ABSTRACT

DETERMINANTS OF TREATMENT INTERRUPTION AMONG PULMONARY TUBERCULOSIS PATIENTS ON DIRECTLY OBSERVED TREATMENT SHORTCOURSE THERAPY IN OSUN STATE

Tuberculosis (TB) is still one of the leading causes of morbidity and mortality world-wide, and remains as a major public health burden in many developing countries. Nigeria ranked 4th among the 22 high burden countries with TB: with an estimated prevalence of 199/100000 population. The default rate of 5% for Osun state in 2013 is higher than the national target of 3%. Thus this study assessed the determinants of treatment interruption among Pulmonary TB patients on DOTS therapy in government operated DOTS centers in Osun State,

This was a cross-sectional survey conducted between March and May 2015 among 283 patients on DOTS selected from all the government operated DOTS centers using systematic random sampling technique, a pre-tested, semi-structured questionnaire to obtain data on socio-demographic characteristic, prevalence of treatment interruption, patient related factors, and health-services related factors. Two focus group discussions (FGD) for the patients, eleven key informant interviews (KII) for the healthcare workers. Review of treatment cards and registers with checklist were carried out. Data was summarized using frequencies, means and proportions. Chi square was used to compare proportions for categorical variables. Multivariate analysis using binary logistic regression was used to determine the predictors of treatment interruption and level of statistical significance was set at p value <0.05.

Mean age of respondents was 39.26 years ± 13.12SD. The proportion that interrupted treatment was 13.1% (36/274), 58.8 % (22/36) interrupted during intensive phase while 41.2% (14/36) interrupted during continuation phase. However, 3/36 interrupted in both treatment phase Determinants of treatment interruption were, low income (p<0.001), smoking while on treatment (p<0.036), trekking more than 30 minutes to health facility (p<0.017). Financial constraint, adverse drug reactions, lack of adequate health education, travel and industrial actions were also important factors determining treatment interruption.

Treatment interruption in this study was high due to low income, smoking while on treatment, trekking for more than 30minutes to the treatment centers, adverse drug reactions and travel. Lifestyle modifications, implementing programmes to treat addictive behaviours and also bringing treatment centers closer to patients' homes are recommended to reduce treatment interruption.

Keywords: Treatment interruption, DOTS, Tuberculosis, adverse drug reactions

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TABLE OF CONTENT

T	ITLE PAGE ·
	DEDICATIONii
	CERTIFICATION in
	ACKNOWLEDGEMENT
	LIST OF TABLESVi
	LIST OF FIGURES
	LIST OF ACRONYM
	CHAPTER ONE: INTRODUCTION
	1.1 BACKGROUND OF THE STUDY.
	1.2 PROBLEM STATEMENT
	1.3 JUSTIFICATION OF THE STUDY
	1.4 RESEACH QUESTIONS6
	1.5 AIM AND OBJECTIVES7
	CHAPTER TWO: LITERATURE REVIEW
	2.1 EPIDEMIOLOGY OF TUBERCULOSIS
	2.2 TUBERCULOSIS CONTROL IN NIGERIA
	2.3 TREATMENT INTERRUPTION
	2.4PATIENT RELATED FACTORS
	2.5 HEALTH SERVICE RELATED FACTORS21
	CHAPTER THREE: METHODOLOGY
	3.1 STUDY AREA
	3.2 STUDY DESIGN
	3.3 STUDY POPULATION
	3.4 SAMPLE SIZE
	3 5 SAMPLING TECHNIQUE

1.7 DATA COLLECTION METHODS	
3.8.1 TRAINING OF THE RESEARCH ASSISTANTS	32
3.9 DATA MANAGEMENT AND ANALYSIS	32
3.10 OPERATIONAL DEFINITION	32
CHAPTER FOUR RESULT	33
CHAPTER FIVE DISCUSSION, CONCLUSION & RECOMMENDATION	49
5.1 DISCUSSION	49
5.2 CONCLUSION	52
5.3 RECOMMENDATION	
REFERENCES	53
APPENDIX I	58
QUESTIONNAIRE	
APPENDIX II	62
CHECKLIST	
APPENDIX III	63
KEY INFORMANT INTERVIEW GUIDE	
APPENDIX IV	
ETHICAL APPROVAL	

LIST OF TABLES

ble 4.1; Percentage distribution of respondent according to their socio-demographic	
aracteristics	34
able 4.2: Clinical characteristics of the respondents	35
able 4.3: Prevalence of treatment interruption among TB patients in Osun State	35
able 4.4: Distribution of respondents according to patient related factors associated with	
treatment interruption	3.7
Table 4.5: Distribution of respondents according to health service related factors associated with	tlı
treatment interruption	38
Table 4.6: Reasons for treatment interruption among patients who interrupted	11
Table 4.7: Association between the socio-demographic characteristics of the patients and	
treatment interruption	42
Table 4.8: Association between patient related factors and treatment interruption 4	14
Table 4.9: Association between health services related factors and interruption4	5
Table 4-10 Predictors of treatment interruption among the TB patients	5