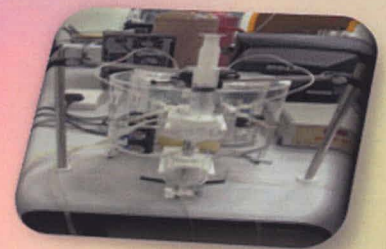
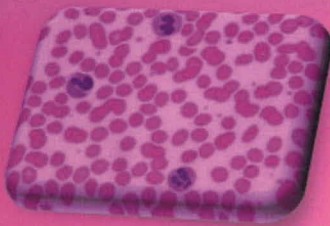


KULLIYAH OF DENTISTRY INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA



ESSENTIAL LABORATORY INVESTIGATIONS FOR DENTAL STUDENTS

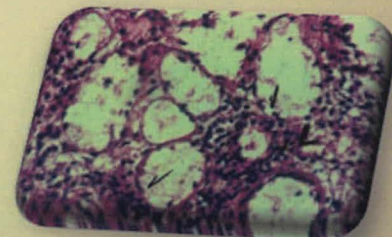
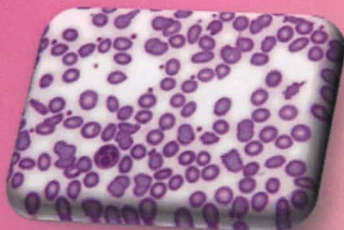


Dr Basma Ezzat Mustafa

BSc Pharmacy, H.D.D, MSc,Phd Pharmacology and Clinical Biochemistry
Assistant Professor Kulliyah of Dentistry IIUM

Dr Muayad Salm Rahma

MB.Ch.B , MMSc , Physiology
Assistant Professor Kulliyah of Dentistry IIUM



IIUM PRESS

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

ESSENTIAL LABORATORY INVESTIGATIONS FOR DENTAL STUDENTS

Editors:

Dr Basma Ezzat Mustafa

BSc Pharmacy, H.D.D, MSc,Phd Pharmacology and Clinical Biochemistry

Assistant Professor Kulliyyah of Dentistry IIUM

Dr Muayad Salm Rahma

MB.Ch.B , MMSc , Physiology

Assistant Professor Kulliyyah of Dentistry IIUM



IIUM Press

Published by:
IIUM Press
International Islamic University Malaysia

First Edition, 2011
©IIUM Press, IIUM

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without any prior written permission of the publisher.

Perpustakaan Negara Malaysia Cataloguing-in-Publication Data

ISBN: 978-967-418-040-9

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM
(Malaysian Scholarly Publishing Council)

Printed by :
IIUM PRINTING SDN. BHD.
No. 1, Jalan Industri Batu Caves 1/3
Taman Perindustrian Batu Caves
Batu Caves Centre Point
68100 Batu Caves
Selangor Darul Ehsan

TABLE OF CONTENTS

INTRODUCTION	1	
CHAPTER 1	BLOOD GLUCOSE TEST	3
1.1. What is glucose tolerance test (GTT)?	5	
1.2. What is impaired glucose tolerance (IGT)?	6	
1.3. If the patient is not diabetic should he watch his blood glucose level?	7	
1.4. What is syndrome X?	7	
1.5. Bibliography	8	
CHAPTER 2	ESSENTIAL DIAGNOSTIC PHYSIOLOGY TESTS	9
2.1 Cardio-physiology	9	
2.2 Lung Function Test	23	
2.3 Neurophysiology	28	
2.4 Bibliography	35	
CHAPTER 3	THYROID FUNCTION TEST	37
3.1 TSH Tests	37	
3.2 T4 Tests	37	
3.3 T3 Tests	38	
3.4 Thyroid Antibody Tests	39	
3.5 Measurement of Pituitary Production of TSH	40	
3.6 TRH Test	40	
3.7 Iodine Uptake Scan	41	
3.8 Thyroid Scan	41	
3.9 Bibliography	43	
CHAPTER 4	BIOPSY OF ORAL CAVITY	44
4.1 Indications for Biopsy	45	
4.2 Types of Oral Biopsy Techniques	45	
4.3 Bibliography	58	

CHAPTERS 5	TUMOR MARKERS	59
	5.1 Serum Tumor Markers.....	60
	5.2 Tissue Tumor Markers.....	61
	5.3 Urine Tumor Markers.....	61
	5.4 Saliva Tumor Markers.....	61
	5.5 Bibliography	63
CHAPTERS 6	BASIC HEMATOLOGICAL TESTS FOR DENTAL STUDENTS	
	6.1 Introduction	65
	6.2 Collection of Haematological Blood Samples	66
	6.3 Procedure	68
	6.4 Essential Hematological Tests	70
	6.5 Methods of Haemoglobin Determination	71
	6.6 Principle	72
	6.7 Bibliography	86
CHAPTERS 7	CLINICAL CASE REPORTS	89
	7.1 Bibliography	96
CHAPTERS 8	NORMAL VALUE	92 96
	8.1 Bibliography	103
<hr style="border-top: 1px dashed black;"/>		
INDEX		104