

شبكة المعلومات الجامعية







شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها على هذه الأفلام قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار في درجة حرارة من ١٥-٥٠ مئوية ورطوبة نسبية من ٢٠-٠٠% To be Kept away from Dust in Dry Cool place of 15-25- c and relative humidity 20-40%



بعض الوثائـــق الإصليــة تالفــة



بالرسالة صفحات لم ترد بالإصل

EFFECT OF THE DIFFERENT PROCESSING OF FENUGREEK SEEDS ON BLOOD GLUCOSE LEVEL IN RATS

Thesis Submitted of the Requirements for M.Sc. Degree in Home Economics

By

Heba Ibraheem Ibraheem Ghamry

B.Sc. Nutrition and Food Science, Faculty of Home Economics, Al-Azahr University (1998)

Supervisors

Prof. Laila Ahmed El-Bedwi Prof. Hanaa Abd El-Ghany Sidky

Professor of Nutrition and Food Sciences
Faculty of Home economic
Minufiya University.

Professor of Nutrition
Food Technology Research Institute
Agriculture Research Center.

Dr. Mohammed Saleh Mohammed

Associate Professor of Nutrition and Food Sciences
Faculty of Home economic
Minufiya University.

2004

Mah. Salel

C S

		•
		i
		4
		_
		`
		1
		4
		4
		`
		₹

APPROVAL SHEET

•	
Title of Thesis:	Effect of the different processing of fenugreek seeds
	on blood glucose level in rats.
Submitted to:	Department of Nutrition and Food Sciences.
	Faculty of Home Economics
,	Minufiya University
	Shibin El Kom
1	
By	Heba Ibraheem Ibraheem Ghamry
	B.Sc. Nutrition and Food Sciences
	Faculty of Home Economics
1	El Azhar University
	1
For:	The degree of M.S.c. in Home Economics
1	
This Dissertatio	n Work has been Assessed and Approved by:
<i>19</i> 1 .	19
1- Prof Dr	Misaleh
2- Prof. Dr	roda S. Ibrahun
3- Prof. Dr\	-anna-
i i	
4- Prof. Dr. 🞝	21 Agrandy
11 T 7	
	· · · · · · · · · · · · · · · · · · ·

Date: 5 / 2 / 2004

Abstract

Effect of the different processing of fenugreek seeds on blood glucose level in rats

The current study aimed to prepare nutritive hypoglycemic breads from local ingredients and fenugreek (either germinated or raw).

After preparing suggested breads, the panel test showed that wheat flour breads, wheat flour + 5% germinated fenugreek bread, wheat flour + 5% germinated fenugreek + 5% defatted soybean flour bread, and wheat flour + 5% raw fenugreek + 5% defatted soybean flour bread were the most accepted breads. A total of 48 adult male albino rats (90-100)g were used. rats were divided into two main diets (24 normal and 24 diabetic rats). All rats were fed the basal diet and the experimental diets for 28 day. During experiment period, Each rat was weighed every week, and food intake was calculated. Blood samples were collected by the beginning and by the end of experimental. Blood was collected which was used freshly for estimation of serum glucose and the rest was kept at (-18°C) for determination of cholesterol, triglycerides ,total lipid, ALT, AST, and other blood parameters. The liver, kidneys, heart, and the spleen were removed from each rat and weighed.

Results showed that adding fenugreek (raw or germinated) and defatted soybean flour to balady bread resulted in decrement of glucose level in each of normal and diabetic rats. Hence, the current study recommends the production of these breads as special foods for diabetic patients.



ACKNOWLEDGEMENT

First of all, ultimate thanks are due to Allah, Who without his aid this work could not be done.

I wish to express my great appreciation to Prof. Dr. Laila Ahmed El-Bedwi, Professor of Home Economics, Faculty of Home economic, Minufiya University, for her kind supervision, throughout this investigation.

My deepest thanks and appreciation to Prof. Dr. Hanaa Abd El-Ghany Sidky, Professor of Food Technology Research Institute, Agriculture Research Center for supervision, help throughout the present investigation.

I wish to express my great indebtedness to Dr. Mohammed Saleh Mohammed, Associate Professor of Nutrition, Faculty of Home economic, Minufiya University, for supervision, generously given his valuable advice, help, encouragement and constrictive criticism.

Finally, I dedicate this thesis to my father who was major reason to be postgraduate, my mother for her kindness, love and motherhood, my sisters who pleased me with their love especially my sister Asmaa for her valuable help to finish this work, Naira, Engy, Radwa and my friends.

			-	
•				
		=		

DEDICATION

TO	MY	FATHER'S	SOUL	• • • •

TO MY MOTHER

TO MY SISTERS

•		
	•	