شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

بسم الله الرحمن الرحيم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

MONA MAGHRABY

شبكة المعلومات الجامعية

التوثيق الإلكتروني والميكروفيلم

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات

يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار

MONA MAGHRABY

CONE BEAM COMPUTED TOMOGRAPHY FOR EVALUATION OF MANDIBULAR LINGUAL CANAL IN AN EGYPTIAN SUBPOPULATION: A RETROSPECTIVE STUDY

Thesis
Submitted to the faculty of Dentistry, Ain Shams University,
In partial fulfillment of the requirements for the Master degree in Oral Medicine, Periodontology, Diagnosis and Radiology Department

Presented by
Rabab Amin Ali Ibrahim Elmasry
B.D.S, Mansoura University- 2006- Demonstrator at Oral and Maxillofacial Radiology Department, Faculty of Dentistry- Egyptian Russian University

Under the supervision of
Prof.Dr. Mona Mahmoud Abu El-Fotoh
Head Of Oral Medicine, Periodontology,
Diagnosis and Radiology Department
Professor of Oral and Maxillofacial Radiology
Faculty of Dentistry- Ain Shams University

Dr. Shaimaa Mohamed Abu el Sadat
Lecturer Of Oral and Maxillofacial Radiology
Faculty of Dentistry- Ain Shams University

Dr. Wael Mohammed Safwat Aboelmaaty
Assistance Professor Of Oral Radiology and Diagnostic Sciences- Faculty of Dentistry, Mansoura University

Faculty of Dentistry
Ain Shams University
2021

Judging committee

Dr. Gihan Gamal El Din El Desouky

Professor of Oral and Maxillofacial Radiology

Vice Dean of postgraduate studies

Faculty of Dentistry, Suez Canal University

Dr. Walaa Mohammed Hamed

Assistance Professor of Ora Radiology,

Faculty of Dentistry, Ain Shams University

Acknowledgment

Thank **GOD** for all his blessings, his guidance and for giving me the strength to complete this thesis.

I would like to express my deepest appreciation to ***Prof.Dr. Mona Mahmoud Abu El-Fotoh*** Head Of Oral Medicine, Periodontology, Diagnosis and Radiology Department, Faculty of Dentistry, Ain Shams University, for her kind supervision, advice and useful instructions throughout the study. It was an honor for me to work under her supervision.

My sincere thanks and gratitude go to my dear supervisor ***Dr. Shaimaa Mohamed Abu el Sadat,*** Lecturer of Oral and Maxillofacial Radiology, Faculty of Dentistry, Ain Shams University**,** for sharing her expertise and valuable scientific instructions. Without her guidance and help, the research study would not have been completed.

My deepest appreciation and thanks go to **Dr. Wael Mohammed Safwat Aboelmaaty**, Assistance Professor of Oral Radiology and Diagnostic Sciences- Faculty of Dentistry, Mansoura University, for his inspiration and extremely valuable guidance with his positive feedbacks.

Dedication

To all my beloved family, especially my mother, my husband, and daughter who always stood by my side and without their love, support and prayers this work could not have seen the light.

List of Contents

Title	Page
LIST OF FIGURES	**ii**
LIST OF TABLES	**ix**
LIST OF ABBREVIATIONS	**xii**
INTRODUCTION	**1**
REVIEW OF LITERATURE	**3**
AIM OF THE STUDY	**33**
MATERIALS AND METHODS	**34**
RESULTS	**55**
DISCUSSION	**79**
SUMMARY AND CONCLUSION	**88**
RECOMMENDATIONS AND CLINICAL IMPLICATIONS	**91**
REFERENCES	**92**
ARABIC SUMMARY	

List of figures

Figure	Title	Page
	Review of literatures	
Figure (1)	Bony parts of the mandible	**4**
Figure (2)	The anatomical boundaries of the floor of the mouth in coronal diagram	**5**
Figure (3)	Showing the bony and the soft tissue components at the anterior midline region of the mandible.	**6**
Figure (4)	The course of the submental artery running between the sublingual gland and the mandible	**8**
Figure (5)	Blood supply of sublingual region by submental and sublingual arteries	**9**
Figure (6)	Communications and anastomoses in the interforaminal region	**10**
Figure (7)	Showing (F) midline foramina (MLF), and lateral lingual foramina (LLF)	**11**

Figure (8-1)	Sagittal CBCT view of the median lingual canal showing the canal types	**12**
Figure (8-2)	(A&B) Dry mandible and 3D reconstructed CBCT displaying the lingual foramen and the genial spine. (C) representing 3D reconstructed CBCT of lower mandible	**13**
Figure (9)	Showing sublingual arteries of both sides piercing the lingual cortical plates and passing into the lingual canals	**14**
Figure (10)	Axial CBCT showing the classification of the lateral lingual mandibular canals (LLC)	**15**
Figure (11)	(A&B) Axial CBCT scan showing communication between lateral lingual canal and inferior alveolar canal.	**16**
Figure (12)	Immediate tracheostomy in patient after faulty implant placement in the anterior region.	**17**