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United States Army Health Care Studies



and

Clinical Investigation Activity

AD-A203 151

SYSTEM DOCUMENTATION FOR THE U.S. ARMY
AMBULATORY CARE DATA BASE (ACDB) STUDY:
MAINFRAME, PERSONAL COMPUTER AND OPTICAL
SCANNER FILE STRUCTURE

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Executive Summary
Report HR89-002A

1 November 1988

US ARMY

HEALTH SERVICES COMMAND

FORT SAM HOUSTON, TEXAS 78234

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REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release; Distribution unlimited.	
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE			
4. PERFORMING ORGANIZATION REPORT NUMBER(S) HR 89-002A		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
6a. NAME OF PERFORMING ORGANIZATION U.S. Army Health Care Studies & Clinical Investigation Acty.	6b. OFFICE SYMBOL (If applicable) HSHN-H	7a. NAME OF MONITORING ORGANIZATION DASG-RMP	
6c. ADDRESS (City, State, and ZIP Code) Bldg 2268 Ft Sam Houston, TX 78234-6060		7b. ADDRESS (City, State, and ZIP Code) 5109 Leesburg Pike Falls Church, VA 22041-3258	
8a. NAME OF FUNDING / SPONSORING ORGANIZATION HQDA(DASG-RMB)	8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8c. ADDRESS (City, State, and ZIP Code) 5109 Leesburg Pike Falls Church, VA 22041-3258		10. SOURCE OF FUNDING NUMBERS	
		PROGRAM ELEMENT NO.	PROJECT NO.
		WORK UNIT NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) (U) System Documentation for the U.S. Army Ambulatory Care Data Base (ACDB) Study: Mainframe, Personal Computer and Optical Scanner File Structure			
12. PERSONAL AUTHOR(S) GS12 David R. Bolling and MAJ(P) Jeffrey P. Moon			
13a. TYPE OF REPORT Executive Summary	13b. TIME COVERED FROM Jan 86 to Sep 87	14. DATE OF REPORT (Year, Month, Day) 1988 November 1	15. PAGE COUNT 6
16. SUPPLEMENTARY NOTATION <i>(Defense Eligibility Enrollment System)</i>			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	Ambulatory visits, DEERS, Diagnosis, Downloading data, FOCUS, Optical scanner, Personal computer, SAS, SIDPER, Uploading data, Record management, (SDW)	
19. ABSTRACT (Continue on reverse if necessary and identify by block number) The U.S. Army Ambulatory Care Data Base (ACDB) Study was conducted at six medical treatment facilities during the period January 1986 - September 1987. This report outlines the optical scanning technology, personal computer and mainframe data processing support required for the project. Extensive coverage of the file structure and data element architecture used to integrate a personal and mainframe data base management system are contained in the final report. Also a description for the FOCUS Data Base Management System programs, master files, and software profiles are included in the final report. Technical support for the project was provided by the Data Processing Center, Fort Detrick, Maryland. <i>Keywords: Medical computer applications,</i>			
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL David R. Bolling		22b. TELEPHONE (Include Area Code) (301) 663-7291	22c. OFFICE SYMBOL ASNE-HD-I

fourth generation data base management system (DBMS) called FOCUS. FOCUS was used to load data, write reports, prepare files for shipment and perform other data maintenance activities. The fourth area related to the mainframe computer at Ft. Detrick. Here data from all the sites was collected and placed into cumulative files. The DBMS on the mainframe was also FOCUS making many mainframe load and report programs similar to those in the PC versions. Operating procedures such as uploading data, processing Standard Installation Division Personnel System (SIDPERS) data, processing Defense Eligibility Enrollment System (DEERS) data, loading data into FOCUS and downloading patient data to be sent back to the sites are covered within the final report.

Although an entire document could be written about end user support, little is discussed here. Ft. Detrick provided technical support to all sites throughout the project. The hospital site temporary employees had little or no computer experience. They quickly learned to follow detailed directions, and they provided feedback when problems occurred. Their support allowed for rapid resolution of problems preventing major disruptions. As such, these temporary employees were instrumental to the success of the study.

Lastly, the project used various computer languages and equipment with specialized documentation. The manual does not attempt to duplicate any documentation already written but provides references to such. In some cases, however, additional explanations are furnished where external documentation is lacking or insufficient.

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