

Contents

Chapter	<i>Page</i>
1. INTRODUCTION AND BACKGROUND	3
History, Objectives, and Scope of the Study	3
Background for the Study	4
Organization of the Report	6
2. MEDLARS	11
Introduction	11
Development of MEDLARS	11
Current Status of MEDLARS	13
Data Bases	13
Leasing	16
On-Line Services Users and Uses	16
The Future of MEDLARS	23
Current Standing	23
3. MEDLARS: SYSTEM-RELATED ISSUES	27
Introduction	27
Subject Coverage	27
Literature Coverage	29
Methodological Merit	30
Discussion	31
4. PRIVATE SECTOR HEALTH INFORMATION SYSTEMS	35
Introduction	35
Historical Origins	35
Data Bases Relevant to Health Sciences	36
BIOSIS PREVIEWS	36
EXCERPTA MEDICA	37
IRL LIFE SCIENCES COLLECTION	38
SCISEARCH	38
Commercial Search Services	39
Bibliographic Retrieval Services, Latham, N.Y.	40
DIALOG Information Services, Inc., Palo Alto, Calif.	41
System Development Corp., Santa Monica, Calif.	42
5. PUBLIC AND PRIVATE INFORMATION SECTORS: ELEMENTS OF CURRENT DOMESTIC POLICY ISSUES	47
Introduction	47
Definitions	48
Historical Perspective	48
The Appropriate Role of Government in Information Activities:	
Major Underlying Considerations	50
Introduction	50
Allocation of Resources	51
Effects of Government Involvement in Information Activities on the Private Information Sector	52
Pricing of Information Products and Services	54
6. MEDLARS AND PRIVATE HEALTH INFORMATION SYSTEMS: DISCUSSION OF DOMESTIC POLICY ISSUES	65
Range of NLM's Computerized Products and Services	66
Data Bases	66
On-Line Services	70

Chapter	Page
Pricing Issues	72
Fees for Leasing Data Base Tapes	72
On-Line Service Charges.	74
Differential Pricing	76
Research and Development	78
Final Comments	78

Appendixes

A. The National Library of Medicine: Organization and Activities	83
B. U.S. Information Policies.	99
C. MEDLARS Evaluations: A Review of the Literature	104
D. Development of Computerized Biomedical Bibliographic Retrieval Systems	109
E. MEDLINE: Technical-Processes	111
F. Public Sector/Private Sector Task Force of the National Commission on Libraries and Information Science: Principles and Recommendations	114
G. AGRICOLA and ERIC	116
H. Future Information Technologies: Implications for Biomedical Retrieval Systems	120
I. Issues in International Access to MEDLARS	128
J. Health Program Advisory Committee and Acknowledgments	138
K. Acronyms, Abbreviations, and Glossary	140
References	145

List of Tables

Table No.	Page
1. NLM Databases, Fiscal Year 1981	13
2. NLM Data Bases and Updates, Fiscal Year 1981	14
3. MEDLARS: Usage of NLM Data Bases During September 1981	15
4. MEDLARS: Number of Domestic Institutions On-Line by Region and Type, September 1981	17
5. Summary Comparison of the Functional Capabilities of MEDLARS II and MEDLARS III	24
6. Excerpta Medica Abstract Journals	37
7. IRL Abstracts	38
8. On-Line Connect Hour Rates for Selected Health-Related Data Bases, Spring 1982,	40
9. BRS: Selected Health-Related Data Bases Available On-Line, March 1982	41
10. DIALOG: Selected Health-Related Data Bases Available On-Line, April 1982	43
11. SDC: Selected Health-Related Data Bases Available On-Line, March 1982	44
12. Selected Databases Distributed by NTIS, December 1981	73
A-1. NLM Appropriations, 1970-82, ~	87
A-2. NLM Staff, Fiscal Years 1975-81	87
A-3. Medical Library Assistance Act Authorizations and Appropriations, Fiscal Years 1975-82.	89
A-4. Medical Library Assistance Act: Distribution of Funds Among Grant Programs, Fiscal Years 1980-82.	90
A-5. Medical Library Assistance Act: Resource Grants, Fiscal Years 1971-82.	92
A-6. Medical Library Assistance Act: Training Grants, Fiscal Years 1971-82	93
A-7. Medical Library Assistance Act: Research Grants, Fiscal Years 1971-82	95
A-8. Medical Library Assistance Act: Special Scientific Project Grants, Fiscal Years 1971-82.	95
A-9. Medical Library Assistance Act: Publication Grants, Fiscal Years 1971-82.	96
c-1. MEDLINE's Coverage of Selected Topics	108
G-1. ERIC Clearinghouses and Operating Organizations, 1981	118
I-1. Foreign Centers' Access to MEDLARS, March 1982	128

List of Figures

<i>List of Figures</i>	<i>Page</i>
1. MEDLARS: Number of Domestic and Foreign Institutions On-Line, 1971-81	18
2. MEDLARS: Percent of Searches and Connect Hours by User Categories, Fiscal Year 1981	19
3. MEDLARS: Use of MEDLINE and HEALTH On-Line Data Bases by Connect Hours by User Categories, Fiscal Year 1981	19
4. MEDLARS: Number of On-Line Searches Performed, 1972-81	20
A-1. National Library of Medicine	84
A-2. Representative NLM Services, 1970-81	88
A-3. Medical Library Assistance Act Appropriations and Regional Medical Library Program Budget Current and Constant Dollars, Fiscal Years 1971-81	90
A-4. Distribution of Resource Grants, Fiscal Years 1971-78	92