

# CONTENTS

<i>Chapter</i>	<i>Page</i>
1. SUMMARY	
Findings and Conclusions . . . . .	4
Policy Alternatives.. . . .	6
Scope of the Study. . . . .	7
Organization of the Report . . . . .	7
2. BACKGROUND	
Capabilities . . . . .	11
Development and Support . . . . .	12
3. DESCRIPTIONS OF THREE SYSTEMS	
Technicon Medical Information System (THIS) . . . . .	21
Computer Stored Ambulatory Record (COSTAR) System . . . . .	26
Problem-Oriented Medical Information System (PROMIS) . . . . .	30
4. IMPLICATIONS	
Institutional Delivery of Patient Care . . . . .	39
Support of Clinical Decisionmaking and Physician Education . . . . .	41
Assessment of the Quality and Utilization of Medical Care . . . . .	44
Malpractice Litigation . . . . .	45
Roles of Medical Care Professionals . . . . .	46
Health Data Systems. . . . .	47
Planning and Research . . . . .	48
Confidentiality of Patient Records . . . . .	50
5. FACTORS INFLUENCING ADOPTION AND USE	
Acceptability to Medical Care Providers . . . . .	55
Technical Transferability . . . . .	57
cost . . . . .	58
General Factors . . . . .	62
6. POLICY ISSUES AND ALTERNATIVES	
Development and Dissemination . . . . .	68
Control and Standardization . . . . .	72
BIBLIOGRAPHY . . . . .	77

## LIST OF FIGURES

<i>Figure Number</i>	<i>Page</i>
1. Hospital Departments Where Computer Terminals are Located . . . . .	13
2. TMIS Laboratory Test Order Display . . . . .	23
3. TMIS Printout of New Orders . . . . .	24
4. TMIS Patient Care Plan . . . . .	25
5. HCHP Encounter Form for the Internal Medicine Department . . . . .	28
6. COSTAR Patient Status Report. . . . .	31
7. PROMIS Master Frame . . . . .	33
8. PROMIS Display Frames for Entering Data About a Patient Problem . . . . .	34
9. PROMIS Narrative on a Patient Problem . . . . .	35
10. PROMIS Display of Outstanding Laboratory Tests . . . . .	36