Contents

	Page	Pag
Summary	3 3	Quality of Measurement
Product and Industry Characteristics	3	Clinical Efficacy
Quality of Measurement	4	Cost Effectiveness
Diagnostic Value	4	Efficiency
Clinical Efficacy Economic Efficiency	4 4	References
Cost Effectiveness	4	
Cardiac Enzymes	5	LIST OF TABLES
Introduction	5	LIGI OI ITIDEED
The Problem	5	Sable No. Page
Scope of the Case Study	6	1. Multichannel Analyzers Produced by
•		Three Major Manufacturers 8
Description of Multichannel Chemistry	7	2. Chemical Determinations Available on
Technology	7	Sechnicon, Hycel, and Du Pont
Overview of the Industry	8	Aultichannel Analyzers 9
Discrete-Sample Analyzers	-lo	3. leagent and Consumable Prices for
Centrifugal Fast Analyzers	12	wo Technicon Analyzers
Design Issues and Tradeoffs	12	4. Direct Nonlabor Costs for Selected
Future Trends	13	Analyzers
	10	5. ensitivity and Specificity of Cardiac
Framework for Cost-Effectiveness		nzymes, Isoenzymes, and EKG in the
Evaluation	13	Diagnosis of Myocardial Infarction 31
Efficiency and Cost Effectiveness	13	6. lesults of Galen, et al., on Joint
Economic Efficiency	13	Occurrence of Elevated CPK-MB
Cost Effectiveness	16	Isoenzyme and Flipped LDH Isoenzymes . 32
Concluding Observations Based on the		
Conceptual Framework	21	LICT OF FIGURES
Economics of the Multichannel Analyzer	22	LIST OF FIGURES
Overview. ,	22	
Review of Cost Data	22	igure No. Page
Hypothetical Analyses of Efficiency.,,	25	1. Cost Envelope for Three Alternative
Fixed Costs of Production and the Rate		linical Chemistry Technologies 14 2, Iypothetical Analysis of the Cost-
of Innovation ,	26	ffective Level of Testing
Induced Costs	26	ffective Level of Testing
Financial Incentives	26	
Cost Effectiveness of Cardiac Enzymes in		Vith Multiple Uses 20 4. 'composite Analysis of the Cost-
Diagnosis of Myocardial Infarction:		ffective Level of Testing
A Structured Review,	27	5. lypothetical "Breakeven" Analysis for
Overview	27	Multichannel Analyzer
Clinical Properties of the Cardiac	~ .	6. tructure of Decision Analysis for
Enzymes	28	valuation of Enzymes in Diagnosis of
Structure for Decision Analysis	29	Ivocardial Infarction 20