

FY 70, Chap 16

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, about two-thirds of the Army medical research program is currently conducted in-service and the remainder is extramural effort. 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 1,100 research contracts and grants with

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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 importance in military operations in tropical areas. The experience of the Army in Vietnam has furnished the most recent example of the fact that tropical areas offer increased health hazards and that continued development of preventive measures is necessary in order for troops to operate effectively in such places. Although some tropical diseases are found in all tropical areas, others are specific to certain parts of the world. Therefore, the research program must include work, both in Army laboratories and through contracts, which is carried on in selected locations in the Americas, Africa, and Asia in order to allow study of all pertinent diseases and to best utilize opportunities for investigation of general tropical health problems.

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.

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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
501A 6.11.01.A <u>IN-HOUSE LABORATORY INDEPENDENT RESEARCH</u>	1440	1720	1700	1935	1935	1935	1935
3A061101A91C <u>In-House Laboratory Independent Research</u>	1440	1720	1700	1935	1935	1935	1935
501B 6.11.02.A <u>DEFENSE RESEARCH SCIENCES, ARMY</u>	15644	14027	17070	20315	21280	22115	23233
3A061102B71P <u>Basic Research in Support of Military Medicine</u>	3559	3016	4145	5270	5833	6075	6380
3A061102B71Q <u>Communicable Diseases and Immunology</u>	4854	4347	5161	6145	6430	6685	7020
3A061102B71R <u>Research in Biomedical Sciences</u>	6248	6664	7764	8900	9017	9355	7833
3A061102B81C <u>University Program (Project THEMIS)</u>	983	-----	-----	-----	-----	-----	-----
502K 6.21.10.A <u>BIO-MEDICAL INVESTIGATIONS</u>	17681	17398	17879	22165	22665	22585	22585
3A062110A806 <u>Military Preventive Medicine</u>	1035	724	965	1175	1270	1280	1280
3A062110A811 <u>Military Medical Research Program SE Asia</u>	3265	3505	2993	3640	3740	3740	3740
3A062110A816 <u>Military Medical Materiel</u>	1706	1015	945	1100	1100	1100	1100
3A062110A819 <u>Army Aviation Medicine</u>	1085	933	1233	1485	1585	1585	1585
3A062110A821 <u>Combat Surgery</u>	4004	3570	3613	4465	4465	4465	4465

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ELEMENT CODE, PROJECT NUMBER, AND TITLE	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75
3A062110A822 <u>Military Internal Medicine</u>	2393	2909	2884	3640	3690	3690	3690
3A062110A823 <u>Military Psychiatry</u>	425	599	512	605	620	620	620
3A062110A824 <u>Ionizing Radiation Injury, Prevention, and Treatment</u>	1325	950	1133	1405	1500	1400	1400
3A062110A825 <u>Oral and Maxillofacial Sciences</u>	392	503	506	675	650	675	675
3A062110A826 <u>Clinical Investigations</u>	621	700	601	785	770	770	770
3A062110A827 <u>Military Environmental Medicine</u>	1147	1716	2103	2655	2730	2700	2700
3A062110A830 <u>Bio Sensor Systems</u>	283	274	391	535	545	560	560
563N 6.37.13.A <u>THERAPEUTIC DEVELOPMENT</u>	10190	8500	11100	12600	13100	13600	13600
3A663713D829 <u>Malaria Proprietary</u>	10190	8500	11100	12600	13100	13600	13600
564R 6.47.17.A <u>GENERAL COMBAT SUPPORT</u>	1740	900	1740	1760	920	860	860
3A664717D820 <u>Field Medical Equipment and Drugs</u>	600	700	840	920	920	860	860
3A664717D828 <u>Project MUST</u>	1140	200	900	840	-----	-----	-----
5700 6.58.01.A <u>FACILITIES AND INSTALLATION SUPPORT</u>	4700	-----	-----	-----	-----	-----	-----
3A765801M817* <u>Facilities and Installation Support</u>	4700	-----	-----	-----	-----	-----	-----

*FY 69 was the last year this project number was used.

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SCHEDULE 1 (continued)

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ELEMENT CODE, PROJECT NUMBER, AND TITLE	FY 69	FY 70	FY 71	FY 72	FY 73	FY 74	FY 75
	575A 6.58.01.A	-----	1300	2115	2215	2265	2280
<u>PROGRAMWIDE ACTIVITIES</u>							
3A765801MM03 <u>Command Headquarters</u>	-----	1200	1254	1300	1350	1350	1375
3A765801MM22 <u>Special Purpose Equipment</u>	-----	60	846	890	890	900	900
3A765801MM32 <u>Minor Construction</u>	-----	40	15	25	25	30	30
<u>TOTAL PROGRAM</u>	<u>51395</u>	<u>43845</u>	<u>51604</u>	<u>60990</u>	<u>62165</u>	<u>63375</u>	<u>64518</u>

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