nurses' homes, employes' quarters, unused space, and the like, which might be used to accommodate patients
- g. Provision of ambulances, catastrophe units, and other mobile facilities
- h. Training of personnel, including volunteers
- i. Coordination between hospitals, individually and through local hospital councils, state associations, or other bodies, for shifting of patients, exchange of personnel and equipment, and other purposes
- j. Safeguarding the hospital and patients
 - i. Protection of buildings and equipment
 - ii. Drills and signal systems
 - iii. Evacuation procedures
 - iv. Maintenance of service during blackouts

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6. Protecting the Army of Production
 - Author: Fred G. Carter, M.D.
 - a. Cooperation with medical services in industry
 - b. Additions to facilities in areas of expanded industrial activity
 - c. Meeting the problems of caring for victims of disasters resulting from sabotage and accidents in industrial plants, particularly those producing war materials
7. Operating Difficulties Met During the War
 - Author: James A. Hamilton
 - a. Shortages of material - saving, salvaging, standardizing, substituting
 - b. Rationing problems
 - c. Obtaining priorities for necessary construction materials and other supplies
 - d. Shortages of personnel
 - i. Efficiency through education and morale building
 - ii. Delegation of routine duties to less highly trained personnel
 - iii. Stabilization programs
 - iv. Utilization of volunteer workers
 - v. Interchange of personnel among hospitals
 - vi. Recalling of inactive workers to service
 - e. Overcrowding of hospitals
8. Integration of War Efforts by Hospitals
 - Author: Claude W. Munger, M.D.
 - a. Association activities, conferences, committees
 - i. American Hospital Association
 - ii. American Medical Association
 - iii. American College of Surgeons
 - iv. Catholic Hospital Association
 - v. Protestant Hospital Association
 - vi. Other groups
 - b. Hospital journals
 - c. Hospital libraries
 - d. Governmental committees and publications
 - e. Cooperation with hospitals in allied countries
9. Hospital Performance During the War
 - Author: Bert W. Caldwell, M.D.
 - a. Patient census compared with prewar years
 - b. Mortality rate compared with prewar years
 - c. Outstanding accomplishments under emergency conditions
10. Hospitals at the Close of the War
 - Author: Benjamin W. Black, M.D.
 - a. Total facilities with wartime additions
 - b. Government aid to voluntary hospitals
 - c. Replacements, additions, and modernization needed
 - d. Reorganization of personnel for peacetime operations
 - e. Replanning of educational programs to meet new needs
 - f. Rehabilitation of war wounded
 - g. Integration of civilian hospitals and civic, social and governmental agencies to raise health standards
 - h. International cooperation among hospitals

~~"The Committee felt that we should proceed with our plan to get a writer and research worker who could do the total job rather than to have separate authors for each chapter. However, we will select a group of collaborators made up of the people most familiar with each subject to act in a consultant capacity to the writer and research worker. Therefore, we are not sending you the names of the authors, but I presume you will want to carry my name and that of Mrs. Wickenden as Editor and Associate Editor.~~

~~"The Committee also voted that a list of the casualties among nurses in military service and a list of those who have received distinguished military honors be included in an appendix.~~

~~"There is great interest among the members of the Nursing Committee for proceeding with this project and I hope the funds will soon be available for us to get under way. If you have any report on the progress of getting financial help, we shall be glad to hear about it."~~

HISTORY OF NURSING

Editor: Alma C. Haupt
Associate Editor: Elmira B. Wickenden

PART I. WAR NURSING NEEDS AND ORGANIZATION

CHAPTER I. RÉSUMÉ OF NURSING SITUATION PRIOR TO AND AT ONSET OF WORLD WAR II

- Lessons learned from World War I
- Lessons learned from the depression

CHAPTER II. TOTAL WAR NURSING NEEDS

1. Graduate nurses for
 - a. Military service
 - b. Civilian service
2. Student nurses
3. Auxiliary nursing personnel
 - a. Volunteer nurses' aides
 - b. Paid nurses' aides
 - c. Practical nurses
 - d. Auxiliary personnel in military service

CHAPTER III. WAR EMERGENCY ORGANIZATION FOR NURSING

1. Professional organization
 - a. National Nursing Council for War Service
 - b. State and local councils
2. U. S. Government
 - a. Sub-Committee on Nursing
 - b. Office of Civilian Defense
 - c. Nursing Education Division - U.S. Public Health Service
 - d. Procurement and Assignment
 - e. Council of Federal Nursing Services

CHAPTER IV. WARTIME ADJUSTMENTS OF PROFESSIONAL ORGANIZATIONS

CHAPTER V. WARTIME ADJUSTMENTS OF AMERICAN RED CROSS NURSING SERVICE

PART II. MAJOR WAR NURSING ACTIVITIES

CHAPTER I. SUPPLY AND DISTRIBUTION

- Inventory - Council
- Sub-Committee on Nursing - Office of Defense Health and Welfare Services
- Procurement and Assignment Service - War Manpower Commission
- U. S. Public Health Service

CHAPTER II. GOVERNMENT WAR NURSING ACTIVITIES

1. Army
2. Navy
3. U. S. Public Health Service
 - Three Nursing Services
4. Veterans' Administration
5. Office of Indian Affairs
6. U. S. Children's Bureau
7. Civil Service Commission
8. War Relocation Authority
9. Office of Food Administration
10. Other

CHAPTER III. RECRUITMENT OF STUDENTS

- The problem
- Organization
- Financing
- Program
- Results

CHAPTER IV. ADJUSTMENTS IN NURSING EDUCATION

1. Survey by Miss Stewart for Office of Education
2. 1st Government appropriation U. S. Public Health Service 1941
3. Adjustments in
 - a. Basic education (acceleration, etc.)
 - b. Post-graduate education
4. U. S. Cadet Nurse Corps
5. Adjustments made by State Boards of Nurse Examiners

CHAPTER V. ADJUSTMENTS IN NURSING SERVICE, INCLUDING THE EFFECTS OF ADVANCES IN THERAPY ON NURSING SERVICE

- Private duty
- Institutional nursing
- Public Health Nursing
- Industrial nursing
- Auxiliary nursing

CHAPTER VI. PUBLIC INFORMATION AND LAY PARTICIPATION

PART III. DUPLICATIONS FOR THE FUTURE

CHAPTER I. EVALUATION OF STRENGTHS AND WEAKNESSES OF ORGANIZATION AND PROGRAMS

CHAPTER II. POST-WAR PLANNING

VOLUME XIII. CIVILIAN DEFENSE

Editor: George Baehr, M.D.

With the assistance of

W. P. Dearing, M.D. and Miss Lois Stice

CHAPTER I. CIVILIAN DEFENSE - A NEW FACTOR IN WARFARE

1. Civilians in earlier wars
2. British blitz

CHAPTER II. DEFENSE ACTIVITIES BEFORE OCD

1. Federal
 - a. War Department
 - b. National Defense Advisory Commission, Division of State and Local Cooperation
2. State and city

CHAPTER III. ORGANIZATION OF THE MEDICAL DIVISION, OCD

CHAPTER IV. BRITISH EMERGENCY MEDICAL EXPERIENCE

1. British publications
2. Missions to Britain
3. Missions from Britain to U. S.

CHAPTER V. DEVELOPMENT OF EMERGENCY MEDICAL SERVICE

1. Field Casualty Service
 - a. Plan of operation
 - b. Training in First Aid and Field Care of the Injured
 - c. Service for industrial plants
 - d. Emergency mortuary service
2. Equipment and supplies
3. Blood and plasma banks
4. Hospitals
 - a. Organization of Casualty Receiving and Emergency Base Hospitals
 - b. Joint program with Federal Security Agency for financing hospitalization
5. OCD-USPHS Affiliated Hospital Units
 - a. Planning and recruitment
 - b. Service for Army
 - c. Educational program
6. Medical service for evacuees

CHAPTER VI. NURSING PROGRAM

1. Nursing in the Emergency Medical Service
2. USPHS Nursing Units
3. Nurses' Aide program

CHAPTER VII. GAS DEFENSE

1. Early OCD activities; War Department Civilian Protection Schools
2. Gas Protection program
 - a. Training of physicians, gas officers and gas reconnaissance agents
 - b. Equipment and techniques
 - c. Public education

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CHAPTER VIII. SANITARY ENGINEERING

1. Emergency Water program
2. Emergency Sanitation programs
3. Rôle of Health Departments
4. Assistance of staff in gas defense and rescue services

CHAPTER IX. RESCUE SERVICE

1. Early organization under Fire Service
2. Establishment as separate service
3. Pilot schools and training program
4. Cooperation with Bureau of Mines
5. Rescue Service in action at disasters

CHAPTER X. MEDICAL INTELLIGENCE

1. Liaison with National Research Council
2. Liaison with British agencies
3. Study of clinical problems of casualty care

CHAPTER XI. WAR CIVILIAN SECURITY

1. Joint program of USPHS and OASI
2. EMS supervision of operation

CHAPTER XII. ASSISTANCE IN CIVILIAN MEDICAL PROBLEMS ARISING FROM THE WAR

1. Training of volunteers to relieve personnel shortages
 - a. Volunteer Nurses' Aides
 - b. Hospital Men Volunteers
 - c. Other volunteers in health fields
2. Acceleration of nursing education
 - a. Cooperation with USPHS in formation of Cadet Nurse Corps
3. Preserving essential facilities for civilian use

CHAPTER XIII. SUMMARY AND RECOMMENDATIONS

1. Compilation of direct and indirect evidence on nutritional status of American people with emphasis on the armed forces, industrial workers and vulnerable groups

CHAPTER I. MILITARY STAMENING, UNITED STATES OF AMERICA, AS COMPARED WITH CANADA, THE UNITED KINGDOM, THE U.S.S.R.

CHAPTER II. REVIEW OF ALLOWANCES FOR ALLOWANCES OF THE DIFFERENT FOOD

CHAPTER III. REVIEW OF DIRECT AND INDIRECT EVIDENCE ON NUTRITIONAL DEFICIENCY

VOLUME XIV. FOOD SUPPLY AND NUTRITION

Editor: F. G. Boudreau, M.D.

PART I. PREWAR FOOD SUPPLY AND NUTRITION IN UNITED STATES OF AMERICA

CHAPTER I. FOOD SUPPLY 1930-1940

Author:

1. Data on production of exports and imports

CHAPTER II. DIETARY DATA

Author:

1. Compilation of dietary studies throwing light on adequacy of diets measured by modern standards in various regions and income groups

CHAPTER III. NUTRITIONAL STATUS OF AMERICAN PEOPLE

Author:

1. Compilation of evidence on health and nutritional status of American people in prewar years

PART II. FOOD SUPPLY AND NUTRITIONAL STATUS OF AMERICAN PEOPLE DURING THE WAR YEARS

CHAPTER I. IMPACT OF THE WAR ON FOOD PRODUCTION, EXPORTS, AND IMPORTS

Author:

CHAPTER II. DIETS DURING THE WAR, 1941-

Author:

1. Compilation of data on diets during the war, with special reference to rations of the armed forces, industrial workers, and vulnerable groups

CHAPTER III. NUTRITIONAL STATUS DURING THE WAR

Author:

1. Compilation of direct and indirect evidence on nutritional status of American people with emphasis on the armed forces, industrial workers and vulnerable groups

PART III. ADVANCES IN OUR KNOWLEDGE OF FOOD AND NUTRITION DURING THE WAR

CHAPTER I. DIETARY STANDARDS: UNITED STATES OF AMERICA, AS COMPARED WITH CANADA, THE UNITED KINGDOM, THE U.S.S.R.

Author:

CHAPTER II. REVIEW OF EVIDENCE FOR ALLOWANCES OF THE DIFFERENT FOOD FACTORS

Author:

CHAPTER III. METHODS OF DETECTING NUTRITIONAL DEFICIENCIES

Author:

CHAPTER IV. REVOEW OF EVIDENCE BROUGHT OUT DURING THE WAR (much unpublished material) RELATING TO SUCH METHODS
Author:

PART IV. INTERNATIONAL ASPECTS OF FOOD SUPPLY AND NUTRITION

CHAPTER I. INTERNATIONAL ASPECTS OF FOOD SUPPLY AND NUTRITION
Author:

CHAPTER II. IN THEIR RELATION TO UNITED STATES OF AMERICA
Author:

CHAPTER III. THE COMBINED FOOD BOARD
Author:

CHAPTER IV. THE UNITED NATIONS CONFERENCE ON FOOD AND AGRICULTURE
AT HOT SPRINGS
Author:

CHAPTER V. THE UNITED NATIONS INTERIM COMMISSION ON FOOD AND AGRICULTURE
Author:

CHAPTER VI. THE UNITED NATIONS ADMINISTRATION ON RELIEF AND REHABILITATION
Author:

"In some sections, especially the introductory and concluding chapters, there will be occasions for interpretation as well as summarization. Such interpretations will presumably be subject to the approval of the Editorial Board.

"When it comes to actual writing, the author will doubtless need technical advice on or approval of various sections, and trusts that it will be possible to request this from the volume editors.

"There remains, finally, the question whether this volume should be viewed as a conclusion or as an introduction. The former function has doubtless been taken for granted up to this point. After considering the possible contents of the first chapter, however, something might be said for making this the introductory or first work in the series. If citations are to be given here, these would usually refer simply to volume and page references in the other volumes, and so would introduce general readers to the same. This would also suggest a possible advantage in putting this at the front of the series.

"Suggestions on any of these points will be appreciated."

VOLUME XV. RÉSUMÉ

Richard Harrison Shryock, Ph.D.

CHAPTER I. WAR AND MEDICINE

"High lights" of medicine during present war
 Historical relations of war and medicine
 Status of American medicine on eve of war
 Complexity of medical story in total war
 Major aspects
 Permanent significance of medical advances during war
 Previous and present histories of war medicine

CHAPTER II. ORGANIZATION & RESEARCH (I)

War emergency organizations of U.S. government
 The armed services
 Civilian agencies

CHAPTER III. INDUCTION FOR THE ARMED SERVICES (III, IV, V, VI)

Medical selection
 Immediate care of inductees
 Evidence concerning the public health

CHAPTER IV. HEALTH PROBLEMS OF THE SERVICES BEHIND THE FRONT (IV, V, VI, VIII)

CHAPTER V. THE PUBLIC HEALTH (VI, VIII, X, XI, XIII, XIV)

Preventive medicine
 U. S. and state services and activities
 Private agency activities
 Special problems (venereal disease, etc.)

Nutrition
Industrial medicine
Health education
Public attitudes
Disease trends

CHAPTER VI. CLINICAL MEDICINE AND THERAPY (IV, V, VI)

CHAPTER VII. INJURIES IN BATTLE AND ACCIDENT (II, III, VI, XIII)

Types of weapons and related injuries
Pathology

CHAPTER VIII. SURGERY (VII, VIII)

CHAPTER IX. MEDICAL PROBLEMS IN SPECIAL TYPES OF WARFARE (IX)

Aviation
Tanks
Submarines

CHAPTER X. HOSPITALS & NURSING (XII)

Military, naval hospitals, etc.
Participation of civilian hospitals in war effort
The nursing profession

CHAPTER XI. CONCLUSIONS (I, III, IV, XI)

Over-all picture of disease and casualties in the service
Recovery rates, cf. with past wars
Civilian morbidity and mortality
Major advances and their significance
General influence of the war on medical science and practice
Post-war medical planning

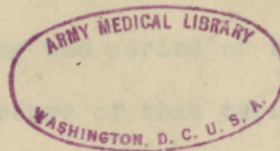
[Revised draft for meeting
of 14 October 1944]

GUIDE FOR AUTHORS

MEDICAL HISTORY OF THE SECOND WORLD WAR

Compiled by the Editorial Board

Subcommittee on Historical Records
Committee on Information



Division of Medical Sciences
NATIONAL RESEARCH COUNCIL
Washington, D.C.
1944

INTRODUCTION

Authors and editors who have accepted assignments for the Medical History of the War have requested advice concerning the scope of the History, and they have asked also for instruction concerning style. This brochure has been compiled by the Editorial Board in response to these enquiries.

The Medical History of the War is to be a record of organization, research, and practice of medicine during the war period which began in 1939. In presenting their subjects, authors should take into account work done by all the services and by civilian agencies and private individuals, so that a composite picture based on the divergent experiences of all services and agencies may emerge. It is not the purpose of this History to discuss details of administration nor actions in individual war theaters, unless they have a direct bearing on therapeutic problems. The primary aim is to record how by national enterprise and international cooperation medical science, clinical experience, and executive organization were integrated and utilized to care for the health of both combatants and civilians during the period of national emergency.

To be a "history" in the strict sense of that term failures must be recorded as well as successes. A terse, clear narrative style is essential. Technical details should be written for the general medical reader rather than for the specialist. Names of institutions and persons may be included when useful to the narrative. Writers should keep before them the questions: What was the problem? Why did we work at it? Who did the work? Where? How? What were the scientific and practical principles involved? What were the difficulties? Did we get a satisfactory answer? Was the result applied practically? What were the lessons for those who follow us?

The nature of the separate chapters which make up these volumes will necessarily vary with the subjects. A chapter on a phase of aviation physiology,

INTRODUCTION

Authors and editors who have accepted assignments for the Medical History of the War have requested advice concerning the scope of the history, and they have asked also for instruction concerning style. This brochure has been compiled by the Editorial Board in response to these enquiries.

The Medical History of the War is to be a record of organization, research, and practice of medicine during the war period which began in 1939. In presenting their subjects, authors should take into account work done by all the services and by civilian agencies and private individuals, so that a composite picture based on the divergent experiences of all services and agencies may emerge. It is not the purpose of this history to discuss details of administration nor actions in individual war theaters, unless they have a direct bearing on therapeutic problems. The primary aim is to record how by national enterprise and international cooperation medical science, clinical experience, and executive organization were integrated and utilized to care for the health of both combatants and civilians during the period of national emergency.

To be a "history" in the strict sense of that term failures must be recorded as well as successes. A terse, clear narrative style is essential. Technical details should be written for the general medical reader rather than for the specialist. Names of institutions and persons may be included when useful to the narrative. Writers should keep before them the questions: What was the problem? Why did we work at it? Who did the work? Where? How? What were the scientific and practical principles involved? What were the difficulties? Did we get a satisfactory answer? Was the result applied practically? What were the lessons for those who follow us?

The nature of the separate chapters which make up these volumes will necessarily vary with the subjects. A chapter on a phase of aviation physiology,

for example, may become essentially a review of current progress similar to an article in Physiological Reviews. A chapter on hospital organization, on the other hand, will probably deal chiefly with executive planning. Each of the projected volumes will have a maximum length of 300,000 words.

The time to begin collecting essential sources is now - for otherwise much ephemeral material will be lost sight of. Chapter outlines should be submitted as early as possible to volume editors.

I. PREPARATION OF COPY

The following suggestions are presented for the convenience of authors, volume editors, and their secretarial staffs in the interest of uniformity in matters of spelling, abbreviation, references, and the preparation of copy.

Typing. Manuscripts should be typed in double space with liberal (e.g., 15 spaces) margins on all sides. The original typewritten copy should be sent flat by mail or express. Corrections of the typescript should be typewritten or written legibly in ink.

Headings. The Board wishes to avoid unnecessary textual subdivisions, but headings may be used if they are needed to clarify the text. When detailed subdivision is essential, the following scheme may be used. The first division is marked with a capital Roman numeral (midline capitals); the second with a capital letter and the caption will be underlined (midline large and small capitals); the third, if needed, with an Arabic numeral (midline italics); the fourth with a lower case letter (paragraph heading, large and small capitals); the fifth with a lower case Roman numeral (paragraph heading italics). It is to be hoped that fewer divisions will be used, but if more are actually needed, the last three divisions may be repeated in parentheses: i.e., I, A, 1, a, i, (1), (a), (i). Thus the first heading will appear as follows:

I. DISCOVERY OF PENICILLIN

If a second midline heading is required, it is set up:

A. FLEMING'S EXPERIMENTS

Notice that there is no period following the heading, and that the text begins two lines below. The printer will understand that large and small capitals, not ordinarily available on a typewriter, are called for. The third weight of midline heading calls for italics:

1. Early extracts of penicillin notatum

A period is not placed after the heading and only the first word is capitalized. Lower case underlined is a standard indication to any printer that italics are requested.

a. THE FOURTH DIVISION. As with the second midline heading, this division calls for large and small capitals, but if only one weight of paragraph heading is required, an italic will be used as in this Guide. Thus

i. The fifth division. If only two weights of heading are required, this, the fifth division, may be used without the small Roman numeral.

Indices. Each volume will have a separate index (subject and author) and there will be a comprehensive index at the end of the series.

Spelling. Spelling should follow American usage. Preferences in the use of the al endings in such words as "physiological," "pathological," etc. will be recognized. Words such as "honcr," "favor," "fiber", should be spelled in accordance with current American practice. Webster's Dictionary should be consulted for unusual words, and the American illustrated medical dictionary (Dorland, 20th ed.) for medical terms. BNA terminology is preferred for anatomical words only when a good vernacular equivalent is unavailable. Eponyms should be avoided. For diagnoses and names of operations, follow Standard

nomenclature of diseases, 1942.* This usage has been incorporated in the new edition of Dorland's Dictionary.

Hyphens. Wherever possible, hyphens are to be avoided, especially in noun combinations such as blood count, blood pressure, knee jerk, serum titer, etc.

Footnotes. Footnotes should be typed in double space on separate sheets and numbered consecutively for any given chapter. Indication of their place of occurrence in the text should be clearly indicated in pencil on the margin unless citations are numerous. Bibliographical references to source material will be run as footnotes; textual annotations will be treated similarly.

II. STYLE AND SPECIAL USAGE

The following suggestions concerning style and special usage, particularly military usage, are drawn in part from the Government Printing Office (GPO) Style manual and from the current Style sheet of the Office of Strategic Services (OSS).

Military designations. Practices of the Army and Navy differ; it is essential to respect their differing conventions.

Army medical officers:

Lt. Col. Charles G. Mason, M.C., A.U.S. [reservist]
Maj. Gen. Thomas M. Wright, M.C., U.S. Army [regular Army]

Navy medical officers:

Capt. Donald M. Smith (MC), USNR [reservist]
Comdr. David W. Little (MC), USN [regular Navy]

Military ranks of authors should be spelled out in full when appearing in a title-page or at the heading of a chapter. When military rank is referred to in the text, it may be abbreviated as follows if followed by first name or initial.

* Standard nomenclature of diseases; and, Standard nomenclature of operations edited by E. P. Jordan. Chicago, American Medical Association, 1942. xv, 1022 pp.

Adjt.	Lt. Gen.
Adjt. Gen.	Lt. Gov.
Asst. Surg.	Lt. (jg)
Brig. Gen.	Maj.
Bvt.	Maj. Gen.
Capt.	Ord. Sgt. (Ordnance Sergeant)
Col.	Orderly Sgt.
Comdr.	Passed Asst. Surg.
Com. Sgt.	Pvt.
Corp.	Pfc. (Pvt. 1st cl.)
First Lt.	Q.M. Gen.
First Sgt.	Q.M. Sgt.
Gen.	Second Lt.
Gov.	Sgt.
Hosp. Sgt.	Sgt. Maj.
Hosp. Steward	Supt.
Insp. Gen.	Surg.
Judge Adv. Gen.	Surg. Gen.
Lt.	Surg. Maj.
Lt. Col.	Third Lt. Eng.
Lt. Comdr.	

Abbreviations (see GPO Style manual, pp. 87-93). Services, departments, organizations, and special agencies should be identified in full the first time they appear in the text, but may be abbreviated thereafter to save space. When an abbreviation is to be used, it should be shown in parentheses after the first mention of the organization.

The Office of Naval Intelligence (ONI) prepared this report. You may not telephone ONI for further details.

Initial capitals used as abbreviations are written together without periods:

USA OSS YMCA NNW TNT BEW NRC OSRD

Avoid such alphabetical abbreviations when possible.

Capitalization (see GPO Style manual, pp. 15-42). Capitalize any word that refers specifically to a proper noun:

- the Ambassador (meaning a specific Ambassador)
- the Section (meaning a specific Section)
- the Army (meaning a specific Army)
- National Government (of a specific country) - but
national customs
- the Fascist Party - but
"in Cuba there is said
to be a fascist party"

Geographic words. (1) Do not use capital letters when spelling out compass directions:

A mile north of the new concrete road we found food.

(2) Capital letters may be used, however, for points of the compass in referring to well-known geographic regions:

- Southeast Germany
- Southwest Pacific
- North China

Frequently used words which are capitalized:

- Near East, Near Eastern
- Orient, Oriental
- Occident
- Eighth Route Army
- Communist Party
- Lend-Lease
- Western (as opposite of Oriental)
- Overseas Chinese
- Co-prosperity Sphere
- Free Russia (but: occupied Russia)

Punctuation. As a guide to punctuation, see GPO Style manual, p. 101, if available.

(1) Apostrophes. Omit the additional s after the apostrophe in forming possessives from words ending in s.

Mr. Jones' rheumatism is worse.

(2) Colon (GPO Style manual, p. 102); The first word following a colon is not capitalized unless it is followed by a quotation or a new

paragraph.

Dear Bathurst...was a man to my very heart's content; he hated a fool, and he hated a rogue, and he hated a whig; he was a very good hater.

(3) Comma. (a) Put a comma before "and" and "or" which connect the last two members in a sequence of three or more:

Tom, Dick, and Harry are all here.

(b) Ordinarily, a comma precedes and follows "etc.," "namely," "i.e.," and similar expressions:

It's a question for the House, i.e., the House of Representatives, to settle.

(c) A comma is used to separate thousands, millions, etc., in numbers of four or more digits, except in dates and serial numbers:

1,269,333

50,491

4,230

(4) Dashes. When material is set off from the rest of the sentence by means of dashes, use two hyphens preceded by and followed by one space:

I wanted a typewriter -- Mary's typewriter -- but the machine was out of order.

(5) Hyphen (see p. 11 under Compounding). In a hyphenated series, a double hyphen is to be used between units, a single hyphen between parts of a unit, e.g.:

"The new front is established on the line
Moscow -- Velekye-Luki -- Pskov."

(6) Parentheses and brackets. (a) Within a sentence, punctuation marks never precede parentheses:

The current market quotations of rice (polished), sugar, and wheat are higher than in March 1941.

(b) When a parenthetical reference at the end of a sentence is a complete sentence in itself, it is written as a separate sentence:

The individual rivers show great variation in length.
(See map, p. 4.)

(c) Brackets are used to mark off editorial additions within quotations:

"To see him [Kean] act is like reading Shakespeare by flashes of lightning."

(7) Quotation marks. Always place a comma and the final period inside quotation marks:

Insert the word "growth," "production," or "manufacture," according to facts.

Place other punctuation marks inside quotation marks only when they are a part of the quoted material:

"John," asked his father, "why did you do it?"
Why call it a "gentleman's agreement"?

Numerals. Spell out in the text numbers less than one hundred, and even hundreds up to one thousand, even tens of thousands, and hundreds of thousands, and so on: fifty-seven, ninety, one hundred, fifty thousand; but 256, 51,000, and 4,750. However, if the numbers are part of a statistical series appearing in the text, write them as figures. Furthermore, if there are several numbers used in the same sentence, some of which would normally be written out and some written as figures, write all as figures: "The 28,145 Italians, the 900 Greeks, the 68 Spaniards, and the 1,456 Chinese were..." This practice may even be extended to whole paragraphs or pages of text, provided that there are enough numbers to justify it. Numbers preceding "per cent" should not be written out even when used in the text: 12 per cent. Do not start a sentence with a figure; spell it out or rearrange the sentence. Dates and serial numbers are seldom written out.

Numbers should be spelled out when used approximately:

one-half (isolated fractions)
about one hundred years ago (round numbers)
Eight years ... (first word of sentence)

Dates:

- June 1939 (not June, 1939)
- 29 June 1939
- 257 B.C., but A.D. 225

To show a continuous period of years:

- 1906-38 1700-11
- 1931-32 1698-1701
- 1801-02

To show two or more separate years not representing a continuous period, a comma is used instead of a dash:

1875, 1879

Clock time:

- 10:30 p.m.
- 10 o'clock

In time-tables and tide-tables prepared for the Army and Navy use the Continental system of time-notation:

- 17:00
- 22:05

Degrees:

- 77° 14' 06" N
- 49° 26' 14" E

In tables the signs may be omitted.

Currency: see pp. 154-5, GPO Style manual.

Spelling (GPO Style manual, pp. 43-49). If a word may be spelled in two ways, use the first choice of Webster.

In quotations retain the original spelling:

"It was the Bishop's humour when travelling to insist that his room be on a storey in the centre of his hotel."

Diacritical marks are part of the spelling of a word and should be added. They may be inserted with ink if the marks are not on the typewriter.

- vis-à-vis table d'hôte
- Ch'ü-chow piña
- attaché garçon

Compounding. If in doubt whether to use a hyphen to join words, consult the "Guide to Compounding" on pp. 55-86 in GPO Style manual. Helpful rules will be found on pp. 51-53. A hyphen is used after a prefix:

(a) to avoid doubling vowels when the prefix consists of more than one syllable:

anti-imperial
anti-aircraft,

(b) to join a prefix to a proper name:

anti-Japanese
un-American

Preferred spelling for words used frequently

catalogue	narrow gauge (noun form)
center	non-citizens
cigarette	non-Americans
commander in chief	non-native
control, controlled, controlling	ordinance
counterattack	ordnance (military)
counteroffensive	per cent
counterrevolution	post-war
develop	pre-war
envelope	theater
gendarmerie	through
meter	totaled, totaling
material	traveler, traveling
matériel (military)	warfare
mid-latitude	wartime

III. ILLUSTRATIONS

Illustrations must be strictly relevant to the text and they must also aid in its understanding. Submission of illustrations is encouraged, authors may submit to the volume editor or the Editorial Board a selection of illustrative matter from which the Board may choose. Line drawings should be used to indicate apparatus, terrain, or field installations. The office of the Managing Editor will be able to complete rough sketches and make them suitable for publication. The following suggestions are offered for dealing with the several cate-

IV. LIST OF GENERAL ILLUSTRATIONS

gories of illustrations.

Line drawings. When feasible, these should be presented in a form suitable for reproduction. When this is not feasible, incomplete pencil or ink sketches will be completed in the editorial office. Suitable lettering should be added in light pencil in the margin of the illustration to make clear significant points.

Photographs. These should be submitted as glossy prints.

Colored illustrations. Colored illustrations may be essential for certain sections, such as pathology, gas casualties, and certain divisions of the surgical volume. Profuse colored illustration cannot be accepted; colored diagrams (or kodachromes) will be used only when these are deemed essential for adequate textual exposition.

The following considerations apply to all three types of illustration.

Mounting. All figures should be mounted on light paper and, where size permits, on an 8.5 by 11 inch page of paper similar to that used in typing the text. Heavy cardboard mounts should be avoided, since they greatly increase the expense of transmission in the mail.

Identification of figures. Every illustration should carry on the back the name of the author and the subject of his chapter (in brief). Labels will be sent to authors to be pasted on the back of each illustration.

Numbering of figures. All figures should be numbered consecutively in light pencil, i.e., the figure number should not be inked on the illustration itself.

Legends. Explanations of the illustrations (legends) should be typed on separate sheets in double space. The chapter number to which the legends belong should be indicated in the upper right-hand margin of each separate typed page.

Alternating current	A.C.	Micromicron (10^{-9} mm.)	$\mu\mu$
Ampere	A.	Microampere	$\mu A.$
Atomic weight	at.wt.	Microgram	$\mu g.$
Blood pressure	B.P.	Micromilligram	$\mu mg.$
Boiling point	b.p.	Micromicrogram (10^{-12} gram)	$\mu\mu g.$
British Thermal Unit	B.T.H.U.	Microfarad	$\mu F.$
Calculated (in table headings)	calc.	Microhenry	$\mu H.$
Calorie (large)	cal.	Micromicrofarad	$\mu\mu F.$
Calorie (small)	cal.	Microsecond	$\mu sec.$
Candle	c.	Microvolt	$\mu V.$
Candle power	C.P.	Milliampere	mA.
Centigrade	C.	Milligram	mg.
Centimeter	cm.	Millihenry	mH.
Cubic centimeter	cc.	Milliliter	ml.
Cubic millimeter	c.mm.	Millimeter	mm.
Cubic (other than in cc. and c.mm.)	cu.	Millimicron	m μ
Direct current	D.C.	Millisecond (sigma)	msec.
Electromotive force	E.M.F.	Millivolt	mV.
Fahrenheit	F.	Milliwatt	mW.
Farad	F.	Minute (time)	min.
Figure	Fig.	Molar	M
Gamma (10^{-3} mg.)	γ	Molecule or Molecular	mol.
Gram	g.	Normal (of solution)	N
Gravity, acceleration due to	G.	1/10th normal	0.1 N
Henry	H.	1/100th normal	0.01 N
Horse power	H.P.	Observed (in table headings)	obs.
Hour	hr.	Page, pages	p. pp.
	(but m.p.h.)	per cent	per cent
Hydrogen ion concentration (negative logarithm of)	pH	Potential difference	P.D.
Kilogram	kg.	Revolutions per minute	rev./min.
Kilogram meter	kg.m.	Second (time)	sec.
Kiloliter	kl.	Sigma (10^{-3} sec.)	σ
Kilometer	km.	Specific gravity	sp. gr.
Kilovolt	kV.	Specific heat	sp. ht.
Kilowatt	kW.	Square (e.g. sq. cm.)	sq.
Liter	l.	Temperature (in table headings)	temp.
Maximum	max.	Time	a.m., p.m.
Melting point	m.p.	Venous pressure	V.P.
Meter	m	Volume	vol.
Micron (10^{-3} mm. = 10^{-6} m.)	μ	Volt	V.
Millimicron (10^{-6} mm.)	m μ	Watt	W.

V. BIBLIOGRAPHICAL REFERENCES

Verification of references. Authors are requested to verify when possible all references by consulting the original source. An adequate citation should include authorship (last name and initials), full title in original language, the name of the journal, the date, volume number, and first and last pages.

Form. References are to be arranged alphabetically at the end of chapters according to the name of the author and numbered consecutively. Text references are indicated by number, i.e., (12). The form of citation for journals is indicated by the following example:

(1) FLOREY, M.E., and FLOREY, H.W. General and local administration of penicillin. Lancet, 1943, 1, 387-397.

Citations of books follow the same procedure except that for single volumes the total pagination should be indicated so that the extent of the book is obvious, for example:

((2) ARMSTRONG, H.G. Principles and practice of aviation medicine. 2d ed. Baltimore, Williams and Wilkins Co., 1943, xiv, 514 pp.

When a book is two or more volumes, total pagination is unnecessary, as in the following:

(3) BAILEY, H. Surgery of modern warfare. 3d ed. Edinburgh, E. & S. Livingstone, 1944, 6 vols.

Handbooks and special serials can be treated in the manner of a journal, e.g.,

(4) FOERSTER, O. Symptomatology der Erkrankungen des Rückenmarks und seiner Wurzeln. Bunke u. Foersters Handb. Neurol., 1936, 6, 1-448.

(5) BROUWER, B. Certain aspects of the anatomical basis of the phylogeny of encephalization. Res. Publ. Ass. nerv. ment. Dis., 1934, 13, 3-25.

In all citations authors' names should be in capitals, followed by the title of the paper, journal (abbreviated, see below) underlined once, year, volume

(arabic numerals) underlined once, initial and final pages (see example i). In the case of books the author's names should likewise be in capitals, followed by the title underlined once, place of publication, publisher, date and total number of pages or volumes (see examples ii and iii). Reference to a specific page should be included when the citation is mentioned in the text (thus, Parker, 1918, p. 216).

The journal abbreviations should be in accordance with the system used in A world list of scientific periodicals published in the years 1900-1933. A list of the abbreviated titles of journals frequently cited is given below.

VI. LIST OF PERIODICALS AND THEIR ABBREVIATIONS

Since the Medical History of the War will involve citation of the periodical literature of many sciences other than medicine, i.e., physics, mathematics, chemistry, geography, astronomy, and even geology, it becomes essential to use a system of abbreviations which embraces all periodical literature in the sphere of science. Such a system is available in A world list of scientific periodicals, and it is proposed that authors and editors adhere to this system in compiling their text. There follows for the convenience of authors a list of the more frequently encountered journals and their abbreviations in accordance with World list conventions. For aviation medicine authors should consult A bibliography of aviation medicine* in which some eight hundred periodicals are included with their world list abbreviations, but for more unusual citations the World list itself must be consulted."

* HOFF, E. C., and FULTON, J.F. A bibliography of aviation medicine. Springfield, Ill., Charles C Thomas, 1942, xv, 237 pp.

* A world list of scientific periodicals published in the years 1900-1933. 2d ed. London and New York, Oxford University Press, 1934, xiv, 780 pp.

VII. TABULAR MATTER

Tabular matter will vary very widely in different volumes, and since the present History will not be dealing primarily with statistics it is hoped that tables will be reduced to a minimum.

In planning tables it is to be remembered that they should be designed to fit horizontally on a five-inch page and that wherever possible large, folding tables should be replaced by line-cut figures.

J. F. Walton, M.A., Chairman
 Subcommittee on Historical Records
 National Research Council

TO THE AUTHORS OF VOLUME I OF THE PROJECTED NATIONAL RESEARCH
COUNCIL'S MEDICAL HISTORY OF THE WAR

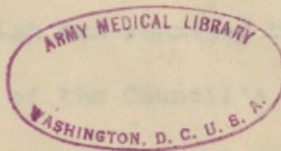
Dr. Lewis Weed as Editor of the first volume on
Organization, Research, and Liaison of the projected N. R. C.
Medical History of the War has asked me to inform authors who
had consented to contribute to the volume that the National
Research Council has felt obliged to withdraw from the project
for reasons indicated in the attached news release.

The decision has been made reluctantly and only after
most careful consideration. The Council hopes that those agencies
which had already planned chapters for the N.R.C. volume will be
able to adapt these materials for a separate history of their
agency.

John Fulton

J. F. Fulton, M.D., Chairman
Subcommittee on Historical Records
National Research Council

New Haven, Conn.,
27 February 1945.



Colonel Harold W. Jones
Chap. XII. Medical Libraries

THE NATIONAL RESEARCH COUNCIL'S PROJECTED MEDICAL HISTORY OF THE WAR

The comprehensive Medical History of the War planned under the auspices of the National Research Council as announced in War Medicine for September 1942 cannot now be undertaken. The Office of the Surgeon General of the Army has published the following statement in the Bulletin of the U.S. Army Medical Department for October 1944: "Although The Surgeon General appreciates very much the unselfish interest and efforts of the many patriotic physicians and scientists in the development of the National Research Council program, he has expressed the opinion that it should be radically revised to eliminate all accounts of Medical Department activities in this war, until such experience has been published in the official [War Department] history."

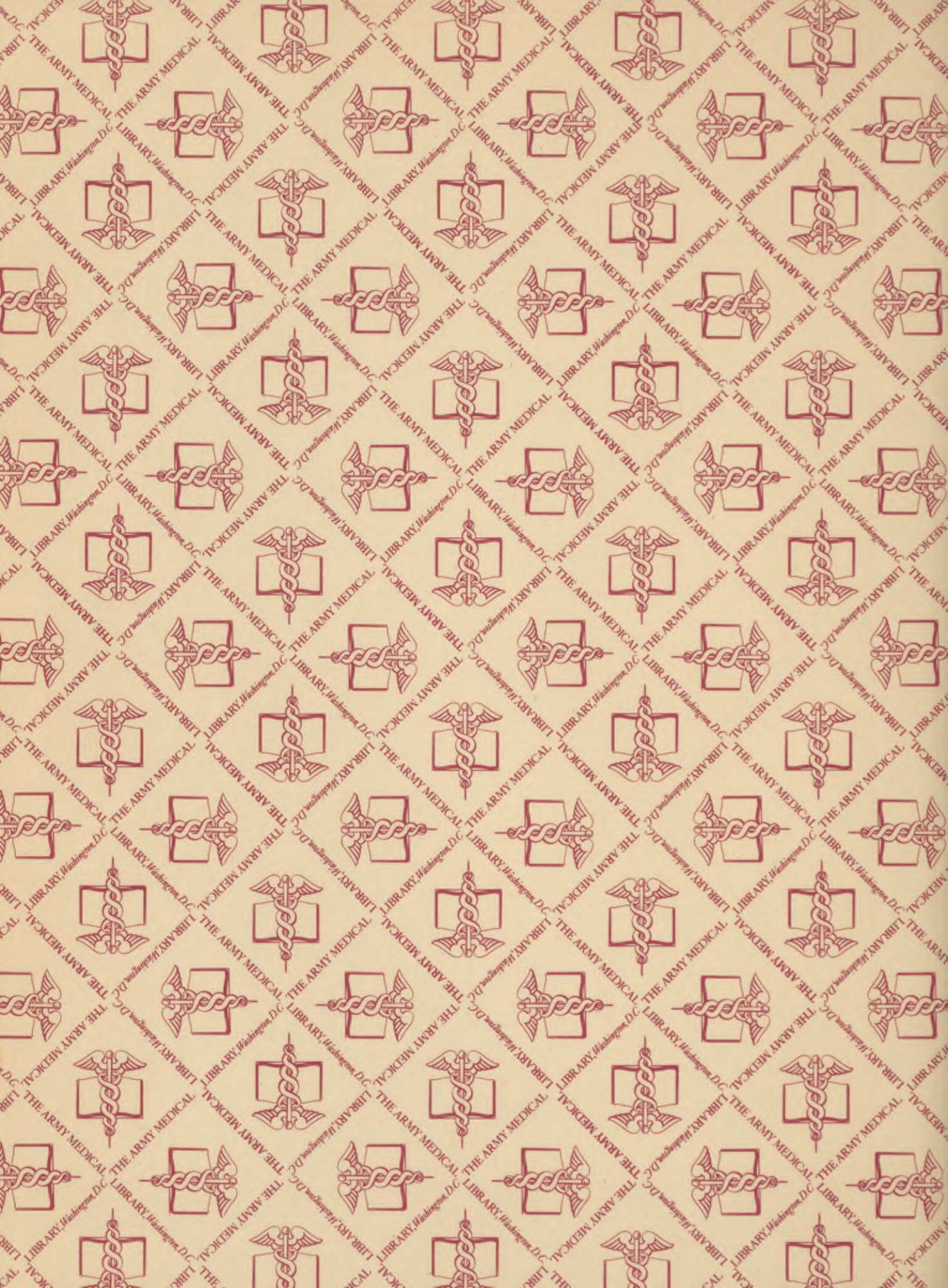
Since it would be impossible at this time to prepare an adequate, well rounded history without access to Army material, the Council now proposes to limit its Medical History to a record of the activities of the Division of Medical Sciences during the war period. Plans for the Division's History have been formulated and are being developed by the Subcommittee on Historical Records acting through the Division's Committee on Information.

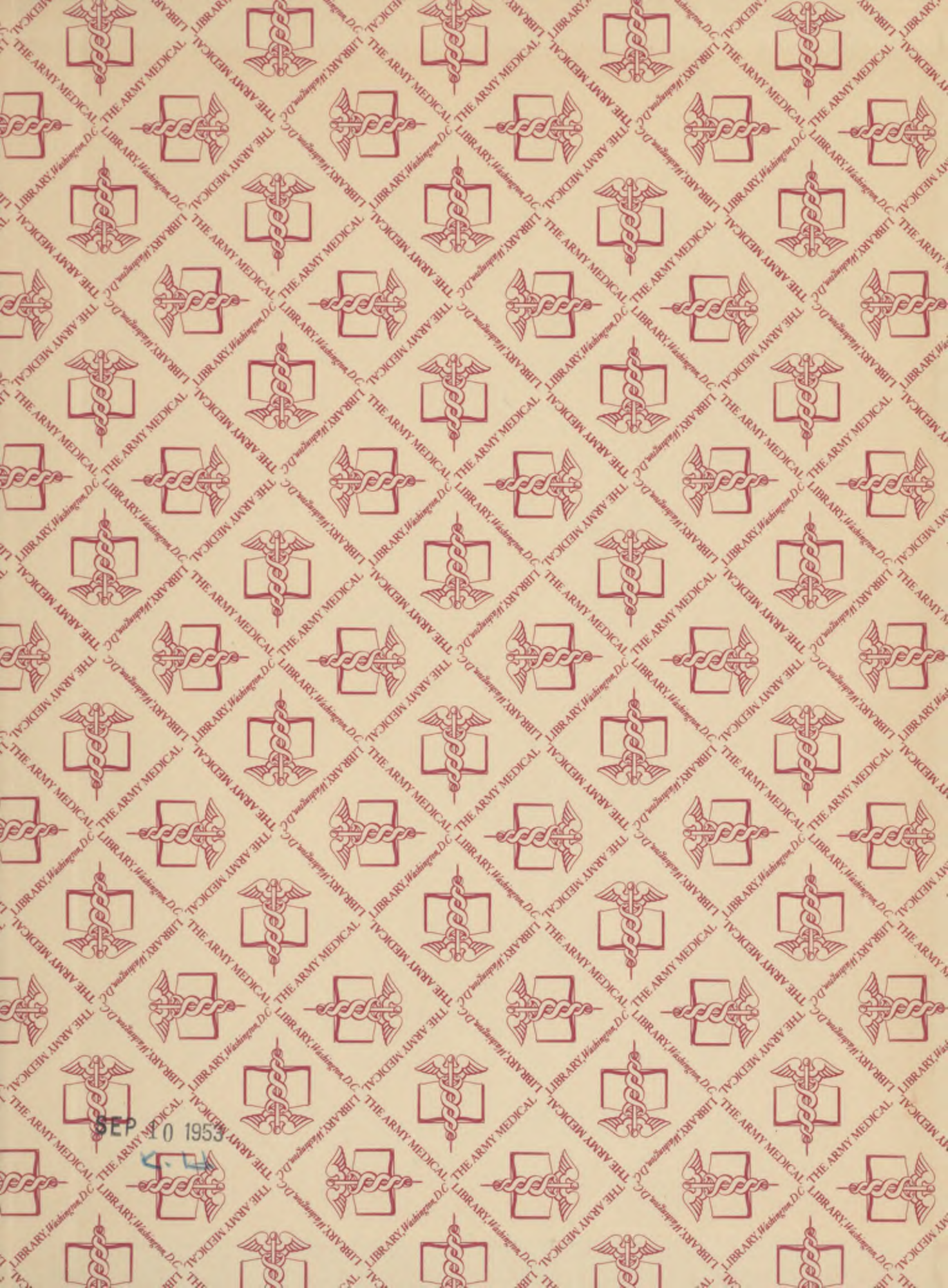
The various services and agencies which had expected to participate in the overall History have been notified of the Council's decision and the majority of them plan to draft their own histories independently.

THE NATIONAL RESEARCH COUNCIL'S PROPOSED MEDICAL HISTORY OF THE WAR

The comprehensive Medical History of the War planned under the auspices of the National Research Council is announced in War Medicine for September 1943 cannot now be undertaken. The Office of the Surgeon General of the Army has published the following statement in the Bulletin of the U.S. Army Medical Department for October 1944: "Although the Surgeon General approves very much the widespread interest and efforts of the many patriotic physicians and scientists in the development of the National Research Council program, he has expressed the opinion that it should be radically revised to eliminate all accounts of Medical Department activities in this war, until such experience has been published in the official [War Department] history."

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