

UNIVERSITI TEKNOLOGI MARA

**STUDY ON THE SPEECH FEATURES OF PARKINSON'S
DISEASE PATIENTS**

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ABSTRACT

Parkinson's disease (PD) could be a neurodegenerative disorder that results in a progressive deterioration of motor function caused by lack of dopamine-producing brain cells. Neurodegenerative disorder is a term for a range of condition which affect the neuron (nerve cells) in human brain. As there are different approach in the method of analysis used to study the difference of prosodic characteristics between the groups of PDs and health control in the task of reading and monologue, hence this study intent to scrutinize whether the same conclusion can be driven by using different method of analysis. The objective of this study is to study whether there is a significant different early untreated Parkinson's disease patients, patients with rapid eye movement behavior disorder and health control and to study the association between patients with Parkinson's disease and patients with rapid eye movement behavior disorder with the history of Parkinson's disease in family. Furthermore, the method of this study is Multivariate Analysis of Variance (MANOVA) and Cochran-Mantel Haenszel Test. The results of the finding from the speech features in monologue tasks for PD patients and RBD patients appear to be different from that control group while the speech features in reading tasks between Parkinson' disease patients and control group also appear to be different. In the conclusion, it is also recommended to conduct study in the speech features of Parkinson's disease patients in Malaysia to know whether the speech features of Parkinson's disease patients in Malaysia are distinct to the health control which also known as the control group.

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TABLE OF CONTENTS

TOPIC	PAGE
ABSTRACT	i
ACKNOWLEDGEMENT	ii
TABLE OF CONTENTS	iii
LIST OF TABLES	iv
LIST OF FIGURES	v
LIST OF APPENDICES	vi
CHAPTER 1: INTRODUCTION	
1.1 Background of Study	1
1.2 Problem Statement	3
1.3 Research Objectives	4
1.4 Research Questions	4
1.5 Research Hypotheses	5
1.6 Scope and Limitation of the Study	6
1.7 Significance of Study	6
CHAPTER 2: LITERATURE REVIEW	
2.1 Introduction	7
2.2 Parkinson's Disease Background	7
2.3 Genetic Factor	8
2.4 Rapid Eyes Movement Sleep Behavior Disorder	9
2.5 Speech Features of Prosody Characteristics	9
CHAPTER 3: METHODOLOGY	
3.1 Introduction	12
3.2 Sources of Data	12
3.3 Theoretical Framework	13
3.4 Method of Analysis	14
3.4.1 Multivariate Analysis of Variance	14
3.4.2 Assumption Pertaining the Model	15
3.4.3 MANOVA Test Statistics	16
3.4.3.1 Wilks' Lambda	16
3.4.3.2 Lawley - Hotelling Trace	18

	3.4.3.3 Pillai's Trace	19
	3.4.3.4 Roy's Largest Root	19
	3.4.4 Special Cases	20
	3.4.4.1 Additional Limitations	21
	3.4.5 Bonferroni Method of Multiple Comparisons	21
	3.4.6 Cochran - Mantel - Haenszel Test	23
	3.4.6.1 Cochran-Mantel-Haenszel Estimates	24
CHAPTER 4:	RESULTS AND DISCUSSION	
	4.1 Introduction	25
	4.2 Descriptive Statistics	26
	4.3 Assumption for Manova	
	4.3.1 Normality Test for Manova for Monologue Tasks and Reading Tasks	30
	4.3.2 Equality of Variance-Covariance Matrix	32
	4.3.3 Testing for Homogeneity of Variance	33
	4.4 Manova Test	34
	4.5 Bonferroni Method of Multiple Comparisons	37
	4.6 Cochran-Mantel Haenszel	43
CHAPTER 5:	CONCLUSIONS AND RECOMMENDATIONS	
	5.1 Conclusions	45
	5.2 Recommendations	47
REFERENCES		48
APPENDICES		55