UNIVERSITI TEKNOLOGI MARA

EFFECT CARBOHYDRATES MOUTH RINSE ON REPEATED SPRINTS TIME AMONG UITM PAHANG FOOTBALLERS

MUHAMAD ZUL HARITH B MOHD ZAKARIA SOH

Research project report submitted in partial fulfilment of the requirement for the Degree Bachelor of Sports Science (Hons.)

Faculty of Sports Science and Recreation

January 2018

DECLARATION

BACHELOR OF SPORTS SCIENCE

FACULTY OF SPORT SCIENCE AND RECREATION

UNIVERSITI TEKNOLOGI MARA

I am Muhamad Zul Harith Bin Mohd Zakaria Soh (I/C NUMBER: 950312035755) hereby declare that: This work has not previously been accepted in substances of any degree, locally or overseas and is not being concurrently submitted for any other degrees.

This project is the result of my independent work and investigation, except where otherwise stated, I absolve Universiti Teknologi Mara (UiTM) and faculty of Sports Science and Recreation from any blames as result of my work.

All verbatim extracts have been distinguished by quotations marks and sources of my information have been specifically acknowledged.

Signature :

(MUHAMAD ZUL HARITH BIN MOHD ZAKARIA SOH)

IC NO : 950312-03-5755

UiTM ID : 2015571995

Date :3 /1 / 2018

ABSTRACT

The objective of this study is to evaluate the effect of carbohydrates mouth rinse on repeated sprint time among UiTM Pahang footballers. Fifteen footballer's players (age: 19.53 ± 1.50 years; weight: 61.33 ± 5.150 kg) were recruited in this study. Subjects undergo three experimental trial conditions which are carbohydrate mouth rinse using 6.4 % dextrose (CHO), placebo using stevia (PLA) and control using plain water (CON). All subject need to rinse before repeated sprints start. Quantity for each solution is 25ml for every rinse. Subjects finish repeated sprints ability test consists of six sprints of 40 m (going/ return = 20 m + 20 m), the 20s of passive recovery between every sprint. Repeated sprint time (RSA mean) was recorded. Oneway ANOVA was used to analyse this data and for repeated measures showed significant difference p = 0.00 (p<0.05) in RSA mean (CHO = 7.26s \pm 0.96s; PLA = 7.34s \pm 0.62s; CON = 7.41s \pm 0.87s). The finding of this study showed that carbohydrate mouth rinse gives positive effect to the repeated sprint time among UiTM Pahang footballers.

Keywords: carbohydrates mouth rinse, speed performance, footballers

TABLE OF CONTENTS

		Pages
DECLARATION		i
LETTER OF TRANSMITTAL		ii
AFFIRMATION		iii
ACKNOWLEDGEMENT		iv
TABLE OF CONTENTS		v
LIST OF FIGURES		vi
LIST OF TABLE		vii
LIST OF ABBREVIA	TIONS	x
ABSTRACT		
	* * * * .	
CHAPTER 1: INTRO	DUCTION	
1.1	Background of Study	1
1.2	Statement of The Problem	3
1.3	Research Objectives	3
1.4	Research Hypothesis	3
1.5	Significance of Study	4
1.6	Limitation	4
1.7	Operational definition	4
CHAPTER 2: LITER	ATURE REVIEW	
2.1	Carbohydrates mouth rinse	6
2.2	Football	12

CHAPTER 3: METHODOLOGY

3.1	Study Design	14
3.2	Sample size calculation	14
3.3	Subjects	15
3.4	Instrumentations	16
3.5	Test Procedures	17
	3.5.1 Repeated-sprint ability test (RSA)	17
	3.5.2 Repeated sprint trial	18
3.6	Data collection procedure	19
3.7	Analysis of measured parameters	20
3.8	Statistic analysis	20
CHAPTER 4 : RESUL	re	
CHAITER 4. RESUL	,	
4.1	Introduction	21
4.2	Demographic Data	21
4.3	Result repeated sprints ability (MEAN)	21
	4.3.1 Repeated sprint ability mean	22
	4.3.2 Mauchly's Test of Spericity	22
	4.3.3 Test of within subjects effects	22
	4.3.4 Multivariate test	23
	4.3.5 Pairwise Comparison	23
CHAPTER 5 : DISCUS	SION	
5.1	Effect of Carbohydrate Mouth Rinse	24
5.2	Conclusion	28
5.3	Recommendation	30