Abstract

The objective of this study is to evaluate the oral health using O.P.G ,The study included69patients (35 males and34females= 50.7%males and49.3%females), aged between 5-68 years . The study was conducted during period (from May 25^{th} up to July 17^{th} -2014) at the Dental hospital- Khartoum.

The O.P.Gs were diagnosed and the data were taken with respect to the appearance of impact, caries, missing teeth. And were correlated with age and patient health including miswak, snuff, smoking.

The study revealed a significant relation between age and missing teeth, caries. And a significant relation between some patient habits and oral health was also been noticed at (P value = 0.005).

ملخص الدراسة

الهدف من هذه الدراسة هو تقييم الصحة العامة للفم عن طريق استخدام أحد انواع الفحوصات الإشعاعية الخاصة بالأسنان و الذي يعرف بأشعة البانوراما و تحديد مدى فعالية هذا الفحص في تشخيص امراض الفم

أجريت الدراسة على عينة من المرضى في مستشفى الخرطوم للأسنان بلغ عددهم 69 مريضاً عدد الذكور منهم 35 (50,7) و عدد الإناث (49,3) تراوحت اعمار هم في المدى وسنوات إلى 68 سنه .

جمعت البيانات المتعلقة بالأعمار و العادات من المرضى مباشرة و اما الامراض فتم الحصول عليها عبر الاطلاع على الصور و تشخيصها .

تم ربط البيانات ببعضها و تحليلها و الاستنتاج النتائج منها.

في هذا الدراسة تم توضيح العلاقة بين العمر و تساقط الأسنان و تسوسها و علاقة عادات المريض بصحة الفم و مدى تأثيرها عليها.

وقد أظهرت النتائج أن العادات التي لها ارتباط بالفم تؤثر بشكل مباشر و غير مباشر على صحة الفم و تشخيص الأمراض بصوره واضحة .

Dedication

To our parents...

Our teachers...

Our brothers and sisters...

Our friends..

To everyone whom gave us a bit of wise advice!..

Acknowledgment

Frist always we need to thank **Allah** for allowing us opportunity to begin such project, and providing us insight to complete it.

Sincere thanks and appreciation to the supervisor's **Dr. Caroline Edward** on her efforts exerted the great in helping us to complete this work and everything given to us terms of backing, advice and guidance.

And final thanks to the employees of the Department of Radiology at the Khartoum dental hospital for their directions and assistance.

List of tables

Table	Title	Page
no.		no.
4-1	The Classification of the sample according to gender	32
4-2	The age classes, Frequency and Percentages	33
4-3	Number of patients classified according to Pregnancies, Frequencies and Percentages	34
4-4	Number of patients who uses Brush for cleaning teeth	35
4-5	Number of patients who uses Miswak for cleaning teeth	36
4-6	The Site of Missing Teeth, Frequency and Percentages	41
4-7	The Characterization of Missing Teeth	42
4-8	Number of affected patients with infections	44
4-9	Number of affected patients with Caries	45
4-10	Transvers	47
5-1	Data sheet	51

List of figure

Figure no.	Title	Page no.
Figure 2.1	oral anatomy	5
figure2.2	O.P.G image oral anatomy	5
Figure 2.3	Deciduous Teeth	6
figure2.4	Secondary teeth	6
Figure 2.5	Classification teeth	7
figure2.6	teeth anatomy	8
figure2.7	Leukoplakia	13
figure2.8	Impacted tooth	15
figure 2.9	Caries	15
Figure 2.10	Caries	18
Figure 2.11	Caries	18
Figure 2.12	missing teeth	19
figure 2.13	OPG showing multiple permanent teeth missing	19
Figure 2.14	root infection	20
Figure 2.15	root infection	20
Figure 2.16	Miaswak shape	22
Figure 2.17	oral calcification	23
figure2.18	teeth caries	24
figure2.19	oral abscess	24
figure2.20	Amelobastoma	25
figure2.21	perioddontal disease	25
figure2.22	Ring fracture	26
figure2.23	Dentigerous cyst	26
figure2.24	ossifying fibroma	27

figure2.25	Fibrous dysplasia	27
Figure4.1	The Classes according to gender	32
Figure4.2	Age Classes, Frequency and	33
	Percentages	
Figure 4.3	Fitted Curve Mean age and Standard	34
	Deviation	
Figure4.4	Number of Pregnancies	35
Figure4.5	Number of Patients using Brushes	36
Figure4.6	Number of Patients using Miswak	37
Figure4.7	Number of Smoking per day, Mean	38
	and Standard deviation	
Figure4.8	History of Smoking, Mean and	39
	Standard Deviation	
Figure4.9	History of Snuff Duration, Mean and	40
	Standard Deviation	
Figure4.10	History of Snuff usage/Years, Mean	41
	and Standard Deviation	
Figure4.11	The site of the missing Teeth	42
Figure4.12	Number of affected patients with	45
	infections	
Figure4.13	Number of affected patients with	46
	Caries	

List of Contents:

Contents	Page no.			
Abstract in English	I			
Abstract in Arabic	II			
Dedication	III			
Acknowledgment	IV			
List of tables	V			
List of figure	VI			
List of Contents	VII			
Chapter one				
Introduction	1			
Orthopantomogram	1			
Problems of study	3			
Objectives of study	3			
Significant of study	3			
Chapter two				
Oral anatomy	4			
Oral physiology	10			
Oral pathology	12			
The effect of pregnancy on oral health	21			
Miswak	22			
OPG images for others oral diseases	23			
Previous Studies	28			
Chapter three				

30				
30				
30				
30				
30				
30				
30				
31				
31				
Chapter four				
32				
Chapter five				
49				
50				
51				
56				