

MEDDH-PO

AMEDD Program Document, FY 1970

82/3

Program Coordinator, OTSG

SATSG/R&D

28 FEB 1969

LTC Pedigree/bws/65643

The recommended FY 1970 US Army Medical Research and Development Command Program for inclusion in the FY 1970 AMEDD Program Document is submitted in compliance with OTSG Office Memorandum, 9 January 1969.

Signed  
I. C. P.

Incl  
(dupe)

IRVIN C. FLOUGH  
Colonel, MC  
Acting Special Assistant  
for Research and Development

RECORD COPY: SATSG/R&D - ADMIN 2525

MFR: BP 5000 input for Chapter 16, AMEDD Program Document, FY 1970, is based on OCRD Project Listing, 31 Jan 69. Guidance received from OTSG Program Coordinator resulted in the attached revised AMEDD Program Document, FY 1970. Improvements consist chiefly of changes in wording and the addition of FY 1969 figures to the AMEDD R&D Project List and Funding Summary (Schedule 1).

COORDINATION: COL Dirks *[Signature]*

ACTION OFFICERS: LTC Pedigree/65643/bws/27 Feb 69  
2LT Wilder W

1303.01

CG/SATSG
Dep Cd
XO <i>[Signature]</i>
MPM
Adj
JA
Ch P&C
Dir, FR&D <i>[Signature]</i>
Dir, Research <i>[Signature]</i>
Dir Development
Ch, STINFO
Ch, Admin

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112  
Accession #: 72A3503  
Box #: 24  
File: 1303-01 MEDDH-PO #1

CHAPTER 16 - AMEDD RESEARCH AND DEVELOPMENT PROGRAM

CONTENTS

	PAGE
SECTION I - OBJECTIVES . . . . .	
SECTION II - POLICIES . . . . .	
SECTION III - FACTORS AND TRENDS . . . . .	
SECTION IV - SCHEDULES . . . . .	

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112  
Accession #: 72A3503  
Box #: 24  
File: 1303-01 MEDDH-PO #1

## SECTION I - OBJECTIVES

### General

1. To maintain and augment, through research and development, the required capabilities of the Army Medical Department to support military operations in limited or general war situations and in special warfare operations anywhere in the world.

### Specific

2. To maintain and augment the capability of the Army Medical Research and Development Program to meet the responsibilities of the Army.
3. To support the objectives and requirements contained in the Army's Combat Development Objectives Guide.
4. To provide increasing Army Medical Department research and development knowledge and assistance to other elements of the Army to meet their objectives.
5. To acquire new knowledge to meet the medical research and development requirements for the health of the United States Army.
6. To take maximum advantage of current medical and other scientific knowledge.
7. To develop and maintain an in-service scientific and technical cadre capable of applying maximum effort and flexibility to the solution of medical and medical equipment problems of importance to the military.

## SECTION II - POLICIES

### General

1. The Army medical research and development program will be sound in concept and dynamic in execution. It will be continually reviewed, analyzed, and evaluated to maintain these characteristics.

### Specific

2. The in-service laboratories are the major means of carrying out the AMEDD Research, Development, Test and Evaluation (AMEDD RDTE) program, and AMEDD intramural research capabilities will therefore be maintained as the foundation of Army medical research, and will be strengthened to meet expanding demands.

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112

Accession #: 72A3503

Box #: 24

File: 1303-01 MEDDH-PO #1

a. Continuous emphasis will be placed on increasing effectiveness and functional efficiency of the US Army Medical Research and Development Command (USAMRDC), commensurate with scientific requirements, through an orderly program of facilities construction, alteration, expansion, and/or consolidation.

b. Resources, facilities, and management programs of Army training, career management, promotion, rotation assignments, incentive awards, participation in scientific meetings, etc., will be exploited fully to develop and maintain a constantly growing force of officer and civilian scientists essential to the rapidly expanding intramural medical research program of the Army.

3. The contract and grant program in medical schools, research institutes, and appropriate profit and non-profit research organizations will be strengthened to the extent required to complement and augment in-service medical research and development capabilities.

4. Systematic visits to contractors will be made by appropriate individuals from major AMEDD laboratories, as well as by project officers, to provide close liaison between the in-house and extramural programs.

5. Sufficient flexibility in organization and operation of the Army medical research program will be maintained to permit effective adjustment in consonance with future and changing requirements of the Army.

6. Maximum use will be made of multidisciplinary medical scientific teams, human factors engineering field studies and activities, and short and long-term observations of specific medical research problems.

7. Maximum effort will be exerted in the development of new and improved equipment and supplies for medical support of military operations of any magnitude in any part of the world.

8. Priorities will be assigned to each approved research and development project according to present and projected military needs.

9. Medical scientific and technical information from foreign countries will be continually reviewed and analyzed for information helpful to the medical research effort of the Army and cooperative agencies.

10. Liaison and cooperation will be maintained with other United States Governmental, civilian medical, and scientific agencies, as well as with appropriate foreign nations in pertinent areas of

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112

Accession #: 72A3503

Box #: 24

File: 1303-01 MEDDH-PO #1

activities to assure complete coordination with related programs of cooperating agencies, and, thus, derive maximum benefit of available resources for the solution of Army medical problems.

### SECTION III - FACTORS AND TRENDS

1. The expansion and orientation of the Army Medical Research and Development Program reflects the vital role of military medicine as a factor in military operations and the growing consciousness of its potential as an instrument of national policy.

a. The changing concepts and weapons of modern war, the trend of world events, and the widely varying global responsibilities accepted by the nation profoundly influence the relationship between military medicine and Army operations. Examples of these changes are the introduction of improved nuclear and conventional weapons, new tactical concepts of increased mobility and dispersion of units, increasing reliance on mobile strategic reserves involving sudden troop movements to areas of climatic extremes, and special forces operations. Critical evaluation of the needs for medical support reveals cogent requirements for a vital mission-oriented medical research and development program to sustain in combat the Army's most precious asset, man.

b. In addition, there are new and unfamiliar hazards brought about by the development of military systems which were either curiosities or did not exist a few years ago. These hazards include the biological effects of ionizing, microwave and coherent light radiation, and the effects associated with a myriad of new toxic chemicals, plastics, plasticizers, fuels, oxidizers, insecticides, and related compounds now in military use.

c. The national aims of assistance to newly developing nations have also led to increased responsibility and opportunity for the Armed Forces. The Army Medical Department has been requested to furnish assistance because it is in a unique position to implement such programs and has been deeply involved in such a role during its entire history. People-to-people programs and the concepts of civic actions teams have traditionally been a part of military medical activities, such as, assistance in disaster operations and in the control of epidemic disease outbreaks. Army medical research has made important contributions to the prevention and treatment of diseases now plaguing the peoples of the emerging countries.

2. In terms of dollars, the Army medical research program is currently divided about equally between in-service and extramural effort. The in-service investigations are conducted principally at fourteen Medical R&D units or laboratories (Chapter I, Schedule 1).

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112

Accession #: 72A3503

Box #: 24

File: 1303-01 MEDDH-PO #1

Investigations are also conducted at fifteen Army hospitals, at other medical facilities both here and abroad, and through the supporting efforts of other government agencies. The extramural studies comprise 1100 research contracts and grants with medical schools, universities, and profit and non-profit organizations. Resources are programed on the assumption that this ratio relationship will be maintained in the future.

3. A major portion of the AMEDD RDTE effort is devoted to the solution of specific medical problems that have a significant impact on military operations in Vietnam. A number of medical problems, including malaria, have been encountered, some of which are indigenous to Vietnam. Consequently, medical research and development laboratories are working on these medical problems. Investigations on military medical problems in Southeast Asia (SEA) have been pursued over a period of several years and funded at a steadily growing level. A large portion of these resources are being used to support the SEATO Medical Research Laboratory, Bangkok, Thailand, and a substantial amount supports research in specified areas at the 406th Medical Laboratory in Japan. Additional funds and personnel are utilized by our field research teams in Kuala Lumpur, Malaysia, and Vietnam, with increased backup support being provided for the continental United States (CONUS) laboratories, notably, Walter Reed Army Institute of Research (WRAIR). Finally, a majority of the research studies conducted on a contract basis are now devoted to the control and treatment of diseases endemic to SEA, which may cause non-effectiveness in troops serving in that area of the world.

4. Malaria represents a major research area with a large program of screening and testing of candidate drugs, pharmacology and toxicology of those showing activity, clinical testing of drugs, and studies on the basic biology and bionomics of the malaria parasite and its various anopheline vectors. Other diseases receiving increased emphasis are dengue, leptospirosis, cholera, the diarrheas, skin problems, hepatitis, and respiratory disease in recruit camps. New methods of preserving whole blood, techniques in combat surgery, development of an entirely new transportable field hospital, a new portable laboratory, design of body armor, epidemiologic investigations of wounding, small unit water purification, and behavioral studies, are all expanded and have immediate applicability in the current combat theater. Increased attention has been focused on the requirements of small units operating in isolated areas.

Washington Field Office  
Office of the Army Surgeon General  
Record Group 112

Accession #: 72A3503

Box #: 24

File: 1303-01 MEDDH-PO #1

SECTION IV - SCHEDULES

CONTENTS

PAGE

SCHEDULE 1 - AMEDD RESEARCH AND DEVELOPMENT PROJECT LIST AND FUNDING SUMMARY, FY 1969 - 1975. . . . .	
---	--

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112  
Accession #: 72A3503  
Box #: 24  
File: ~~2~~ 1303-01 MEDDH-PO #1

SCHEDULE 1

AMEDD RESEARCH AND DEVELOPMENT PROJECT LIST AND FUNDING SUMMARY, FY 1969-1975  
(Thousands of Dollars)

ELEMENT CODE, PROJECT NUMBER, AND TITLE	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75
5016 6.11.01.A <u>IN-HOUSE LABORATORY INDEPENDENT RESEARCH</u>	1590	1791	1975	2045	2035	2035	2035
3A061101A91C <u>In-House Laboratory Independent Research</u>	1590	1791	1975	2045	2035	2035	2035
5011 6.11.02.A <u>DEFENSE RESEARCH SCIENCES, ARMY</u>	17291	18325	19450	20344	21238	22142	22142
3A061102B71P <u>Basic Research in Support of Military Medicine</u>	4707	4987	5337	5580	5823	6076	6076
3A061102B71Q <u>Communicable Diseases and Immunology</u>	5334	5541	5891	6155	6419	6683	6683
3A061102B71R <u>Research in Biomedical Sciences</u>	7250	7797	8222	8609	8996	9383	9383
3A061102B81C <u>University Program (Project THEMIS)</u>	----	----	----	----	----	----	----
5028 6.21.10.A <u>BIO-MEDICAL INVESTIGATIONS</u>	18075	20528	21388	22248	22948	22948	22948
3A062110A806 <u>Military Preventive Medicine</u>	1020	1072	1122	1172	1267	1267	1267
3A062110A811 <u>Military Medical Research Program SE Asia</u>	2865	3505	3490	3640	3740	3740	3740
3A062110A816 <u>Military Medical Materiel</u>	2055	1015	1096	1080	1090	1090	1090
3A062110A819 <u>Army Aviation Medicine</u>	1230	1383	1433	1483	1583	1583	1583
3A062110A821 <u>Combat Surgery</u>	2870	3620	3715	3865	3965	3965	3965

Washington National Record Center  
Office of the Army Surgeon General  
Record Group 112  
Accession #: 72A3503  
Box #: 24  
File: 1303-01 MEDDH-PO #1

