DEPARTEMENT DE SANTE PUBLIQUE

DEPARTEMENT OF PUBLIC HEALTH

# Assessment of patient satisfaction with oral healthcare at the Biyemassi District Hospital

Thesis Submitted in Partial Fulfilment of the Requirements for the Degree of Doctor in Dental Medicine by:

# **FONYUY Michael Wolani**

Mat Nº 15M164

Director

**Co-directors** 

**Pr ESSI Marie-José** Professor *Medical Anthropology*  Dr MBEDE NGA MVONDO Rose Assistant-lecturer Dental medicine



Academic year 2021-2022

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Mat N° 15M164 Defense date : 22<sup>nd</sup> June 2022

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Academic year 2021-2022

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THANKSCIVINGPRELIMINARIES

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To our dear uncle and aunt:

# SHUDZEKA Wolani Etiene and BOOBONGHA Fasin Ester

# THANKSCIVINCAPPRECIATIONS

To God almighty for his immense and unconditional love through-out my life.

To the Dean of the Faculty of medicine and Biomedical Sciences of the university of Yaounde I, for all the efforts put in place for a smooth medical training, to her teaching and administrative staff, especially the dental department, for the conscientious efforts invested to make us excellent and proud dental practionners.

To Professor ESSI Marie-Jose who kindly directed this work and without whom this outcomee outcome of this work would not have been possible. We thank her for her availability, generosity and scientific rigour. We hope that this work meets her expectations. We pray that she may find here-in the testimony of our highest consideration, sincere gratitude and deepest respect.

To Doctor MBEDE NGA MVONDO Rose, who accepted to co-diect this work, for her advices and academic prow<u>lessness</u> without which the advancement of this work would have been difficult.

To Professor Charles BENGONDO Messanga, We express our immense gratitude for all the efforts put forth throughout our training. You have been a teacher, a guide and a parent to your students that we are. Thank you Professor.

To the Directors of our hospitals of study and to all the practicing doctors there present, for the interest given to our work and for accepting that our study be carried our in your institutions.

To our uncle and <u>auntwife</u>; may this work be the fulfillement of their unconditional love, efforts, sacrifices, and their long awaited wish.

To our grand mother (Sylveria LAILA), our father (Mr. TATA SHADU), sister (MBAZOA Marie-Celine Laure), brother (TATA Ridwan), uncle (Mr. BANDIN WOLANI Joshua), aunts (Mrs. NGALIM Helena and SUNJO Stela, ), <u>brother</u>-in-laws (Mr. FASIN Olivier, Mr.

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ANUMBONDEM Augustine, FASIN Irene and ENOW Eden), -who encouraged <u>and supported</u> us during this training. We take this opportunity to express our love and gratitude.

To our friends, Mr WIYKIYEN Jude and <u>his</u> wife WIRBA Delphine, MENGNJO Mark KERNYUY, MUA ZUO Franklin, NDONGMO Linda-Malvina, NDEMA EROUME Carole-Esther and all those not mentioned here, for their <u>presence</u>, <u>friendshipsupport</u>, advices and encouragements <u>during this period of</u> our life;

To our seniors, Drs. Loni EKALI, WAFEU Guy, AKAWA Arasmus, NDIKUM CHE Bleck, ASHU George, NTEP NTEP David Bienvenu, EBAH Beckley, AKAWA Arasmus, TETU Alvin, SAYAP Elysée-NTEP NTEP David Bienvenu, ASSAMBA Noel, NGUENGUETTI Veralia, KUATE Arnold. You have all impacted our progress in one way or the other. Thank you.

To our colleagues and thesis companions MBONO AKOUMA Arthur-Constantin, Ted Landry ZE ENAM, GUIMKEY LEYMOUNG, NGA EBODE Annie-Tatiana, TIENTCHEU Paule-Marie EMMA, BONANE Estelle Antoinette, NGONG Brian LANG, NANA Kevin, for their compagnionship, team spirit and good humour.

To Info Maladie Rare, for their support and follow-up;

To all patients who accepted to take part in this study;

To all who impacted our progress in one way or the other, we express our sincere gratitude.

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# LIST OF PERSONNEL

### 1. ADMINISTRATIVE STAFF;

**Dean** : Pr. ZE MINKANDE Jacqueline

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Coordinator of Specialization Cycle of General Surgery: Pr. NGO NONGA Bernadette Coordinator of Specialization Cycle of Gynecology-Obstetrics: Pr. MBU ENOW Robinson. Coordinator of Specialization Cycle of Internal medicine: Pr. NGANDEU Madeleine Coordinator of Specialization Cycle of Pediatrics: Pr. MAH Evelyn MUNGYEH Coordinator of Specialization Cycle of Clinical Biology: Pr. KAMGA FOUAMNO Henri Lucien.

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3. THE TEACHING STAFF

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)3	ESSOMBA Arthur (Intérim HOD)	Р	General Surgery
)4	MOUAFO TAMBO Faustin	Р	Pediatric Surgery
15	NGO NONGA Bernadette	Р	General Surgery
)6	NGOWE NGOWE Marcellin	Р	General Surgery
7	ZE MINKANDE Jacqueline	Р	Anesthesiology- Intensive care
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9	BEYIHA Gérard	AP	Anesthesiology- Intensive care
0	ESIENE Agnès	AP	Anesthesiology- Intensive care
1	EYENGA Victor Claude	AP	Surgery/Neurosurgery
2	FARIKOU Ibrahima	AP	Orthopedic surgery
3	GUIFO Marc Leroy	AP	General Surgery
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5	OWONO ETOUNDI Paul	AP	Anesthesiology- Intensive care
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6	MOHAMADOU GUEMSE Emmanuel	L	Orthopedic surgery
7	MULUEM Olivier Kennedy	L	Orthopedic/Traumatology
8	NWAHA MAKON Axel Stéphane	L	Urology
9	NDIKONTAR KWINJI Raymond	L	Anesthesiology- Intensive care
0	NGOUATNA DJEUMAKOU Serge Rawlings	L	Anesthesiology- Intensive care
1	NYANIT BOB Dorcas	L	Pediatric surgery
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4	AFANE ZE Emmanuel	Р	Internal Medicine/Pulmonology
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16	ASHUNTANTANG Gloria Enow	Р	Internal Medicine/Nephrology

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49	KINGUE Samuel	P	Internal Medicine/Cardiology
50	KUATE TEGUEU Calixte	P	Internal Medicine/Nephrology
51	MBANYA Jean Claude	P	Internal Medicine/Endocrinology
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53	NDOM Paul	Р	Internal Medicine/Oncology
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55	NOUEDOUI Christophe	Р	Internal Medicine/Endocrinology
56	SINGWE Madeleine épse NGANDEU	Р	Internal Medicine/rheumatology
57	SOBNGWI Eugène	Р	Internal Medicine/Endocrinology
58	PEFURA YONE Eric Walter	Р	Internal Medicine/Pulmonology
59	HAMADOU BA	AP	Internal Medicine/Cardiology
60	KOUOTOU Emmanuel Armand	AP	Internal Medicine/Dermatology
61	MENANGA Alain Patrick	AP	Internal Medicine/Cardiology
62	FOUDA MENYE Hermine Danielle	SL	Internal Medicine/Nephrology
63	KOWO Mathurin Pierre	SL	Internal Medicine/ Hepato-
63			Gastroenterology
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88	OWONO NGABEDE Amalia Ariane	L	Internal Medicine/Interventional Cardiology

# X

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102	FOUMANE Pascal	P	Gynecology/Obstetrics
103	MBOUDOU Émile	Р	Gynecology/Obstetrics
104	MBU ENOW Robinson	Р	Gynecology/Obstetrics
105	NKWABONG Elie	Р	Gynecology/Obstetrics
106	TEBEU Pierre Marie	Р	Gynecology/Obstetrics
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111	NGO UM Esther Juliette épse MEKA	AP	Gynecology/Obstetrics
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113	BELINGA Etienne	SL	Gynecology/Obstetrics
114	ESSIBEN Félix	SL	Gynecology/Obstetrics
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116	EBONG Cliford EBONTANE	L	Gynecology/Obstetrics
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118	MENDOUA Michèle Florence épouse NKODO	L	Gynecology/Obstetrics
119	NSAHLAI Christiane JIVIR FOMU	L	Gynecology/Obstetrics
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122	DJOMOU François (HOD)	Р	ENT
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126	NJOCK Richard	P	ENT
127	OMGBWA EBALE André	P	Ophthalmology
128	BILLONG Yannick	AP	Ophthalmology
129	DOHVOMA Andin Viola	AP	Ophthalmology
130	EBANA MVOGO Stève Robert	AP	Ophthalmology
131	ÉPÉE Émilienne	AP	Ophthalmology
132	KAGMENI Gilles	AP	Ophthalmology
133	KOKI Godefroy	AP	Ophthalmology
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135	NGABA Olive	AP	ENT
136	ANDJOCK NKOUO Yves Christian	SL	ENT
137	ASMAOU BOUBA Dalil	SL	ENT
139	BOLA SIAFA Antoine	SL	ENT
	MVILONGO TSIMI épouse BENGONO	SL	
140	Caroline	5L	Ophthalmology
	AKONO ZOUA épouse ETEME Marie	L	opiniminiorogy
141	Evodie	2	Ophthalmology
142	ATANGA Léonel Christophe	L	ENT/CFS
143	MEVA'A BIOUELE Roger Christian	L	ENT/CFS
144	MOSSUS Yannick	L	ENT/CFS
145	NANFACK NGOUNE Chantal	L	Ophthalmology
	NGO NYEKI Adèle-Rose épouse	L	
146	MOUAHA-BELL	L	ENT/CFS
147	NOMO Arlette Francine	L	Ophthalmology
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149	KOKI NDOMBO Paul	P	Pediatrics
150	ABENA OBAMA Marie Thérèse	P	Pediatrics
151	CHIABI Andreas	P	Pediatrics
152	CHELO David	P	Pediatrics
153	NGUEFACK Séraphin	P	Pediatrics
154	MBASSI AWA	AP	Pediatrics
155	MAH Evelyn	AP	Pediatrics
156	NGO UM KINJEL Suzanne épse SAP	AP	Pediatrics
157	NGUEFACK épouse DONGMO Félicitée	AP	Pediatrics
158	ONGOTSOYI Angèle H.	AP	Pediatrics
159	KALLA Ginette Claude épse MBOPI KEOU	SL	Pediatrics
160	NOUBI N. épouse KAMGAING M.	SL	Pediatrics
161	MEKONE NKWELE Isabelle	SL	Pediatrics
162	EPEE épouse NGOUE Jeannette	L	Pediatrics
163	KAGO TAGUE Daniel Armand	L	Pediatrics
164	MEGUIEZE Claude-Audrey	L	Pediatrics
165	TONY NENGOM Jocelyn	L	Pediatrics
	DEPARTMENT OF MICROBIOLOGY, P.	ARASIT	DLOGY, HAEMATOLOGY AND
	INFECTIOU		
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167	ADIOGO Dieudonné	Р	Bacteriology/Virology
168	GONSU née KAMGA Hortense	Р	Bacteriology
169	LUMA Henry	Р	Bacteriology/Virology
170	MBANYA Dora	Р	Hematology
171	OKOMO ASSOUMOU Marie Claire	Р	Bacteriology/Virology
172	TAYOU TAGNY Claude	Р	Microbiology/Hematology
172	NKOA Thérèse	AP	Microbiology/Hematology
174	TOUKAM Michel	AP	Microbiology
175	CHETCHA CHEMEGNI Bernard	SL	Microbiology/Hematology
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	NDOUMBA NKENGUE Annick épouse	SL	
178	MINTYA		Hematology
179	NGANDO Laure épouse MOUDOUTE	SL	Parasitology
180	VOUNDI VOUNDI Esther	SL	Virology
		-	

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181	BEYELA Frédérique	L	Infectious Diseases
182	BOUM II YAP	L	Microbiology
182	ESSOMBA Réné Ghislain	L	Immunology et Infectious Disease
183	MEDI SIKE Christiane Ingrid	L	Clinical Biology
184	NGOGANG Marie Paule	L	Clinical Biology
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185	KAMGNO Joseph (HOD)	Р	Public Health /Epidemiology
186	ESSI Marie Josée	Р	Public Health /Medical Anthropology
187	BEDIANG Georges Wylfred	AP	Medical Information Technology/
188	NGUEFACK TSAGUE	AP	Public Health
189	TAKOUGANG Innocent	AP	Public Health
190	TANYA née NGUTI K. A.	AP	Nutrition
191	BILLONG Serges Clotaire	SL	Public Health
192	KEMBE ASSAH Félix	SL	Epidemiology
193	KWEDI JIPPE Anne Sylvie	SL	Epidemiology
194	MOSSUS Tatiana née ETOUNOU AKONO	SL	Expert en Promotion de la Santé
195	NJOUMEMI ZAKARIAOU	SL	Public Health /Health Economics
196	ABBA-KABIR HAAMIT-M	L	Pharmacy
197	AMANI ADIDJA	L	Public Health
198	EYEBE EYEBE Serge Bertrand	L	Public Health /Epidemiology
199	MBA MAADJHOU Berjauline Camille	L	Public Health /Epidemiology/Nutrition
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200	SANDO Zacharie (HOD)	Р	Anatomy Pathology
201	ESSAME OYONO	Р	Anatomy Pathology
202	FEWOU Amadou	Р	Anatomy Pathology
203	MENDIMI NKODO Joseph	AP	Anatomy Pathology
204	BISSOU MAHOP	AP	Sports Medicine
205	KABEYENE OKONO Angèle	AP	Histology/Embryology
206	AKABA Désiré	SL	Human Anatomy
207	NGONGANG Gilbert FranK Olivier	SL	Legal Medicine
208	NSEME Eric	SL	Legal Medicine
209	MENDOUGA MENYE Coralie Reine	L	Anatomy Pathology
207	Bertine épse KOUOTOU		
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210	NDONGO EMBOLA épse TORIMIRO	Р	Molecular Biology
	Judith (HOD)		
211	PIEME Constant Anatole	Р	Biochemistry
212	AMA MOOR Vicky Joceline	AP	Clinical Biology/Biochemistry
213	EUSTACE BONGHAN BERINYUY	SL	Biochemistry
214	GUEWO FOKENG Magellan	L	Biochemistry
215	MBONO SAMBA ELOUMBA Esther Astrid	L	Biochemistry
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219	DZUDIE TAMDJA Anastase	SL	Physiology
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222	NDIKUM Valentine	SL	Pharmacology
223	ONDOUA NGUELE Marc Olivier		Pharmacology
D	EPARTMENT OF ORAL AND MAXILLO-F	ACIAL S	UKGERY AND PERIODONTOLOGY

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# THE PHYSICIAN'S OATH

224	BENGONDO MESSANGA Charles(HOD)	Р	Stomatology
225	NOKAM TAGUEMNE M.E.	SL	Dental medicine
226	BITHA BEYIDI Thècle Rose Claire	L	Maxillo-Facial Surgery
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KEY

- HOD= Head of Department

- **P**=Professor

- AP= Associate Professor

- SL= Senior Lecturer

- L= Lecturer



Declaration of Geneva adopted by the 2<sup>nd</sup> General Assemby of the World Medical Association, Geneva, 1948 et revised in Octobre 2017 : « As a member of the medical profession, I solemnly pledge to dedicate my life to the service of humanity;

The health and well-being of my patient will be my first consideration;

*I will respect the autonomy and dignity of my patient;* 

I will maintain the utmost respect for human life;

I will not permit considerations of age, disease or disability, creed, ethnic origin, gender, nationality, political affiliation, race, sexual orientation, social standing, social standing, or any other to intervene between my duty and my

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# THANKSCIVINCABSTRACT

**BACKGROUND:** Patient satisfaction plays an important role in patient adherence, both to dental treatment and to treatment recommendations proposed by oral health professionals. As such, can lead to the the success or the failure of of a dental practice is affected depending on whether the patients are satisfied or not with services offered.

**OBJECTIVES:** Assess patient satisfaction with oral healthcare offers on the basis of accessibility, environment and care quality in two District Hospitals in Yaounde.

**METHODS:** To attain this objective, a descriptive cross-sectional study was conducted among patients visiting the Biyem-Assi (BA) and Cite Verte (CV) District Hospitals in the Year 2021-2022. Their level of satisfaction was assessed using an administered questionnaire derived from the Dental Satisfaction Questionnaire (DSQ) and the Service Quality Questionnaire (SERVQUAL). Data analysis was done with the use of the statistical package for social sciences (<u>SPSSspss</u>) version 25. The mean was used for quantitative data and the Likert scale was used to assess qualitative variables. Results with p-value less than 5% were considered significant following a multivariate analysis using the Chi-squared test.

RESULTS: Following data collection, 200 participants were included in the study with a sex ratio of 2.4 and a mean age of  $27 \pm 9$  years. The age range from 29 years to 39 years was the most represented (40%), as well the grassfield cultural area (41.5%). The literacy rate in this study was high, given that 73.5% of participants had attented the university. A majority of participants spent about 46 minutes of transport time and rated treatment cost as high (41%). Most participants (66% at BA and 69% at CV) were satisfied with access to oral healthcare. Eighty five percent of participants rated waiting rooms as comfortable, 88% reported a tidy hospital environment. Most participants (74%) of participants where satisfied with the health environment in BA, and 42% were satisfied in CV. The main reason reported for dissatisfaction with the environment was lack of intimacy (60%). Waiting times between 60 minutes and 300 minutes were reported by 44% of participants. Services were considered to be in line with participants' needs at 96%. 85.5% of participants thought of that the staff is dependable, 75% strongly agreed that treatments received were effective, 45% reported an average service provision time, 81.5% reported that treatment information was always given and 70.5% that the staff is always willing to help in time of need. Most participants were satisfied with the quality of care received (98% at B.A and 92% at CV). Average satisfaction ratings of  $3.34 (sd \pm 0.77)$ , 3.46 (sd  $\pm$  0.63) and 3.89 (sd  $\pm$  0.515) out of 5 were obtained in the dimensions of accessibility,

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environment and care quality respectively. A global satisfaction rating of 3.55 was recorded. Participant satisfaction was significantly linked to education (p= 0.000).

**CONCLUSION:** Patient satisfaction with oral healthcare offers at BA and CV is high in general. Complaints on the non respect of patient intimacy, long <u>-andw-aiting times and high costs were the most recordedlong waiting hours</u>. Strategies should be put in place to reduce waiting time and the environment improved to address the problem of compromised patient intimacy.

KEYWORDS: Patient satisfaction, Oral healthcare, Yaounde-Cameroon.

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# THANKSCIVINCRESUME

**CONTEXTE :** la satisfaction des patients joue un rôle majeur dans <u>leur</u> l'adhésion-<u>du patient</u>, tant aux soins dentaires qu'aux recommandations de traitement proposées par les professionnels de santé. Cela peut mener au succès ou à l'échec d'un cabinet dentaire selon que les patients sont satisfaits ou pas des services offerts.

**OBJECTIFS :** Évaluer la satisfaction des patients vis-à-vis des offres de soins bucco-dentaires sur la base de l'accessibilité, l'environnement et la qualité des soins dans deux Hôpitaux de District à Yaoundé.

**METHODOLOGIE :** Pour atteindre cet objectif, une étude transversale descriptive a été menée auprès des patients fréquentant les Hôpitaux de District Biyem-Assi (BA) et de la Cité Verte (CV) au cours de l'année 2021-2022. Le niveau de satisfaction a été évalué à l'aide d'un questionnaire administré. Les données recueillies ont été analysées à l'aide du Statistical Package for Social Sciences (SPSSspss) dans sa version 25.0. La moyenne a été utilisée pour les variables quantitatives et l'échelle de Likert a été utilisée pour évaluer les variables qualitatives. Les résultats avec une valeur-p inférieure à 5 % ont été considérés comme significatifs à la suite d'une analyse multivarié.

RESULTATS : Suite au recueil des données, 200 participants ont été inclus dans l'étude avec un sex ratio de 2,4 et un âge moyen de  $27 \pm 9$  ans. La tranche d'âge de 29 ans à 39 ans était la plus représentée (40 %), ainsi que l'aire culturelle grassfields (41,5 %). Le taux d'alphabétisation dans cette étude était élevé, étant donné que 73,5 % des participants avaient fréquenté l'université. Une majorité de participants ont passé environ 46 minutes de temps de transport et ont évalué le coût du traitement comme élevé (41 %). La plupart des participants (66 % à BA et 69 % à CV) étaient satisfaits de l'accès aux soins bucco-dentaires. Quatre-vingt-cinq pour cent des participants ont qualifié les salles d'attente de confortables, 88 % ont signalé un environnement hospitalier bien rangé. La plupart des participants (74 %) étaient satisfaits de l'environnement de santé en BA et 42 % en CV. Le principal motif d'insatisfaction à l'égard de l'environnement était le manque d'intimité (60 %). Des temps d'attente entre 60 minutes et 300 minutes ont été signalés par 44 % des participants. Les services ont été jugés conformes aux besoins des participants à 96 %. 85,5 % des participants pensent que le personnel est fiable, 75 % sont tout à fait d'accord pour dire que les traitements reçus sont efficaces, 45 % déclarent un temps de prestation de service moyen, 81,5 % déclarent que les informations sur le traitement sont toujours données et 70,5 % que le personnel est toujours disposé à aide en cas

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de besoin. La plupart des participants étaient satisfaits de la qualité des soins reçus (98 % au B.A et 92 % au CV). Des notes moyennes de satisfaction de 3,34 (SD  $\pm$  0,77), 3,46 (SD  $\pm$  0,63) et 3,89 (SD  $\pm$  0,515) sur 5 ont été obtenues respectivement dans les dimensions d'accessibilité, d'environnement et de qualité des soins. Une note de satisfaction globale de 3,55 a été enregistrée. La satisfaction des participants était significativement liée à l'éducation (p = 0,000). **CONCLUSION :** La satisfaction des patients vis-à-vis des offres de soins bucco-dentaires à BA et à la CV est généralement élevée. Les plaintes concernant le non-respect de l'intimité du patient, les longs délais d'attente et les coûts élevés étaient les plus enregistrées. Des stratégies devraient être mises en place pour réduire le temps d'attente et l'environnement amélioré pour résoudre le problème de l'intimité compromise.

MOTS CLES : Satisfaction des patients, Soins buccodentaires, Yaoundé-Cameroun.

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wно	World Health Organisation	a mis en forme : Français (France)	
PSQ	:Patient Satisfaction Questionnaire	a mis en forme : Français (France)	
DVSS	:Dental Visit Satisfaction Questionnaire		
DSQ	:Dental satisfaction questionnaire		
SI	:Satisfaction Index		
BDHS	:Biyem-Assi District Hospital		
CVDH	:Cite Verte District Hospital		
DH	:District Hospital		
PS	:Percieved satisfaction		
ES	:Estimated satisfaction		
BA	:Biyem-Assi		
C <u>V</u> Ŧ	:Cite Verte		
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**Introduction** 

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# INTRODUCTION

### Introduction

Oral health refers to a state of being free from mouth and facial pain, oral and throat cancer, oral infection and sores, periodontal (gum) disease, tooth decay, tooth loss, and other diseases and disorders that limit an individual's capacity in biting, chewing, smiling, speaking, and psychosocial wellbeing (WHO, 2021). Due to the prevalence of oral pathologies, patients are for one reason or the other prompted to meet a dentist or a dental health assistant. Depending on patient expectations, this interaction might end in the patient either being satisfied or not. The WHO states that oral pathologies affect about 3.5 billion people world wide. The majority being dental caries at a prevalence ranging from 60% - 90% in (children and adults), and parodontal diseases at a prevalence ranging from 68% - 70% in Africa [1]. A study conducted by the Cameroonian association of dentists in 2017 revealed that 98% of the population is attained by periodontal diseases and 91% of children ranging from 6 years – 12 years suffer from dental caries. The same study, further concluded that the most part of the Cameroonian population suffers from gingivitis and oral cancers [2]. This epidemiologic occurances bring about a public health problem that needs to be solved by satisfying the patients.

Patient satisfaction with healthcare has in the recent years gained widespread recognition as a measure of quality. This has arisen partly due to the need for greater involvement of the patient in decisions involving healthcare. Furthermore, the link between patient satisfaction and compliance in areas such as appointment keeping, intentions to comply with recommended treatment and medication use is not to be neglected [3]. In the dental field, patient satisfaction can help in locating the strength and weaknesses aspects of a dental practice, thereby helping in elevating the quality of treatment and better future planning. It is a multifactorial concept that takes into consideration several features such as techniques, functions, infrastructure, interactions, and the environment [4]. The significance of patient satisfaction is seen in the fact that it is increasingly becoming an important indicator of the quality of dental care due partly, to the shift towards the consumer ethos in the past years. In fact, the patients areis- considered a-consumers of services, given that-and more people want to have a say in issues relating their health, the health of their families and the freedom to choose within the care they receive[5]. Studies show that several dimensions of satisfaction, such as poor communication between dentist and patient, low confidence in the dentist, and dissatisfaction with quality and high fees are associated with poor compliance with dental recommendations, low utilization and/or termination of treatment[6].

It is admitted that patient satisfaction plays an important role both in the evaluation of healthcare quality and in patient adhesion to treatment. However, little is known about patient satisfaction to oral healthcare in Cameroon. Thus, the importance of conducting such a study to provide *Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI* 

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# Introduction

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evidence for the present state of facts having as main objective to assess the level of patient satisfaction specifically, within the dimensions of (i) accessibility, (ii) care environment and (iii) quality of care administered in two District Hospitals in Yaoundé.

# Context and justification

Patient satisfaction in our dental departments is not considered one of the most important aspects of healthcare. This can be seen in the level of communication that exists between the patient and their physician, and the quality of oral healthcare offers presented to patients. Nevertheless, more research on the subject might draw attention to the stakes it holds and perhaps help in the improvement of patient experience and on the quality of healthcare, given that little is known about patient satisfaction with oral healthcare offers in cameroon. Hence the present study which aims at evaluating patient satisfaction from three dimensions: accessibility, reception and service quality. **a mis en forme :** Police :(Par défaut) Times New Roman, 12 pt, Anglais (États-Unis)

Context and justification

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# **CHAPTER I : RESEARCH FRAMEWORK**

# **I.1- JUSTIFICATION**

It is admitted that patient satisfaction plays an important role both in the evaluation of healthcare quality and in patient adhesion to treatment. However, little is known about patient satisfaction to oral healthcare in Cameroon. Thus, the importance of conducting such a study, so as to provide evidence of the present state facts in the dental departments of two district hospitals in Yaounde.

# **I.2- RESEARCH QUESTION**

What is the level of patient satisfaction to oral healthcare at Biyem-Assi and Cite Verte district Hospitals?

# **I.3- HYPOTHESE**

Although treatment quality and physical accessibility to oral healthcare is good, treatment cost and waiting time contribute to a moderate satisfaction level at the Biyem-Assi and Cite Verte district hospitals.

# **I.4- OBJECTIVES**

### **General objective**

Assess patient satisfaction with oral healthcare in two district hospitals in Yaounde.

# Specific objectives

- 1. Deduct the level of satisfaction of patients with respect to accessibility to healthcare.
- 2. Determine the level of satisfaction of patients as concerns the environment.
- 3. Measure the level of satisfaction of patients to the quality of healthcare offer.

# **I.5- RESEARCH INTEREST**

Patient satisfaction is an important concept both for the health facility and for the patients benefiting from the services provided by the health facility. This study will help in the provision of scientific information that might help the government and stake holders take decisions that would help improve patient conditions.

# Context and justification

# I.6- CONCEPTUAL FRAMEWORK

This section is a presentation the essential concepts mention in the study, the relationship that exists between them, as well as the definition of technical terms applied throughout this workms mentioned in the diagram.



Figure 1: Conceptual framework

# **Operational terms:**

Accessibility: The ease with which oral healthcare can be reached in the face of financial, geographical and emotional barriers [7].

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# Context and justification

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**Care quality:** The degree to which oral health services for individuals and populations increase the likelihood of desired outcomes [8].

# **Environment:**

It is the sum of elements, factors and conditions in the place of treatment. It may involve the geographical location as well as the immediate surroundings of the hospital [9].

**Waiting time:** waiting time has been defined as the time a patient spends in a facility from arrival at the registration desk until the time they leave the facility or receive the last service [10].

**Patient satisfaction:** The measure of the extent to which the patient is contented with the healthcare provided and their experience while using a health service [20].

# **I.7- THEORITICAL FRAME**

This study is in relation to dental medicine and public health. In dental medicine it is centered in odontology and in public health it covers social medicine.

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# **CHAPTER II : LITERATURE REVIEW**

The following chapter is divided into two different sections. The first section <u>explores the</u> <u>epidemiologic aspects of is centered on oral health</u> oral pathologies and the second section is <u>centered on n on</u> patient satisfaction <u>with oral healthcare</u>. <del>with healthcare services.</del>

# **II.1- ORAL HEALTH**

The world health organization (WHO) defines oral health as a state of being free from mouth and facial pain, oral and throat cancer, oral infection and sores, periodontal (gum) disease, tooth decay, tooth loss, and other diseases and disorders that limit an individual's capacity in biting, chewing, smiling, speaking, and psychosocial wellbeing [1]. Dental caries and periodontal diseases have been considered the most important global health burdens, with dental caries still being a major health problem in most industralised countries [7].

The WHO states that oral pathologies affect about 3.5 billion people world wide. The majority being dental caries at a prevalence ranging from 60% - 90% in (children and adults), and parodontal diseases at a prevalence ranging from 68% - 70% in Africa [1]. A study conducted by the Cameroonian association of dentists in 2017 revealed that 98% of the population is attained by periodontal diseases and 91% of children ranging from 6 years – 12 years suffer from dental caries. The same study, further concluded that the most part of the Cameroonian population suffers from gingivitis and oral cancers [2].

Tooth decay is a bacterial infection that affects the calcified tissues of the tooth and causes dissolution of the organic component and demineralization of the inorganic portion. It is cause by bacterial and plague deposition on the surface of the tooth. Frequent consumption of fermentable carbohydrates facilitates it's progression, leading to cavitation of the tooth. Oral microbes such as *streptococcus mutans* metabolize fermentable carbohydrates and produce lactic acid, which lowers oral PH to a level where the minerals of the dentine and enamel dissolve easily [8]. The figure 1 belows show the progression of a carious lesion.



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# Figure 2: Stages in caries development [9]

Periodontal diseases comprising of gingivitis and periodontitis are common oral affections that affect the tissues that surround and support the teeth. It often presents as gingivitis, which is characterized by bleeding gums, swollen gums, pain, and when left untreated, may progresses to periodontitis which involves the loss of periodontal attachment and supporting bone. According to the Global Burden of Disease Study in 2016, severe periodontal disease was the 11<sup>th</sup> most prevalent condition in the world [10].



Figure 3: Patient with plaque induce gengivitis [11]

The Global Burden of Disease Study in 2017 estimated that oral diseases affect 3.5 billion people worldwide. According to the International Agency of Research on Cancer, cancers of the lips and oral cavity are among the top 15 most common cancers worldwide, with nearly 180, 000 deaths each year [12].

In African region, Oral cancers are among the most common non-communicable diseases(NCDs), and may affect people throughout their lifetime, causing pain, disfigurement, social isolation, distress, and even death. They share risk factors with leading NCDs, including tobacco use, harmful alcohol consumption and unhealthy diets, high sugars, all which are increasing in the region. In African, caries prevalence is high with 60% - 90% of children and adults affected. HIV infections are common with 40% - 50% of infected and up to 84% of patients with AIDs showing oral lesions like candidiasis [13].

### **II.2- PATIENT SATISFACTION TO ORAL HEALTHCARE**

Patient satisfaction with healthcare has in the recent years gained widespread recognition a measure of quality. This has occurred due to the need to involve patients in the healthcare process and the important link that exists between patient satisfaction and compliance in areas such as appointment keeping, intention to comply with treatment and medication use [14]. It is a key factor for improving the quality of healthcare [15], and greater satisfaction is associated

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with adherence to doctor orders. For this reason, patient satisfaction evaluation has become part of a strategic process of healthcare organizations [16], essential for the growth and prosperity of any dental service or practice [17].

The concept of satisfaction may seem unproblematic but there is still no unifying definition of it. This is because satisfaction is considered a complex notion [18]. Far from being a feeling, it is the assessment of a feeling [19] and has been defined as the measure of the extent to which the patient is contented with the healthcare provided and their experience while using a health service. Satisfaction is an expression of the gap that exists between the expected and perceived characteristics of a service. Being an important measure of healthcare system performance and responsiveness, patient satisfaction also reflects the extent to which healthcare meets patient's expectations [20]. Satisfaction is influenced by a mixture of perceived need, patient's expectations, and experience of care. Literature on the subject, points out factors such as interpersonal care, physical environment, accessibility, and quality of care, whereas factors related to demography, health and psychological characteristics are variable and the association between them is weak [21]. In Iran in 2014, a study was conducted that found dimensions such as doctor-patient communication, care, convenience, cleanliness and cost to be closely related to patient satisfaction [22].

Another study conducted in Tehran in 2011 laid emphasis on access as having the most important association with overall satisfaction. Access is defined as the absence of undue financial limits or limits of time and distance in the acquisition of a healthcare service [23]. The disaggregation of access into broad dimensions, such as geographical, economical or social aspects, permits more operational measures through the study of specific determinants of access to care. Access to healthcare is a product of supply factors such as the location, availability, cost and appropriateness [24]. It can be evaluated from the dimensions of availability, accessibility and acceptability. The accessibility domain refers to the separation between the population and healthcare services, i.e. travel time. Availability can be considered as waiting time and acceptability is related to financial barriers and transportation problems. The use of healthcare is associated to accessibility, an is directly related to the satisfaction of patients [25]. The cost of care, predicting the overall satisfaction with access to health services might be related to the patient's insurance status and for employed people, the opportunity cost of taking time to see the provider, which is measured by a loss of hourly wages. Satisfaction with access could also be determined by organizational aspects such as obtaining a referral, the ease of obtaining appointments and the opportunity to be seen a doctor in the person's day of choice [23].

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Physicians play an important role in patient satisfaction since they lead the healthcare team, offer diagnosis, treatment and communicate with the patient regularly [26]. It is the quality rather than the quantity of care that influences patient's satisfaction. Almost all encounters between the patient and the physician involve the exchange of information via communication and the evaluation of the quality of relationship is dependent on the quality of such communication. Communicating with patients gives the physician an opportunity to comfort patients and display empathy, which is one of the most important sources of satisfaction among patients [18]. Quality medical care is defined as the extent to which a patient's physiological functions have improve as a consequence of receiving medical services, or the ability to increase the probability of desired patient outcomes and decrease the probability of undesired outcomes [27]. Care quality could be measured based on the perception and evaluation of the patient [28]. The service providers technical competence as well as the immediate results from many treatments, is very difficult for a patient to evaluate [29]. The relationship between patient satisfaction and clinical outcomes remains unclear [17]. Some studies show that patient satisfaction correlates positively with clinical outcomes, while others show no correlation or an inverse correlation [26]. A systematic analysis concluded that poor patient healthcare quality was the primary factor contributing to an increasing number of fatalities [30].

Patient safety is not only a fundamental principle in of quality heightened in the health agenda, but also a human right. It is defined as the management of risk over time. Unsafe healthcare services lead to 134 million adverse events annually in low-, and middle-income countries, accounting for nearly 2.6 million death. The WHO therefore prioritizes patient safety as an avenue to improve the overall quality of healthcare [31].

Patient's satisfaction is influenced by the environment either directly or indirectly. A study conducted in 2016 found out overarching categories for patient satisfaction. The physical environment can be divided into the physical ambient environment and the interpersonal aspects of the care environment [32]. Waiting time is an important predictor of patient satisfaction. Increased waiting time changes the patient's perspective, resulting in disappointment or even loss of control. A prolonged waiting time increases excitement, unhappiness and encourages a growing concern over the psychological symptoms of the disease [33]. The physical environment of the hospital or clinic is critical to the quality of services provided and major determinant of satisfaction. Patients have the right to be cared for in clean and safe environment [34].

Data on satisfaction can be collected using a quantitative approach. Various quantitative questionnaires such as the Dental Satisfaction Questionnaire, the Dental Visit Satisfaction

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#### <u>Literature review</u>

Scale, The Scale for Measuring Consumer Perception of Service Quality and the Australian satisfaction scale have been developed to assess patients' satisfaction level [35]. There are considerable variations in the items and dimensions used by instruments that are present. This variability was related to the availability of questionnaire instruments in healthcare which lacked comparability and even reported a frequent absence of similar underlying dimensions. The relevant dimensions for this instrument in oral health were often adapted from pre-existing instruments in overall healthcare such as the medical satisfaction questionnaire and the medical interview satisfaction questionnaire [36].

# **II.3- STATE OF THE MATTER**

In developed countries patients are highly satisfied (90% - 95%) with healthcare provided while in developing countries, studies show that the patient satisfaction to healthcare ranges from 20% to 90% [20].

### In America

In Brazil in 2019, a study was carried out on user satisfaction with oral health services in the Brazilian Unified Health System. The study population was made up of 37,262 participants, 65.51% were satisfied with oral health services. Ratings were higher among those above 20years old, beneficiaries of the Family Grant Program and lower among users with a high level of education and those who reported being employed. The same study further concludd that socio-economically disadvantaged user was more satisfied with oral health services and that satisfaction increased with age. The study stated that the quality of oral health services can result in greater satisfaction [37].

A study was conducted in 2016 in the United States on the effect of waiting times in dental offices on patient satisfaction and evaluation of patient-provider relations. Data was collected from 399 adult patients who came for regular scheduled visits to a dental school clinic. The patients ranged in age from 19 years to 93 years (mean = 52 years; SD= 16.9). This study found out that patients in the "early appointment" group were more satisfied, more likely to plan to follow their provider's recommendations and evaluated their relationship with their provider more positively than patients whose providers were not on time, while patients in the "late group" showed the most negative responses to all questions. Patients with higher education backgrounds were more negative in their responses when their providers were late [38]. Another study carried out in Iowa in the United States from 2014 to 2018 during which 10,956 patients took part used a thematic dictionary including 12 categories, developed from 48 working codes, and nabled the patient annotations to be grouped and sorted based on common themes that emerged from patient comments and included: satisfaction with emotional care felt during their

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#### *Literature review*

appointment, satisfaction with skills and treatment provided and the connections made with various personnel, the importance of establishing and maintaining patient expectations throughout their care and the high value patients place on clear communication with the patient, as well as the communication between departments, dental student and faculty, providers, and from desk. This study further concluded that these data provide insight into aspects of the dental experience that have a large effect on patient satisfaction [5].

### In Asia

In 2020 in indonesia, a study was carried out on the assessment of patient satisfaction level to dental health care services. In this study, female participation was 72.8%, 74.6% of participants were less than 40 years, 21.1% were between 40 year to 60 years old and 4.4% were over 60 years old. Waiting time (p = 0.46), distance to dentist (p = 0.026) had a significant impact on patient satisfaction. There were significant values on interpersonal aspect subscale that were present at age (p = 0.016), education (p = 0.038) and occupation (p = 0.007). The highest satisfaction was found in the technical quality subscale ( $4.11 \pm 1.75$ ). There was no significant difference between the value of patient satisfaction with age, education and occupation [39].

A study was conducted on in 2020 in Malaysia on patient satisfaction towards dentist-patient interaction among patients attending outpatient Dental Clinic Hospital University Sains Malaysia. The mean age of patients was  $32.6 \pm 13.9$  years, 71.6% of them had a tertiary level of education. 51.5% came for dental check-up and 23.6% of them had tooth decay. This study found out that 64.6% of patients were satisfied with patient-dentist relationship. Satisfaction with distress relief domain was 60.7%, 56.8% in the rapport domain and 53.7% in the interaction outcome domain. Patient satisfaction in this study was significantly associated with the dentist's characteristics such as age (OR = 0.563, 95% CI p = 0.001), gender (OR = 0.386, 95% CI 0.22-0.69, p = 0.001) and years of service (OR = 0.294, 95% CI 0.15 - 0.57, p = 0.001) [40].

In Pakistan in 2014, a study was conducted on to determine the level of patients' satisfaction with dental care provided at Private Dental Hospital Peshawar. A total of 360 patients that had received or were receiving treatment, participated in the study. The overall estimate of factors related to satisfaction showed a mean percentage of 74.8% for the 4 disciplines of satisfaction, displaying a high level of satisfaction [41].

A study carried out in 2016 in Iran on non-clinical expectations of patients in an oral healthcare setup found out that "met expectations" included four subthemes consisting of "students and staff behaviors", "infection control", "fees", and "trust" in dental school clinics. "Unmet expectations" included seven subthemes consisting "length of reception process", "waiting

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### Literature review

time", "accessibility", "explanation about treatment "procedures", "facilities and equipment", "working hours of the clinic" and "insurance coverage" [42].

In Kuwait in 2016, a study was conducted on patient satisfaction in Dental Healthcare Centers found out that respondents were generally satisfied, but internal differences were observed. They exhibited highest satisfaction with the dentists' performance, followed by the dental assistants' services, and the lowest satisfaction with the center's physical appearance and accessibility. Female, participants with less than a bachelor's degree, and younger individuals were more satisfied with the clinical and non-clinical dental services. The patient's satisfaction with the dentists explained 42.6% of the overall satisfaction, whereas their satisfaction with the clinical setting explained 31.5% of the overall satisfaction [15].

### In Europe

In Turkey in 2020, a study was carried out on the impact of patient satisfaction on patient commitment and the mediating role of patient trust. The study population was made up of 595 patients. During this study, it was demonstrated that patient satisfaction affects patient trust and commitment commitment [4].

Assessing patient satisfaction has been mandatory since 1998 in all French hospitals [27]. In Germany, measuring patient satisfaction has been required since 2005 as an element of quality management reports. Since 2002 in England, the department of health launched a national survey program in which all NHS trusts must survey patient satisfaction on an annual basis and report the results to their regulators [36].

### In Africa

A study was carried out in Tanzania in 2021 on patient satisfaction toward dental health services offered at Mnazi Mmoja dental clinic in Dar Es Salaam during which a total of 145 patients aged 18 years to 65 years constituted the study population. In study, there were more female respondents than males (53.1% versus 46.9%) and majority (62.1%) of the respondents were young adults (between 18 years and 35 years). Most respondents (93.4%) showed overall satisfaction with services offered. The level of education influenced the participant's satisfaction. Patients with secondary or higher level of education (96.3% and 51.6% respectively) ( $p \le 0.05$ ). The rest of social-demographic characteristics did not sighnificantly influence patient's satisfaction [43].

In 2014, a study during which 198 patients took part was carried out in Egypt. This study aimed at assessing patient satisfaction at dentists clinic in Zagazig University Hospitals. Most participants were satisfied with the items of time, condition and treatment provided except time in waiting area and fees. Only 22% and 9.19% of patients were satisfied respectively. More

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### Literature review

than half (56.1%) of participants were satisfied with the services, 59.6% were willing to recommend the service to others and more than sixty percent of patients expected improvement in service (60.1%) [44].

A study conducted on factors affecting patient satisfaction at the Lagos state University Teaching Hospital Dental Clinic in 2013 found that the scores obtained for satisfaction with dental services ranged from 19 to 75 with a mean of  $55.30 \pm 11.55$ . The majority of respondents (87.4%) were satisfied with the services received. The items generating the highest and lowest mean satisfaction score were cleanliness/comfort of the facility and cost of services respectively. Long waiting time was the item respondents liked least about the services. There was statistically significant relationship between the items assessing communication and respondent's gender (p = 0.001). The relationship between the overall satisfaction score and gender (p = 0.233), age category (p = 0.842) and educational status (p = 0.565) were not statistically significant [45]. Another study was conducted on patient's waiting experiences and satisfaction with oral care delivery at two levels of care of in Ibandan during which 266 respondents participated. Mean age of  $36.3 \pm 17$  years was recorded. The waiting time at the Primary Oral Health Care Center (POHCC) and tertiary health centre (UCH) were  $11.5 \pm 17.0$ and  $102.3 \pm 47.3$  minutes respectively. Many (85.3%) were satisfied with the services offered by the dentist, 78.0% were comfortable while waiting to see the doctor. Patients attending th POHCC were more satisfied with the stage of dropping appointment cards but less satisfied with the stage of being called in to see the doctor (22.9%) and with the doctor (20.6%) compared with patients attending UCH (13.3%)(P<0.005) [46].

In Uganda, studies conducted show a range of 40% - 84.2% satisfaction rates [20]. In South Africa in 2014, a study shows an overall satisfaction of 80% [49].

### In Cameroon

In 2018, a study was carried out on the reasons for late dental consultations at the Central Hospital of Yaounde. Two hundred patients made up of 55% of women and 45% men were recruited in the study. The age range was between 3 and 76 years with a mean age of 29 years. During this study it was noted that 96% of patients were satisfied with the dental treatment received [47]. The ministry of public health stated in 2011 that most Cameroonian healthcare users who can afford it seek medical care abroad. However, a study conducted in 2020 in Cameroon showed patient satisfaction rates of 85% [48].

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<u>Research methodology</u>

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# CHAPTER III : RESEARCH METHODOLOGY

Research methodology

# **III.1- STUDY TYPE**

Observational descriptive cross-sectional study.

### III.2- SITE

Biyem-Assi and Cité Verte District Hospitalsemassi District Hospital. This was to favor cosmopolitanness of the results. This was to favor cosmopolitanness of the results. Human resources at the dental department of the Biyem-Assi District Hospital comprise 4 permanent dental practitionners, 2 dental practioners on internship, 1 chief nurse and 1 laboratory technician. The technical platform on the other hand is made up of two dental chairs, two composite polymerization lamps, an amalgamator, a scaling machine and an X-Ray machine. The dental department of the Cite Verte District Hospital counts 5 dental practitioners, each working a day in the week, with a technical platform constituted by 1 dental chair, a scaling machine and an amalgamator.

### **1–** III.3- DURATION / STUDY PERIOD

The study took place for a period of 9 months from September 2021 to May 2022.

# **III.4 STUDY POPULATION**

• Target population

The population of Yaounde.

• Source population

All patients visiting the dental departments of the hospitals of studye Biyemassi District Hospital.

- Inclusion criteria
- Consenting patients aged 18 years and above.
- Exclusion Criteria
- Patients having not completed their questionnaire.
- Patients visiting the the sites of study for the first time.

### **III.5- SAMPLING**

The study sample was calculated using Schwatz's sample size calculation formular, n=Z2P(1-P)/d2

Where n is the sample size, Z is the statistic correspondence of level of confidence, p is expected prevalence and d is the precision.

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Research methodology

Suppose Z= 1.96, P= 5% then d will be 0.05/4 which gives 0.0125(0.01) Then  $n=(1.96)2 \ge 0.53(1-0.53)/(0.5)2$ 

n = 384.14617024 patients

This was rounded up to give a sample size of 400 patients

### **III.6- DATA COLLECTION TOOL**

This consisted of an administered questionnaire containing <u>3746</u> questions divided as follows: 7 questions on sociodemographic data, 9 questions on accessibility, 10 questions on the environment, <u>1127</u> questions on service quality and ended with patient recommedations. The question<u>naire</u> was pretested in Douala and it took about 20 minutes to be completed to be filled. The pretest was followed by some modifications in the domains of sociodemographic data and care quality,–<u>dure to the redundant nature of some questionsas participants found them reduntant</u>. This led to a reduction in administration time to about 17minutes.

# **III.7- PROCEDURE**

• Ethical and administrative considerations

Validation of research protocols by thesis directors, after which ethical clearance was obtained from the institutional ethics and research committee of the Faculty of Medicine and Biomedical Sciences as well as from the Regional Delegation of Public Health.

Data collection

It was carried out from Mondays to Fridays from 8AM to 4PM and sometimes to 6PM in the hospitals of study. Patients were sorted following their number of visits. Patients having above one visit were then check for inclusion criteria, after which eligible patients were informed about the study and their written consent taken. The researcher then made use of the waiting space to administer the study questionnaire, both parties being comfortably seated.

### **III.8- DATA ANALYSIS**

Data <u>obtained</u> was then incorporated into an input mask and analysed with SPSS version 26.0, then restuted in the form of frequencies<u>and</u> means<u>and standard deviations</u> following the list of variables here after<u>e</u>

- Socio-demographic data: age, sex, education, profession, cultural area
- Accessibility: Financial accessibility, Geographical accessibility, socio-cultural accessibility

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# Research methodology

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- Reception: chairs, cleanliness, level of comfort, waiting time
- Service quality: reliability, assurance, responsiveness, empathy

The likert scale, as well as the Chi-square test was used with a confidence interval level of 95% and a p-value of 0.05.

# **CHAPTER IV : RESULTS**

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This chapter is a walk through the data collection process in the form of tables, histograms and pie-charts. It begins with the path followed for patient recrutement, followed by sociodemographic data, data on accessibility, the hospital environment, care quality and global satisfaction ratings respectively.

# I. RECRUITMENT

A response rate of 85.8% was recorded <u>duringin</u> this study. 100 participants were recruited from CVDH and the rest from the BADH, giving a total of 200 participants. This was done as illustrated in figure 4 below.



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The sex ratio in this study was 2:4. Ages ranged from 18 years to 72 years, with a mean age of

<u>27 years and a standard deviation of  $\pm$  9 years.</u> The remaining details are shown in the table I <u>here afterbelow</u>.

Table I: Sociodemographic data

Variable	Modality	Biyem-Assi	Cite Verte	Total n(%)	a mis en forme : Police : (Par défaut) Times New Roman
		n (%)	n(%)		
Age (years)	18-28	36 (36)	19 (19)	55 (27.5)	
	29-39	33 (33)	47 (47)	80 (40)	
	40-50	22 (22)	28 (28)	50 (25)	
	51-61	0	6 (6)	6 (3)	
	>62	9 (9)	0 (0)	18 (9)	
Cultural area	Coast	9 (9)	8 (8)	17 (8.5)	
	Forest	28 (28)	42 (42)	70 (35)	
	Grass fields	52 (52)	31 (31)	83 (41.5)	
	Sahel	6 (6)	11(11)	17 (8.5)	
	Savannah	5 (5)	8 (5)	13 (6.5)	
Education	Illitrate	0	3 (3)	3 (1.5)	
	Primary	1(1)	0	1 (0.5)	
	Secondary	9 (9)	6 (6)	15 (7.5)	
	High school	17 (17)	17 (17)	34 (17)	
	Tertiary	73 (73)	74 (74)	147 (73.5)	
Profession	Jobless	1(1)	8 (8)	9 (4.5)	
	Private	30 (30)	33 (33)	63 (31.5)	
	Public	20 (20)	27 (27)	47 (23.5)	
	Retired	6 (6)	3 (3)	9 (4.5)	
	Student	43 (43)	29 (29)	72 (36)	

Most participants (69%) were less than 40 years in age. 4% of those working in the public sector were from the medical field, implying an easy access to oral health services as shown below.

# I. ACCESSIBILITY

The accessibility domain refers to the separation between the population and healthcare services, i.e. travel time, transport means, treatment cost etc. The data collected is as shown in the table II below.

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### Table II: Healthcare Access

Variable	Modality	Biyem- Assi n(%)	Cite Verte n(%)	Total n(%)	a mis en forme le tableau
Transport means	Taxi	52 (52)	56 (56)	108 (54)	-
-	Bike	24 (24)	25 (25)	49 (24.5)	
	Personal vehicle	13 (13)	16 (16)	29 (14.5)	
	On foot	11 (11)	3 (3)	14 (7)	
Transport time(minutes)	< 15	12 (12)	3 (3)	15 (7.5)	
•	15-30	66 (66)	55 (55)	121 (60.5)	
	31-45	8 (8)	14 (14)	22 (11)	
	47-60	6 (6)	17 (17)	23 (11.5)	
	>60	7(7)	3 (3)	10 (5)	
	I don't know	1(1)	8 (8)	9 (4.5)	
Consultation cost	Low	0	3 (3)	3 (1.5)	
	Moderate	63 (63)	61 (61)	124 (62)	
	High	26 (26)	22 (22)	48 (24)	
	Too high	4 (4)	8 (8)	12 (6)	
	I don't know	7 (7)	6 (6)	13 (6.5)	
Treatment cost	Moderate	41 (41)	50 (50)	91 (45.5)	
	High	48 (48)	34 (34)	82 (41)	
	Too high	4 (4)	8 (8)	12 (6)	
	I don't know	7 (7)	8 (8)	15 (7.5)	
Medication cost	Low	2 (2)	0	2(1)	
	Moderate	71 (71)	66 (66)	137 (68.5)	
	High	11 (11)	6 (6)	17 (8.5)	
	Too high	1(1)	0	1 (0.5)	
	I don't know	15 (15)	28 (28)	43 (21.5)	

A majority (71%) of participants spent <u>15 minutes toabout</u> 46 minutes of transport time to access the different hospitals. <u>However</u>. Most participants reported an equitable treatment of patients was reported in both hospitals (93% and 100% for <u>Biyem-Assi BA</u> and <u>Cite Verte CV</u> respectively). Discrepancies between perceived and estimated satisfaction ratings are shown in figure 5 below.

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### Figure 5: Accessibility ratings

Accessibility ratings represent the extent to which patients are satisfied with access to dental services. The percentage of participants with high perceived accessibility ratings was 55% whereas high estimated accessibility ratings of 85% and 91% were recorded in <u>Biyem-Assi-BA</u> and <u>Cite VerteCV</u> respectively. These patients were influenced by the <u>hospital-environment</u> setting as followsas shown below.

### H.III. ENVIRONMENT

Waiting time is an important predictor of patient satisfaction as far as the environment is <u>concerned</u>. Increased waiting time changes the patient's perspective, resulting in disappointment or even loss of control. The different domains assessed in the environment are shown in table III below.

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Table III: Environment setting

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Variable	Modality	Biyem-	Cite	Total
		Assi n(%)	Verte	n(%)
			n(%)	
Accessible reception	Yes	95 (95)	97 (97)	192 (96)
Waiting room	Comfortable	85 (85)	61 (61)	146 (73)
Tidiness	Not tidy	5 (5)	6 (6)	11 (5.5)
	Tidy	84 (84)	91 (91)	175 (87.5)
	Very Tidy	9 (9)	3 (3)	12 (6)
	I don't know	2 (2)	0	2 (1)
Convenience	Yes	79 (79)	69 (69)	148 (74)
Explanation if no	Too crowded	7 (7)	8 (8)	15 (7.5)
	No chairs	2 (2)	0	2(1)
	Too noisy	1(1)	0	1 (0.5)
	Lack of sufficient shelter	2 (2)	0	2(1)
	Patient intimacy not respected	8 (8)	22 (22)	30 (15)
Waiting time	< 15 minutes	4 (4)	3 (3)	7 (3.5)
	16-30minutes	30 (30)	17 (17)	47 (23.5)
	31minutes – 1hour	31 (31)	22 (22)	53 (26.5)
	>1 hour	33 (33)	55 (55)	88 (44)
	I don't know	2 (2)	3 (3)	5 (2.5)
Data entry speed	Slow	6 (6)	8 (8)	14 (7)
J	Average	41 (41)	22 (22)	63 (31.5)
	Fast	44 (44)	36 (36)	80 (40)
	I don't know	9 (9)	33 (33)	132 (66)
		~ /	. /	~ /

The reception is one of the most important <u>compartments</u>, <u>bloes</u> both for the hospital and for the patients. Majority of participants (86%) thought of the reception as being identifiable where as 44% reported waiting times ranging from 60 minutes to 300 minutes. Few (27%) participants thought of the waiting room as being uncomfortable and 26% of them were inconvenienced by the environment. These ratings were computed for global environment ratings and compared to perceived environment ratings. This is shown on figure 6.



Perceive environment satisfaction ratings were high (64%), same as estimated environment ratings in Biyem-Assi (76%) but low in Cite Verte (45%). Though the environment is important, the main reason for participants' visits was the services (care) offered in these hospitals.

### HI.IV. SERVICE QUALITY

Quality medical care is defined as the extent to which a patient's physiological functions have <u>increased the</u>-probability of desired patient outcomes and decrease the probability of undesired outcomes. <u>DThe data recorded in this field</u> is shown on table IV below.

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Table IV: Assessment of service quality
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Variable	Modality	Biyem-Assi	Cite Verte	Total
	·	n(%)	n(%)	n(%)
Service in line with needs	Yes	96 (96)	83 (83)	179 (89.5)
Dependable staff	Undecided	5 (5)	11 (11)	16 (8)
	Agree	7(7)	6 (6)	13 (6.5)
	Strongly agree	81 (81)	83 (83)	164 (82)
Effectiveness of treatment	Disagree	0	8 (8)	8 (4)
	Undecided	5 (5)	6 (6)	11 (5.5)
	Agree	14 (14)	17 (17)	31 (15.5)
	Strongly agree	81 (81)	69 (69)	150 (75)
Error free records	Disagree	5 (5)	11 (11)	16 (8)
	Undecided	2(2)	8 (8)	10 (5)
	Agree	21 (21)	12 (12)	33 (16.5)
	Strongly agree	72 (72)	69 (69)	141 (70.5)
Time of service provision	Short	24 (24)	28 (28)	52 (26)
	Average	45 (45)	53 (53)	98 (49)
	Long	23 (23)	19 (19)	42 (21)
	I don't know	8 (8)	0	8 (4)
Treatment information	Always	83 (83)	80 (80)	163 (81.5)
	Often	5 (5)	8 (8)	13 (6.5)
	Sometimes	5 (5)	3 (3)	8 (4)
	Never	6 (6)	6 (6)	12 (6)
	I don't know	1 (1)	3 (3)	4 (2)
Willingness to help	Always	77 (77)	64 (64)	141 (70.5)
	Often	5 (5)	3 (3)	8 (4)
	Sometimes	6 (6)	8 (8)	14 (7)
	Never	2 (2)	0	2(1)
	I don't know	10 (10)	25 (25)	35 (17.5)

Most participants (90.5%) either agreed or strongly agreed that treatment received relieved their symptoms. The remaining data is shown on figure 7 below.

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A majority of participants (78%) wasere of the opinion that working hours were convenient and 55 % thought that the facilities were appealing.

Estimated satisfaction ratings vary from global satisfaction ratings as shown in figure 8 below.



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Figure 8: Percieved and estimated care quality ratings

Perceived care quality ratings represent the extend of perceived patient satisfaction to dental care. Most participants (90%), perceived the quality of care received as satisfying, where as estimated care quality rating of 98% and 92% were observed in BA and CV respectively. All

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of the above data was computed for global satisfaction ratings. The values obtain are shown in sub-chapter V below.

# IV.\_\_Global satisfaction

Average satisfaction ratings of 3.34 (SD= +/- 0.77), 3.46 (SD = +/- 0.63), and 3.89 (SD = +/- 0.515) out of 5 were obtained in the dimensions of accessibility, environment and care quality respectively. This gave an estimated global satisfaction of 3.55. Patient's global satisfaction was influenced by their education as shown in table V Below.

Variable	Modality		Global	P-value	
	satisfaction n(%)				
		SS	S	NSND	
Age (years)	18-28	4 (2)	28 (14)	0	0.854
	29-39	3 (1.5)	30 (15)	2(1)	
	40-50	4 (2)	16 (8)	3 (1.5)	
	51-61	0	2(1)	0	
	>62	2(1)	6 (3)	0	
Cultural area	Coast	2(1)	6 (3)	0	0.903
	Fore st	2(1)	27 (23.5)	2(1)	
	Grassfields	6 (3)	40 (20)	1 (0.5)	
	Sahel	1 (0.5)	7 (3.5)	1 (0.5)	
	Savannah	2 (2)	3 (1.5)	0	
Education	Illitrate	0	0	1 (0.5)	0.000
	Primary	0	1 (0.5)	0	
	Secondary	1 (0.5)	7 (3.5)	0	
	High school	2 (1)	13 (6.5)	1 (0.5)	
	Tertiary	10 (5)	61 (30.5)	3 (1.5)	
Profession	Jobless	0	2(1)	0	0.378
	Public	4 (2)	16 (8)	3 (1.5)	
	Private	2(1)	27 (23.5)	2(1)	
	Retired	0	3 (1.5)	0	
	Student	8 (4)	41 (20.5)	0	
Sex	Male	6 (3)	20 (10)	3 (1.5)	0.39
	Female	6 (3)	63 (31.5)	2(1)	

Table V : Link between patient satisfaction and sociodemographic data

\*SS= strongly satisfied, S= Satisfied, NSND= Neither satisfied nor dissatisfied

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Global satisfaction ratings were distributed as shown on figure 9 below



Figure 9 : Global satisfaction ratings per site of study

Ninety five percent of patients were satisfied in both hospitals of study.

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# **CHAPTER V : DISCUSSION**

<del>I.</del> <del>II.</del>

The findings of the previous chapter are interpreted and confronted to existing studies in this section. It is organized based on the order sub-topics in chapter V.

# LIMITS OF THE STUDY

- Data collection was based on patient declarations.
- The study was carried out in two district hospitals in Yaounde. To this effect, th<u>e results</u> <u>obtainedey</u> can not be generalized for the population of Yaounde.
- Patients visiting for the first time, as well as patients under the age of 18 years were not involve in this study. Results obtained in this study can not be applied for these groups of patients. Further research needs to be done to obtain data that is applicable to them.
- The sample size was not attained in this study.

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## SOCIO-DEMOGRAPHIC DATA

The sex ratio in this study was 2.4.4. This is similar to a study carried out in Yaounde in 2018. , and can be explained by the fact that men pay less attention to their oral health as compared to women. Studies reveal that women are more conscious of their health, appearance and esthetics than men, who are always busy with their daily activities trying to fend for their families. Furthermore, studies affirm that thethe lower pain threshold in women or fear of pain will stimulate women to consult early. In Cameroon, it is known that men wait for the last moment, when the pain is unbearable and it is no longer controllable by self-medication [47]. This could equally be a reason for the observed high satisfaction ratings in this study, given that it is admitted that women are generally more satisfied with oral healthcare services than men [50].

Participants less than 40 years <u>of age</u>, made up a large part of the study population; with a mean age of  $27 \pm 9$  years. This is similar to a study carried out in Yaounde [47]. A high literacy rate was observed in this study. This can be explained by a high literacy rate of 77.1% among the adult population in Cameroon [51]. However, this is contrary to a study carried out in the West indies, where most participants had a secondary level of education [52].

The data shows that 76.5% of participants were from the Forest and Grassfields cultural areas. The population of these areas, especially Biyem-Assi, is dominated by those A lion's bite of the population in these areas, especially Biyem-Assi is from the north-west and south-west regions. This is obvious since. Furthermore, these areas are considered anglosaxon zones by the local population.

The number of students that took part in this study was important<u>Many students participated in</u> this study (36%)<sub>3</sub>, and followed by<sup>2</sup> workers in the private sector (31.5%). This demonstrates a good health oral health promotion among students and can be explained by a high literacy rate among adults in Cameroon, given, estimated at 77.07% in 2018 (UNESCO) and the fact that in 2020, a study provided evidence that 90% of the work force in Cameroon is trapped in the informal sector\_-[53]. One of the reasons for inter urban migration is for educational purposes and the sites of study are surrounded by many academic facilities.

### HI. ACCESSIBILITY

The main transport means used by participants to access the hospital was the taxi (53.3%). This can be explained by the fact that most urban areas in Cameroon have two main transport means which are taxis and motocycles (bikes) [54]. Most participants had transport times ranging from 15 minutes to -30 minutes (62.3%) and just a few participants had transport times above 30

minutes. This could be explained by the fact that there are several renowned hospitals such as the University Teaching Hospital (UTH), the Central Hospital, the military hospital and many others that offer dental services. This may limite the influx of patients from far distinations, hence reducing transport time. <u>This shows a good geographical acess</u> to oral healthcare.

Consultation costs were perceived as either average or high (88.5% and 87.7% respectively in BA and CV) by most participants. This is contrary to what is commonly thought about prices in public hospitals. However, a greater percentage of participants in CVDH reported moderate consultation costs, compared to participants <u>at the BADHin Biyem Assi</u>. The reason for this increase in consultation costs at Biyem-Assi by about 50% of the initial cost, could be as a result of the inclusion blood sugar test in the consultation procedure. <u>PatientsMost participants</u> were not welcoming of this idea as they could not tell the relationship between dental <u>treatmenteare</u> and blood sugar tests. However, their point of view switched when ever they were given detailed explanation on the benefits of blood sugar values in dental treatment.

Treatment costs were rated as high by most participants. This is similar to studies carried out in Tanzania, Burkina faso and Nigeria [55]. This explains the little drop in participants' estimated accessibility ratings, followed by a decrease and hence a drop in their satisfaction. Furthermore, Dental treatment often warrants the use of dental materials and consumables that are costly. The reported high treatment cost could be as a result of participants' lack of knowledge on the stakes dental treatment holds, given that dental treatment has been classified as the "fourth most expensive treatement in most industralised countries" [56].

Participants thought of medication cost as being moderate and gave little complaints on the matter compared to treatment and consultation costs. This could be because pPatients in these hospitals are not oblarged to buy their drugs from the hospital pharmacycan buy their drugs from where ever they deem convenient, aConsequentlys a result, they cannot directly blame the hospital for drug prices. Furthermore, drugs frequently prescribed in dental medicine involve antibiotics, anti-inflammatory drugs and paracetamol, most of which are essential drugs in Cameroon, hence relatively cheap and available.

Data shows that participants reported a high equity among patients. This is not surprising, given the relationship that exists between the medical staff and patients visiting these hospitals. Every participant was well received and treated without any display of favoritism or preference. Health equity means that everyone has a fair and just opportunity to be as healthy as possible [57].

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<del>III.</del>

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### III. ENVIRONMENT

The dental departments were identifiable for most participants. This might be because participants who took part in this study had been to these hospitals at least once. However, when prompted for more information as concerns their first visits, majority of participants from Cité Verte, revealed that they faced difficulties making their way to the dental department and had to make inquiries for that purpose. This shows that patient circulation in Cité Verte presents a problem that needs to be addressed given the importance it carries on patient experience as well as patient satisfaction. In Biyem-Assi on the other hand, this problem was not encountered by many participants probably as a result of the high exposure of the dental department.

The receptions in these hospitals were often open and functioning throughout working hours and sometimes beyond. This enabled that patients were always received or always had a chance to be received. This further explains the high satisfaction ratings expressed by participants in these hospitals.

Though most participants found the waiting room as being comfortable, a greater percentage of participants from CV reported that the environment was uncomforble. The top reason for this was a lack of intimacy. This may be due to the fact the there is only one dental room at CV, and no reception for incoming patients. As a result other patients for one reason or the other sometimes find themselves in the treatment room, compromising the intimacy of patients being treated. The other reason might be the constant visit from medical delegates. An average number of about five medical delegates visit the dental department at Cite CVDH daily, and sometimes during working hours. Doctors are often oblarged to attend to them while a patient is being treated since no time is allocated for doctors to attend to them. This also leads to a compromise in patient intimacy. Studies show that the absence of privacy due to the sharing of the same dental office environment can be a source of embarassement and feelings of dissatisfaction due to a breach of confidentiality, shame in showing one's mouth to the others or insecurity [58]

The tidiness of the environment was commonly reported by most participants. This could have had a positive effect on patient stay in the hospital and hence on patient satisfaction. Furthermore, a tidy environment is primordial both for the comfort of both the medical staff and the patient being treated. However, these results are contrary to a study carried out in Tanzania where most participants gave poor ratings to the cleanliness of the environment [59]. The physical environment of the hospital or the clinic is critical to the quality of services provided and a major determinant of patient satisfaction. Patients have the right to be care for in a clean and safe environment [60].

Waiting hours drew more complaints from participants than anyother variable in this dimension. The average waiting period in both hospitals of study was more than an hour, with some patients having to wait for close to five hours before being attended to. This was more pronounced at the CVDH and could be explained by the lack in the technical plateform. In BA, this can be explained by the long queu often seen in the dental department. The level of satisfaction of patients with the environement decreased as waiting time exceeded one hour. Waiting time refers to the time a patient waits in the clinic before being seen by one of the clinics medical staff. Patients perceive long waiting times as a barrier to actually obtaining services, reason for which studies recommend that atleast 90% of patients be seen within 30 minutes of their scheduled appointement time. This is not the case in developing countries where patients spend 2-4 hours in the outpatient departments before seeing the doctor. These results are similar to those observed in Benin (173 minutes) and in Nigeria (1hour 13minutes) [61]. Studies show that dental patients do not want to wait for long periods prior to dental therapy. Any failure in fulfilling this expectations might lead to expressions of dissatisfaction from patients, given that long waiting hours are the cause of anxiety and boredom.

From the results, hospitals of study had no source of distraction for waiting patients. This might have had a negative impact on patient satisfaction, given the long waiting hours observed in these hospitals.

From the data collected, it was observed that those who rated data entry speeds as fast also rated the environment as satisfying and those who rated data entry speeds as slow, were undecided about their environment ratings. This clearly illustrates a close link between the speed of administrative procedures and patient satisfaction to the services rendered in the dental departments of these hospitals. This is contrary to a study carried out in Pakistan in 2019, where an insignificant link was observed between administrative procedures and patient satisfaction [62].

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### IV. SERVICE QUALITY

Services provided were considered to be in line with their oral health needs of most participants. This could be explained by the fact that participants' expectations as concerns dental healthcare were relatively low, resulting in greater satisfaction ratings as most of their expectations were met [63].

A majority of participants strongly agreed that the staff was dependable. When prompted for more information, it was confirmed that none of the participants had been refered to any other dental clinic for the management of their dental pathology. This could be one of the reasons for high satisfaction ratings among participants. However, the number of participants was slightly higher in BA than in CV. This may be due to the small technical plateform at CV and might explain the high satisfaction ratings observed in BA in comparison to CV.

Treatments received were strongly perceived as effective in both hospitals of study. This could be due to the fact that participants felt relief in their symptoms after their visit to these hospitals. Few participants complaints were registered either on the persistence of their symptoms or a relapse in to their initial state. However, the level of satisfaction was insignificantly ultered in these participants. This is similar to a study conducted at the Central Hospital in Yaounde in 2018 [47].

The willingness to help or responsiveness was high in both hospitals though slightly higher at BADH compared to CVDH. This could be explained by the an organized staff in BA compared to CV where the Doctor sometimes has to attend to almost everything as versus specific details. This could have explained the slightly lower satisfaction ratings observe at CVDH. This is contrary as studies report a negative responsiveness of health workers in the public sector [19]. Records are one of the most important components of a patient visit. Most participants reported that their records were error free. This could be explained by the fact that the staff made sure that records are well filled. This might have resulted in high patient satisfaction ratings among participants. Furthermore, participants reported that prescriptions were always well explained even to patient stat could not understand them, leading to high satisfaction levels. Studies have shown that physician-patient relationship is a powerful tool to improve the satisfaction, compliance and adherence of patients to a care plan [64].

Most participants considered the time of service provision as being average. Even though part of participants reported this time as being long, this had a positive effect on their satisfaction levels. This is because they linked the time spent treating them to a high quality of care and

attention from the practitioner. The time spent on solving dental problems in the hospitals is one of the aspects that affect patient satisfaction [65].

Most participants were of the accord that they were always given treatment information before treatment. Those who reported otherwise did so because the practitioner might have had language difficulties and thus was not had able to express themselves to these patients. However, 90% of participants reported that their questions were always well answered whenever they asked the staff. This demonstrates good communication between the staff and patients. Communication affects patient satisfaction as well as the perceived quality of care experienced by a patient. Studies reveal that effective communication with patients is required to intergrate safe and effective care as it plays a role in creating quality of services, affecting patient outcomes [66].

From the results, participants strongly agreed to the courteousness of the staff. This had a positive consequence on patient satisfaction. Studies reveal that patients greatly value being treated by a caring dentist who respects and listens to their concerns without "blaming" them for their dental concerns. These patients complied with and supported preventive care options because "they were being treated as individuals, not as patients [67].

From the results, most participants strongly agreed that the staff is attentive to patient needs. Studies show that interpersonal factors like friendliness caring and sympathy are the most reported determinants associated with satisfaction with health services. Bonding with patients by thoughtfully asking about his/her health beyond issues related to the chief complaint was associated with satisfaction. The same study further explains that this simple method has been shown to boost patient satisfaction in both Brazilian dental and medical settings [68].

When prompted for convenience in working hours, a great part of participants reported that working hours were convenient. This was confirmed by the fact that the medical staff sometimes received participants even after closing time, sometimes extending to about 2 hours 30 minutes after closing time. However, some participants expressed the need for night shifts and for working hours extending to Sundays. This is contrary to a study carried out in Tehran, Iran, where patients rated waiting hours as being inconvenient [69].

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# V. GLOBAL SATISFACTION

The global satisfaction level in this study was high (3.55). This can be seen in the fact that most patients were satisfied with the services provided in the hospitals (86.5%). Similar results have been obtained in studies caried out in the United States and in the West Indies [5, 47]. These results were contrary to a study carried out in Brazil [70]. In this study, global satisfaction ratings were strongly linked to sex education and profession of participants. This is not a surprise, given that studies are in line with these findings [46, 71].

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Conclusion.

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# CONCLUSION

### **Conclusion**

The present study was conducted to assess patient satisfaction with oral healthcare in two district hospitals in Yaounde. Patient satisfaction is considered one of the most important aspects in healthcare, as it impacts the utilization of the services provided by a practice and so greatly affects its success.

This study is in line with studies that recorded high patient satisfaction levels. As such, the research hypothesis formulated at the beginning of the study was surpassed. This is good, as it is a translation of the quality of dental services rendered in these hospitals. The level of patient satisfaction recorded might have been so because aspects such as patient perception of the care rendered by students, the technical platform of the hospitals of study, as well as their human resources were not assessed.

Data analysis led to the conclusion that the level of satisfaction experienced by patients in these two districts is strongly influenced by accessibility (financial accessibility), environment (waiting time and patient intimacy), and care quality (patient-practitioner relationship, treatment information, and symptom evolution). The level of satisfaction experienced by participants in these dimensions was average, high and high respectively. However, improvements still need to be done in aspects such as financial accessibility, waiting time and patient intimacy.

Though the objective of the study was attained, this study did not assess the satisfaction ofpatients visiting for the first time. This assessment is important because though patient satisfaction influences compliance to treatment as well as service utilization, it is admitted that the patient's first impression impacts the patients satisfaction level as well. An ideal research should take into consideration patients' satisfaction levels before, during and after utilization of the services offered. However, this approach might be cumbersome, and demanding in terms of time, human, and material resources. a mis en forme : Espace Après : 0 pt

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# RECOMMENDATIONS

### **Recommendations**

In the light of the results obtained, we humbly suggest the following recommendations to better patient experience.

# To the Ministry of Public Health

- Ensure that hospital norms as concerns the technical platform and human resourses are respected in all District Hospitals. This will enable that patient satisfaction in one aspect or the other does not vary considerably in hospitals at the same level in the health pyramide.
- Provide hospitals with generators and water supply systems. This will partly solve the problem of prolonged waiting times.

### To the hospitals of study

- Conduct frequent patient satisfaction surveys as this will enable them to know patient expectations.
- Improve patient comfort and experience during waiting hours by providing patients with health talks, newspapers or television sets etc.

### To the medical staff

• Re-enforce patient-practitioner relationships. Patient satisfaction is strongly influence by the patient-practitioner relationship in areas such as communication, empathy, responsiveness and question answering.

### To researchers

• Carryout more research on the subject, so as to obtain data applicable in the Cameroonian context.

### To patients

 Freely but respectfully express their minds concerning the services rendered, as it concernst their health and the health of those close to them. a mis en forme : Paragraphe de liste, Justifié, Interligne : 1,5 ligne, Avec puces + Niveau : 1 + Alignement : 0 cm + Retrait : 0,63 cm

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Appendixes References

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# REFERENCES

### <u>AppendixesReferences</u>

- 1. World Health Organization (WHO). Oral health [Online]. 2021[consulted on the 24<sup>th</sup> November 2021]. Available at: https://www.who.int/health-topics/oral-health#tab=tab\_1
- Le Courrier du dentiste. 98% de camerounais touchés par les maladies parodontales [Online]. 2019 [consulted on the 24th November 2021]. Available at: https://www.lecourrierdudentiste.com/nationales/98-des-camerounais-touches-pardes-maladies-parodontales.html
- Newsome PR, Wright GH. A review of patient satisfaction: 1. Concepts of satisfaction. Br. Dent J. 1999;184(4):161-5.
- 4. Mahmut A, Ayhan D. Impact of patient satisfaction on patient commitment and the mediating role of patient trust. J patient Exp. 2020;7(6):1642-7.
- Klaassen H, Dukes K, Marchini L. P atient satisfaction with dental treatment at a university dental clinic: A qualitative analysis. J Dent Educ. 2021;85(3):1-11.
- Amporfro DA, Boah M, Yingqi M, Wabo CMT, Zhao M, Nkondjock NRV, Wu Q. Patient satisfaction with healthcare delivery in Ghana. J Environ Public Health. 2020;2020:2-13.
- World Dental Federation (FDI). Improving access to oral healthcare [Online]. 2021 Sept [Consulted on the 23<sup>rd</sup> May 2022]. Available at: https://www.fdiworlddental.org/improving-access-oral-healthcare
- WHO. Quality of care [Online]. 2022 [consulted on the 23<sup>rd</sup> May 2022]. Available at: <u>https://www.who.int/health-topics/quality-of-care#tab=tab\_1</u>
- International General Insurance (IGI global). What is hospital environment [Online]. 2022 [consulted on the 23<sup>rd</sup> May 2022]. Available at: <u>https://www.igi-global.com/dictionary/hospital-environment/55914</u>
- 10. Biya M, Gezahagn M, Birhanu B, Yitbaret K, Getachew N, Bayene W. Waiting time and its associated factors in patients presenting to outpatient departments at the public hospitals of Jimma Zone, Southwest Ethiopia. 2022;22:1-8.
- Vladimir S, Veljko M. Patient care, satisfaction and service quality in healthcare. Int J Consum Stud. 2013 ;36(3):312-9.
- 12. Noorain Y, Suryani CD, Dilla S AL, Siti M. Patient satisfaction with access to 1Malaysia Clinic. Procedia Soc. 2013;91:395-402.
- 13. Garnier C. Qu'est-ce qu'une carie [Online]. 2018 [Consulted on the 3rd December 2021]. Available at: https://dr-garnier-christophe.chirurgiens-dentistes.fr/carie/
- Muhammad N, Asim A-A, Khalifa A-K, Muhamad A, Balgis G, Khalid A. Global prevalence of periodontal diseases and lack of its surveillance. Sci World J. 2020;2020:1-6.
- 15. Ali DA. Patient satisfaction in dental healthcare centers. Eur J Dent. 2016;10:309-14.
- Hossain Z, Marzieh K. Armen E, Monir M, Zahra R, Mohammad AJ. Determinants of patient satisfaction with ophthalmic services. BMC Res Notes. 2011;4:1-2.
- 17. WHO. Regional oral health stategy 2016-2025 :Addressing oral health diseases as part of noncommunicable diseases. Addis Ababa : WHO:2016.
- Gillian HW. Review of patient satisfaction: 1 concepts of satisfaction. Br Dent J. 2015;186(4):161-5.

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- 19. Ehsan Z, Abbas D, Behrooz P, Sima M, Mohammad A. An empirical study of the impact of service quality on patient satisfaction in private hospitals Iran. Glob J Health Sci. 2015;7(1);1-4.
- 20. Krot K, Rudaskwa I. Is patients' satisfaction the key to promote compliance in the healthcare sector. Econs Sociol. 2019;12(3):291-300.
- 21. Umoke M, Umoke Pc, Dwimo IO, Nwalieji CA, Onwe RN. Patient satisfaction with quality of care in general hospitals in Ebony state Nigeria using SERVQUAL theory. SAGE open Med. 2020 ;8:1-9.
- 22. Iftikhar A, Allah N, Siraj Ud. Dynamics of patient satisfaction from health care services. Gomal J med sci. 2011;9(1):37-8.
- 23. Vladimir S, Veljko M. Patient care, satisfaction and service quality in healthcare. Int J Consum Stud. 2013;37(3):312-9.
- 24. Umoke M, Umoke Pc, Dwimo IO, Nwalieji CA, Onwe RN. Patient satisfaction with quality of care in general hospitals in Ebony state Nigeria using SERVQUAL theory. SAGE open Med. 2020;8:1-9.
- 25. Omona K, Nakandi L, Nambi AB, Nakayiza FM, Nanozi M. Factors associated with patient satisfaction to health care at Mpigi Health Center IV, Mpigi District-Uganda. CJMS. 2021;1(4):1-12.
- 26. Bui TTQ, Nguyen TH, Hoang VM. Outpatient satisfaction with primary healthcare services in Vietnam: multilevel analysis results from the Vietnam Health facilities Assessment 2015. Health Psychol. Open. 2021 Jun;8(1):1-11.
- 27. Kaja P, Riina K, Kersti M, Margus L. Satisfaction with access to health services: The perspective of Estonian patients with rheumatoid arthritis. Sci World J. 2012;2012:1-2.
- 28. Levesque JF, Grant MR, Harris FM. Patient-centered access to healthcare: conceptualizing access at the interface of health systems and populations. Int J Equity Health. 2013;12:1-9
- 29. Pablo CB, Thomas B, Stefan K. Explaining accessibility and satisfaction related to healthcare: A mixed-methods Approach. Soc Indic Res. 2017;133:719-39.
- 30. Chen GJ, Zou B, Shuster J. Relationship between patient satisfaction and physician characteristics. J Patient Exp. 2017;4(4):177-84.
- 31. Noorain Y, Suryani CD, Dilla S AL, Siti M. Patient satisfaction with access to 1Malaysia Clinic. Procedia Soc. 2013;91:395-402.
- 32. Grondahl AV, Kirchhoff WJ, Andersen KL, Sorby AL, Andreassen HM, Skuag AE et al. Health care quality from patient's perspective: a comparative study between an old and a new, high-tech hospital. J Multidiscip Healthc. 2018;11:591-600.
- 33. Xesfingi S Vozikis A. Patient satisfaction with healthcare system: assessing the impact of socio-economic health provision factors. BMC Health sci. 2016;16:1-7.
- 34. Goodacre S, Campbel M, Carter A. What do hospital mortality rates tell us about quality of care? Emerg Med J. 2015;32(3):244-7.
- 35. WHO. Manual of patient safety assessment. Third edition. Cairo: WHO Regional Office for the Eastern Mediterranean; 2020.
- 36. Mariam A, Nouf A. The physical environment and patient satisfaction ratings on social media: an explanatory study. 2019;38:86-97.

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#### AppendixesReferences

- 37. Mehmet AK, Bulent E, Mahir O. Waiting in the emergency room ; patient and attendant satisfaction and perception. Eur J Surg Sci. 2011; 2(1): 1-4.
- 38. Mario DPM, Maria IBS, Gizelton PL, Lorrany GL, Jannis SDP, Raquel DP. User satisfaction with public oral health services in the Brazilian Unified Health System. BMC Oral Health. 2015;19(1):1-3.
- 39. Marita RI, Habil P, Alexander HL, Christine GK, Taylor AM, Jenna MW. Do waiting time in dental offices affect patient satisfaction and evaluation of patient-provider relationships? A Quasi-experimental study. JDH. 2016;90(3):203-11.
- 40. Yong AJ, Mohamad N, Saddki N, Ahmad WMAW, Alam MK. Patient satisfaction towards dentist-patient interaction among patients attending outpatient dental Clinic hospital universiti sains malaysia. Pesqui Bras Odontopediatria Clin Integr [Internet]. 2021[cited 2022 April 23]. Available at: https://novo.revista.uepb.edu.br/PBOCI/article/view/661
- Habib SR, Ramalingam S, Al Beladi A, AL Habib A. Patient's satisfaction with the dental care provided by dental students. J Ayub Med Coll Abbottabad. 2014; 26(3):353-6.
- 42. Pakkhesal M, Ahmady AE, Zaframand AH, Sadeghipour M, Attaran Nona. Non-clinical expectations of patients in an oral healthcare setup : A qualitative research. BJMMR. 2016;14(11):1-8.
- 43. Matofari B, Machibya FM, Mtaya-Mlangwa M, Kikwily NE. Patient satisfaction towards dental health services offered at Mnazi-Mmoja Dental clinic in Dar Es Salaam, Tamzania. Oral Health Dental Sci. 2021;5(3):1-5.
- Allah AMB, Elwansy SM, El-Shafei D. Patient satisfaction at dentist clinic in Zagazig University Hospitals Egypt. J Public Health Med. 2017;2(4-1):1-6.
- 45. Adeniyi AA, Adegbite KO, Braimoh MO, Ogunbanjo BO. Factors affecting patient satisfaction at the Lagos State University Teaching Hospital Dental Clinic. Afr J Med Med Sci. 2013;42(1):25-31.
- 46. Abiodun-Solanke IMF, Lawal FB, Ajayi DM. Patient's waiting experiences and satisfaction with oral care delivery at two levels of care in Ibadan Nigeria. Afr J Med Med Sci. 2018;41(1):51-8.
- 47. Agbor A, Denmatou F, Azodo C. Reasons for late dental consultations at the central hospital of Yaounde. EC Dental Science. 2018;17(4):360-7.
- 48. Jong MA, Tchouapi MRP. Assessing user satisfaction with quality of healthcare services in Cameroon. AERC. 2020;672;5-9.
- Jacobsen KH, Hasumi T. Satisfaction with healthcare services in South Africa. Pan Afr Med J. 2014 Jun;18:1-4.
- 50. Ali DA. Patient satisfaction in dental healthcare centers. Eur J Dent. 2016; 10: 309-14.
- 51. Balkaran BL, Osoba T, Rafeck R. A cross-sectional study of patient's satisfaction with dental care facilities: A survey of adult treatment at the University of West Indies, School of Dentistry. West Indian Med J. 2014; 63(5):490-8.
- 52. United Nations Education Scientific and Cultural Organization (UNESCO). literacy rate, adult (% of people ages 15 and above)- Cameroon[Online]. 2021 [consulted on the 19<sup>th</sup> May 2022]. Available at: <u>http://data.worldbank.org/indicator/SE.ADT-lITR.Zs?end=2018</u>

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53. Kouete V. Cameroon: 90% of the labor force trapped in the private sector [Online]. 2020 [Consulted on the 23 <sup>rd</sup> April 2022]. Available at: <u>https://blog.private-sector-and-development.com/2020/01/23/cameroon-90-of-the-labor-force-trapped-in-the-informal-sector/</u>	a mis en forme : Taquets de tabulation : Pas à 8 cm Code de champ modifié
54. Fortune of Africa. Transport system in Yaounde city in Cameroon [Online]. 2020 [consulted on the 23 <sup>rd</sup> of April 2022]. Available at: <u>https://fortuneofafrica.com/cameroon/2014/04/09/transport-system-in-yaounde-city-in-cameroon/</u>	Code de champ modifié
55. Nyamuryekung'e KK, Lahti LM, Tuominen RJ. The relative patient costs and availability of dental services, materials and equipment in public oral care facilities in Tanzania. BMC Oral Health. 2015;15:1-4.	
56. Yong AJ, Mohamad N, Saddki N, Ahmad WMAW, Alam MK. Patient satisfaction towards dentist-patient interaction among patients attending outpatient dental Clinic hospital universiti sains malaysia. Pesqui Bras Odontopediatria Clin Integr [Online]. 2021 [cited on the 23 <sup>rd</sup> April 2022]. Available at: <u>https://novo.revista.uepb.edu.br/PBOCI/article/view/661</u>	Code de champ modifié
57. Garvin J. Health equity and dentistry [Online]. 2021 [cited on the 23 <sup>rd</sup> April 2022]. Available at: <u>https://www.ada.org/publications/ada-news/2021/may/health-equity-and-dentistry</u>	Code de champ modifié
<ol> <li>Mario DPM, Maria IBS, Gizelton PL, Lorrany GL, Jannis SDP, Raquel DP. User satisfaction with public oral health services in the Brazilian Unified Health System. BMC Oral Health. 2015;19(1):1-9.</li> </ol>	
59. Matofari B, Machibya FM, Mtaya-Mlangwa M, Kikwily NE. Patient satisfaction towards dental health services offered at Mnazi-Mmoja Dental clinic in Dar Es Salaam, Tamzania. Oral Health Dental Sci. 2021;5(3):1-5.	
60. Armad I, Nawaz A, Din SU. Dynamics of patient satisfaction from healthcare services. 2011;9(1):37-41.	
61. Marita RI, Habil P, Alexander HL, Christine GK, Taylor AM, Jenna MW. Do waiting time in dental offices affect patient satisfaction and evaluation of patient-provider relationships? A Quasi-experimental study. JDH. 2016;90(3):203-11.	
62. Hussain A, Asif M, Jameel A, Hwang J. Measuring OPD patient satisfaction with different service delivery aspects at public hospitals in Pakistan. <u>Int J Environ Res</u> <u>Public Health.</u> 2019;16(13):1-5.	Code de champ modifié
63. Newsome PL, Wright GH. A review of patient satisfaction: 2. Dental patient satisfaction: an appraisal of recent literature. Br Dent J. 1999;186(4):166-70.	a mis en forme : Anglais (États-Unis)
64. Wali RM, Alqahtani RM, Alharazi SK, Bukhari SA, Quqandi SM. Patient satisfaction with the implementation of electronic medical records in the western region, Saudi	a mis en forme : Police :(Par défaut) Times New Roman pt, Anglais (États-Unis) a mis en forme : Anglais (États-Unis)
Arabia, 2018. BMC Fam Pract. 2020;21(1):37-9.	a mis en forme : Anglais (Royaume-Uni)
65. Marcinowicz L, Chlabicz S, Grebowski R. Patient satisfaction with healthcare provided by family doctors: primary dimensions and an attempt at typology. BMC Health Ser	a mis en forme : Anglais (Royaume-Uni) a mis en forme : Police :(Par défaut) Times New Roman
Res. 2009;9:63-5.	pt, Anglais (Royaume-Uni)
66. Ratna SD, Kartikasari D, Herya UN. Impact of Effective Communication on the Quality of Excellent Service and Patient Satisfaction in the Outpatient Department. KLS [Online]. 2021 [cited on the 28 <sup>th</sup> May 2022]; 6(2): 232–244. Available at:	
https://knepublishing.com/index.php/KnE-Life/article/view/8883	Code de champ modifié

Doctorate thesis in dental medicine written by FONYUY Michael WOLANI

### Appendixes References

pendixes <u>References</u> 45	 <b>a mis en forme :</b> Police :(Par défaut) Times New Roman, 12 pt, Anglais (États-Unis)
	a mis en forme : Taquets de tabulation : Pas à 8 cm
67. Packkhasel M, Armady AE, Zafarmand AH, Sadeghipour M, Attaran N. Non-clinical	
expectations of patients in an oral healthcare set-up: A qualitative research. BJMMR.	
2016 14(11) 1.9	

- expectations of patients in an oral healthcare set-up: A qu 2016;14(11):1-8. 68. Aldosan MA, Tauares MA, Malta-machado ATG, Abreu MHNG. Factors associated
- with patient's satisfaction in Brazilian dental primary health care. Plos One. 2017;12(11):1-13.
- 69. Rahul N, Sana I, Andrew JS, Liana L, Loc GD. Critical review of the validity of patient satisfaction questionnaire pertaining to oral healthcare. Community Dent Oral Epidemiol. 2018;46(4):369-75.
- 70. Rashid AA, Amina AB. Patient satisfaction survey as a tool towards improvement. Oman Med J. 2014;29(1):3-7.
- 71. Djordjevic IM, Vasiljevic D. The effect of sociodemographic factors on patient satisfaction with health care system. Serb J Exp Clin Res. 2019;20(3):251-5

Doctorate thesis in dental medicine written by FONYUY Michael WOLANI

a mis en forme : Anglais (États-Unis)

<u>Appendixes</u>

a mis en forme : Police :(Par défaut) Times New Roman, 12 pt, Anglais (États-Unis) a mis en forme : Taquets de tabulation : Pas à 8 cm

# APPENDIXES

<u>endixes</u>	XXI a mis en forme : Police :(Par défaut) Times N pt, Anglais (États-Unis)
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FACULTÉ DE MÉDECINE ET DES SCIENCES BIOMÉDICALES FACULTY OF MEDICINE AND BIOMEDICAL SCIENCES	
COMITÉ INSTITUTIONAL ETHICAL REVIEW BOARD	
Tel/fax: 22 31-05-86 22 311224	
Email: decanatfmsb@hotmail.com	
Ref. : Nº 197- /UY1/FMEB/VDRC/DAASR/CSD	
CLAIRANCE ÉTHIQUE	
<b>2 8</b> AVR 2022	
Le COMITÉ INSTITUTIONNEL D'ÉTHIQUE DE LA RECHERCHE (CIER) de la FMSB a examiné	
La demande de la clairance éthique soumise par :	
M.Mme : FONYUY MICHEAL WOLANI Matricule: 15M164	1
Travaillant sous la direction de : • Pr ESSI Marie José	
Dr. MBEDE Rose	
Concernant le projet de recherche intitulé : ASSESSMENT OF PATIENT SATISFACTION WITH ORAL HEALTHCARE OFFER AT THE BIYEM ASSI DISTRICT HOSPITAL	
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	MINISTERE DE LA SANTE PUBLIQUE MINISTRY OF PUBLIC HEALTH		
	SECRETARIAT GENERAL SECRETARY GENERAL		
	COMITE REGIONAL D'ETHIQUE DE LA CENTRE REGIONAL ETHICS COMMINTEE RECHERHE POUR LA SANTE DU CENTRE DU CENTRE FOR HUMAN HEALTH RESEARCH		
	Tel : 222 21 20 87/ 677 75 73 30		
	CE No - 1 8 9/CRERSHC/2022	2022	
	ETHICAL CLEARANCE		
	The Centre Regional Ethics Committee for Human Health Research (CRERSH-Ce) has received the		
	request for an ethical approval for the project entitled "Assessment of patient satisfaction with oral		
	healthcare at the Biyem-Assi District Hospital " submitted by Mr FONYUY Michael Wolani.		
	After evaluation, it appears that the subject is worthy of interest, the objectives are well defined, and		
	the research procedure does not include invasive methods harmful to the participants. In addition, the		
	informed consent form intended for participants is acceptable.		
	For these reasons, the CRERSH-Ce approved for a period of six (06) months the implementation of		
	the current version of the protocol.		
	The Principal Investigator is responsible for scrupulous compliance with the protocol and must not		
	make any amendments, however minor, without the favourable approval of the CRERSH-Ce. In addition, the Principal Investigator is required to:		
	- collaborate on any descent from the CRERSH-Ce for monitoring the implementation of the approved protocol.		
	<ul> <li>and submit the final report of the study to the CRERSH-Ce and to the competent authorities concerned by the study.</li> </ul>		
	This clearance may be withdrawn in the event of non-compliance with the regulations in force and		
	the directives mentioned above.		
	In witness whereof the present Ethical Clearance is issued with the privileges thereunto pertaining./-		
	Copy: The National Ethics Committee for Human Health Research (CNERSH) asthered asthered Chair person		
	Regional Ethics Committee, Centre region, Yaoundé		
	Provide the second seco		
	www.minsante.gov.cm		

## <u>Appendixes</u>

Appendix 2 : Research autorisations for Biyem-Assi and Cite Verte District Hospitals

REPUBLIQUE DU CAMEROUN Paix – Travail – Patrie MINISTERE DE LA SANTE PUBLIQUE DELEGATION REGIONALE DU CENTRE DISTRICT DE SANTE DE BIYEM-ASSI HOPITAL DE DISTRICT DE BIYEM-ASSI BP : 31 350 Ydé .Tél./Fax 22.31.64.05



REPUBLIC OF CAMEROON Peace-Work-Fatherland MINISTRY OF PUBLIC HEALTH CENTER REGIONAL DELEGATION BIYEM-ASSI HEALTH DISTRICT BIYEM-ASSI DISTRICT HOSPITAL E-mail:hopital\_biyemassi@yahoo.fr

N°\_3451/AR/MINSANTE/DRSPC/DSBA/HDBA.

## AUTORISATION DE RECHERCHE

Le Directeur de l'Hôpital de District de Biyem-Assi à Yaoundé soussigné, donne autorisation de recherche à Monsieur FONYUY Michael Wolani, étudiant en 7<sup>ème</sup> année de Médecine Bucco-Dentaire à la Faculté de Médecine des Sciences Biomédicales de L'Université de Yaoundé I (FMSB) dont le thème porte sur : « Assessment of patient satisfaction to oral at the Biyem-Assi District Hospital».

En foi de quoi la présente autorisation est établie et lui est délivrée pour servir et valoir ce que de droit.

Yaoundé, le 2 4 DEC 2021	
Le Directeur * Le Directeur * Le Directeur Médecin - Cardiologue	

Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI

#### XXIII

a mis en forme : Police : (Par défaut) Times New Roman pt, Anglais (États-Unis)

a mis en forme : Taquets de tabulation : Pas à 8 cm a mis en forme : Police :(Par défaut) Times New Roman, 12 pt, Anglais (Royaume-Uni)

a mis en forme : Légende, Centré, Retrait : Première ligne : 0 cm

# <u>Appendixes</u> XXIV a mis en forme : Police : (Par défaut) Times New Roman pt, Anglais (États-Unis) a mis en forme : Taquets de tabulation : Pas à 8 cm a mis en forme : Police :(Par défaut) Times New Roman, 12 pt, Italique, Couleur de police : Texte 2, Français (France) REPUBLIQUE DU CAMEROUN REPUBLIC OF CAMEROON Paix – Travail – Patrie Peace - Work - Fatherland B a mis en forme : Retrait : Première ligne : 0 cm MINISTRY OF PUBLIC HEALTH DELEGATION REGIONALE DU CENTRE REGIONAL CENTER DELEGATION DISTRICT DE SANTE DE LA CITE VERTE CITE VERTE HEALTH DISTRICT HOPITAL DE DISTRICT DE LA CITE VERTE CITE VERTE DISTRICT HOPISTAL B.P. : 3604 Messa-Yaoundé Tél. : 22-22-87-34 / 22-22-12-73 Yaoundé le, 25 MA1 2022 N° 037 /L/Minsanté/DRC/DSCV/HDCV LE DIRECTEUR MONSIEUR FONYUY Michael WOLANI **Objet** : Autorisation de recherche Monsieur, Je soussigné, Dr Paul ELOUNDOU ONOMO, Directeur de l'hôpital de District de la Cite Verte, accuse réception de votre lettre du 22 février 2022 dont l'objet est cidessus repris en marge. Y faisant suite, Je vous voudrais vous signifier de mon accord pour la collecte de données relatives à l'étude portant sur le Thème : « ASSESSMENT OF PATIENT SATISFACTION HEALTEARE AT THE BIYEM-ASSI DISTRICT HOSPITAL AND CITE-VERTE DISTRICT HOSPITAL». Aussi, seriez-vous obligés de respecter le règlement de notre structure pendant la période de votre collecte. Veuillez croire, Monsieur, en l'assurance de ma parfaite considération. DIRECTEUR Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI

<u>Appendixes</u> XXV	a mis en forme : Police :(Par défaut) Times New Rom. pt, Anglais (États-Unis)
	a mis en forme : Taquets de tabulation : Pas à 8 cm
ETHICAL AND ADMINISTRATIVE CONSIDERATIONS	a mis en forme : Centré
INFORMATION FOR Appendix 3.: Patient information forms in English and French	a mis en forme : Police :12 pt, Non Italique, Couleur o
(English version)	police : Texte 1, Anglais (Royaume-Uni) a mis en forme : Police :Non Italique, Couleur de polic Automatique, Anglais (Royaume-Uni)
Study title : « Assessment of patient satisfaction with oral health care offers at the Biyem-	a mis en forme : Légende, Centré, Interligne : simple
Assi District Hospital»	a mis en forme : Police :12 pt, Non Gras, Anglais (Royaume-Uni)
Research team :	
Investigateur : FONYUY Michael Wolani, 7th year dental medicine student at the Faculty of	
Medicine and Biomedical sciences, University of Yaoundé I. Tel: 681098958/693086998;	
Email : Michael.fonyuy@fmsb-uy1.cm	Code de champ modifié
Director : Pr ESSI Marie José	•
Co-director : MBEDE NGA MVONDO Rose	a mis en forme : Anglais (Royaume-Uni)
Study interests: Patient satisfaction is an important concept both for the health facility and for	
the patients benefiting from the services provided by the health facility. This study will help in	
the provision of scientific information that might help the government and stake holders take	
decisions that would help improve patient.	
<b>Cost:</b> apart from the time used in answering the questionnaire, this study will cost you nothing	
more be it financially or materially.	
Proceédure : If willing to take part in this study, you will complete a questionnaire on patient	a mis en forme : Anglais (Royaume-Uni)
satisfaction with oral healthcare. This might take 17 minutes of your time.	
si vous acceptez de participer à cette étude, vous répondrez à un questionnaire en rapport	a mis en forme : Police :Gras, Anglais (Royaume-Uni)
avec la satisfaction des patients a l'offre des soins bucco-dentaires. La réponse aux	
<del>questions prendra environ 17 minutes.</del>	
Ethics and confidentialityÉthique et confidentialité; you information will be kept	a mis en forme : Anglais (Royaume-Uni)
confidentialtous les renseignements obtenus resteront strictement confidentiels The	a mis en forme : Anglais (Royaume-Uni)
questionnaire will be anonymously labelled to preserve participants integritiy. Nos	
questionnaires seront anonymes afin de préserver l'intégrité du répondant. You are free to either	
take part in the study or not to without any effects or consequences on the your treatment.	
Furthermore, you are free to leave the study when ever you deem it necessary.	
In case you need more information, you might want to contact our research directors:	
Director: Pr ESSI Marie-José Email : mariejose.essi@fmsb-uy1.cm	
Co-director : Dr MBEDE NGA MVONDO Rose Email : rose.mbede@yahoo.fr	a mis en forme : Anglais (Royaume-Uni)

	Appendixes XXVL		a mis en forme : Police :(Par défaut) Times New Roman	],
1			<b>a mis en forme :</b> Police :(Par défaut) Times New Roman pt, Anglais (États-Unis)	
	Researcher: FONYUY Michael WOLANI, 7 <sup>th</sup> year dental medicine student at the FMBS. Tel:	ľ	a mis en forme : Taquets de tabulation : Pas à 8 cm	
	693086998; Email: fmichaelwolani@gmail.com		a mis en forme : Exposant	
	<u>095080998; Email: iniciaeiwolani(@gmail.com</u>			П
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XXVII

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(French version)

**Appendixes** 

Titre de l'étude : « Evaluation de la satisfaction a l'offre des soins a l'Hopital Central de Yaounde»

Intérêt de l'étude : La satisfaction des patients est un concept important à la fois pour l'établissement de santé et pour les patients bénéficiant des services fournis par l'établissement de santé. Cette étude aidera à fournir des informations scientifiques qui pourraient aider le gouvernement et les décideurs à améliorer les services de santé bucco-dentaire.

**Cout :** a l'exception du temps utilisee pour remplir le questionnaire, cette etude ne vous coutera rien d'autre, que se soit financier ou materiel

**Procédure** : si vous acceptez de participer à cette étude, vous répondrez à un questionnaire en rapport avec les thérapeutiques buccodentaires. La réponse aux questions prendra environ 10 minutes.

Éthique et confidentialité : tous les renseignements obtenus resteront strictement confidentiels. Nos questionnaires seront anonymes afin de préserver l'intégrité du répondant. Vous avez la liberté de choisir ou non de participer à l'étude, sans aucun risque préjudiciable sur votre travail, vous êtes libres de quitter cette étude à tout moment lorsque vous l'aurez décidé.

Veillez contact nos encardeurs en cas de besoins d'information via :

Directeur : Pr Essi Marie-José Email : mariejose.essi@fmsb-uy1.cm

Co-directeur : Dr MBEDE NGA MVONDO Rose Email : rose.mbede@yahoo.fr

**Enqueteur** : FONYUY Michael WOLANI, étudiant en 7eme année, Médecine Buccodentaire a la FMSB. Tel : 693086998 ; Email : fmichaelwolani@gmail.com

Vous avez la liberté de choisir ou non de participer à l'étude, sans aucun risque préjudiciable sur votre travail, vous êtes libres de quitter cette étude à tout moment lorsque vous l'aurez décidé. a mis en forme : Anglais (Royaume-Uni)

<u>Appendixes</u>	XXVIII a mis en forme : Police :(Par défaut) Times New Roma pt, Anglais (États-Unis)
Appendix 4 : Patient consent forms in English and in French	<b>a mis en forme :</b> Taquets de tabulation : Pas à 8 cm
INFORMED PATIENT CONSENT TMENT FORM (English version)	<b>a mis en forme :</b> Police :12 pt
	a mis en forme : Police :Non Gras
· · · · · · · · · · · · · · · · · · ·	a mis en forme : Centré
I the undersigned, Mr, Mrs freely and	
accept to take part in the study titled: "Assessment of patient satisfaction with oral healthcar	re offers at
the Biyem-Assi District Hospital", given that:	
• The researcher has informed and answered all my questions;	
• The researcher has precised that my participation if free, and that I am free to leave the st	tudy at any
moment;	
• The results of the study will be kept secret by the team implicated in the study;	
• I accept that the data collected during this study be used for the public thesis defensea public thesis defense public the public thesis defense public thesis defense public the public the public thesis defense public the pub	lic defense.
I will exercise my rights of opposition by this investigator	a mis en forme : Soulignement
Done on the / / 2022 at Yaoundé	a mis en forme : Non souligné
Researcher's signature, Partic	cipant's a mis en forme : Non souligné
signature	a mis en forme : Non souligné, Anglais (Royaume-Uni
	a mis en forme : Anglais (Royaume-Uni)
	a mis en forme : Normal, Sans numérotation ni puce a mis en forme : Non souligné
×	a mis en forme : Soulignement
FICHE DE CONSENTEMENT ECLAIRE	a mis en forme : Normal, Gauche, Sans numérotation
	puces a mis en forme : Police :(Par défaut) Times New Rom
	a mis en forme : Folice : (Fai delad) Times New Kom
· · · · · · · · · · · · · · · · · · ·	a mis en forme : Anglais (Royaume-Uni)
Je soussigné, Mr, Mme, Mlle	accepte a mis en forme : Centré
librement et volontairement de participer à l'étude médicale intitulée : « Evaluat	tion de la <b>a mis en forme :</b> Police :12 pt
satisfaction des patients a l'offre de soins a l'hopital regional de Yaounde»	
Étant entendu que :	
• L'investigateur m'a informé et a répondu à toutes mes questions ;	
• L'investigateur m'a précisé que ma participation est libre, et que mon droit de	retrait de
cette recherche peut s'effectuer à tout moment ;	
•	(c. 1
Les résultats obtenus seront gardés secrets par toute l'équipe impliquée dans cette	
J'accepte que les données enregistrées à l'occasion de cette étude puissent fai	ire l'objet
d'une thèse soutenue publiquement. Je pourrai exercer mon droit de rectif	ication et
d'opposition auprès de ce même investigateur.	
Fais-le / 2021 à Yaounde.	
Je vous remercie.	
Signature de l'investigateur Signature du partic	ipant
Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI	

<u>Appendixes</u>	XXIX	a mis en forme : Police :(Par défaut) Times New Romar pt, Anglais (États-Unis)
<b>Appendix 5</b> : Research q	uestionnaire	a mis en forme : Taquets de tabulation : Pas à 8 cm
Demande 1 : clairance éthique au comité institutionne		a mis en forme : Paragraphe de liste, Interligne : simple
	REPUBLIC OF CAMEROON	Taquets de tabulation : Pas à 13,53 cm
	*****	a mis en forme : Paragraphe de liste, Interligne : simple
Correct Strategeonice	THE UNIVERSITY OF YAOUNDE I	
	FACULTY OF MEDICINE AND	
	RIOMEDICAL SCIENCES	
	Yaoundé le 10 décembre 2021	
	A	
	Madame la Présidente du Comité	
	d'Ethique de la Faculté de	
Objet : Clairance éthique.	Médecine et	
Madame,	•	a mis en forme : Paragraphe de liste, Retrait : Première
J'ai l'honneur de venir auprès de votre haute bienveill		ligne : 0 cm, Interligne : simple
En effet, je suis étudiant en 7 <sup>ème</sup> -année d'études me Faculté de Médecine et des Sciences Biomédicales de		a mis en forme : Paragraphe de liste, Interligne : simpl
travail de thèse en vue d'obtention du grade de Do	cteur en Médecine générale intitulé : «	
Evaluation de la satisfaction a offre des soins a l'Hop	ital Centrale de Yaounde » dirigé par Pr	
ESSI Marie-José.		
Le but de ce travail est de connaitre les schémas thérap		
des soins buccodentaires et j'ai besoin de ce documen Je joins à ma demande	t pour pouvoir y mener.	
- une copie du résumé du protocole de recherche	<u>ــــــــــــــــــــــــــــــــــــ</u>	a mis en forme : Paragraphe de liste, Retrait : Gauche
-une photocopie de mon reçu de payement des droits u		cm, Interligne : simple
- Dans l'attente d'une suite favorable, veuillez agrée		
respect. Investigator:		
respect. Investigator: Date:	FONYUY Michael Wolani	
respect. Investigator:	FONYUY Michael Wolani	
respect. Investigator: Date: Research Questio	FONYUY Michael Wolani	
respect. Investigator: Date: Research Questio . Socio demographic data 1) Age:	FONYUY Michael Wolani	
Tespect. Investigator: Date: Research Questio Socio demographic data 1) Age: 1. □ 18- 28 years	FONYUY Michael Wolani	
respect.       Investigator:         Date:       Research Questio         .       Socio demographic data         1)       Age:         1.       □ 18- 28 years         2.       □ 29- 39 years	FONYUY Michael Wolani	
Tespect. Investigator: Date: Research Questio Socio demographic data 1) Age: 1. □ 18- 28 years	FONYUY Michael Wolani	
respect.       Investigator:         Date:       Research Questio         .       Socio demographic data         1) Age:       1. □ 18- 28 years         2. □ 29- 39 years       3. □ 40- 50 years	FONYUY Michael Wolani	
respect.         Investigator:           Date:            Research Questio           .         Socio demographic data           1) Age:            1.         □ 18- 28 years           2.         □ 29- 39 years           3.         □ 40- 50 years           4.         □ 51- 61 years           5.         □ More than 62 years           2) Sex:	FONYUY Michael Wolani	
respect.       Investigator:         Date:       Research Questio         Socio demographic data       1)         Age:       1         1       □ 18- 28 years         2       □ 29- 39 years         3       □ 40- 50 years         4       □ 51- 61 years         5       □ More than 62 years         2)       Sex:         1.       □ Male	FONYUY Michael Wolani	
Investigator:           Date:           Research Questio           Socio demographic data           1) Age:           1.         □ 18- 28 years           2.         □ 29- 39 years           3.         □ 40- 50 years           4.         □ 51- 61 years           5.         □ More than 62 years           2) Sex:         □           1.         □ Male           2.         □ Female	FONYUY Michael Wolani	
respect.       Investigator:         Date:       Research Questio         Socio demographic data       1)         Age:       1         1       □ 18- 28 years         2       □ 29- 39 years         3       □ 40- 50 years         4       □ 51- 61 years         5       □ More than 62 years         2)       Sex:         1.       □ Male	FONYUY Michael Wolani	
Investigator:           Date:           Research Questio           Socio demographic data           1) Age:           1.         □ 18- 28 years           2.         □ 29- 39 years           3.         □ 40- 50 years           4.         □ 51- 61 years           5.         □ More than 62 years           2) Sex:         □           1.         □ Male           2.         □ Female	FONYUY Michael Wolani	
Investigator:         Date:         Research Questio         Socio demographic data         1) Age:         1.       18-28 years         2.       29-39 years         3.       40-50 years         4.       51-61 years         5.       More than 62 years         2) Sex:       1.         1.       I Male         2.       Female         3)       Profession:	FONYUY Michael Wolani	

Ap	pendixes	XXX		a mis en forme : Police :(Par défaut) Times New Roman,
			$\mathbf{i}$	pt, Anglais (États-Unis)
4)	Marital status:			a mis en forme : Taquets de tabulation : Pas à 8 cm
,	1. □ Single			
	2.			
	3. Divorced			
	4. 🗆 Widowed			
5)	Level of education:			
	1.			
	2. $\Box$ Secondary			
	3. $\Box$ High school			
	4. □ Tertiary(university/college)			
6)	Cultural area:			
	1. Coast			
	2. $\Box$ Forest			
	3. 🗆 Sahel			
	4. 🗆 Savannah			
	5. Grassfieds			
II.	Accessibility Which transport means do you take from home to the hegaitel?			
1)	Which transport means do you take from home to the hospital? 1.			
	$2. \square Bike$			
	<ol> <li>□ Dike</li> <li>□ Personal vehicle</li> </ol>			
	4. $\Box$ On foot			
2)	How long does it take from your house to the hospital?			
2)	1. $\Box$ Less than 15 minutes			
	2. $\Box 16 - 30$ minutes			
	3. $\Box$ 31 – 46 minutes			
	4. $\Box 47 - 1$ hour			
	5. $\Box$ More than an hour			
3)	How would you rate consultation cost here?			
,	1. 🗆 Low			
	2. 🗆 Average			
	3. $\Box$ High			
	4. □ Too high			
	5. □I don't know			
4)	How would you evaluate treatment cost here?			
	1. □ Low			
	2. 🗆 Moderate			
	3. □ High			
	4. □ Too high			
	5. $\Box$   don't know			
5)	What is the cost of prescribed medication?			
	1. $\Box$ Low			
	2. □ Moderate			
	3. □ High			
	4. □ Too high			
Da	octorate thesis in Dental Medicine written by FONYUY Michael WOLANI			

	Appendixes XXXI.		<u>_</u>	mis en form	De L Delico	(Dar dófau	t) Timos No	Poman	1
I	<u>Appendixes</u> AAAI	$\overline{}$		, Anglais (Éta			it) Times Ne	ew Roman,	12
			а	mis en form	e : Taquet	s de tabula	ation : Pas à	à 8 cm	
	5. 🗆 I don't know								
	6) Do you treated differently from other patients?								
	1. $\Box$ Yes								
	2. 🗆 No								
	3. 🗆 I don't know								
	4. 🗆 I don't care								
	7) Do your believes influence the way you are treated?								
	1. 🗆 Yes								L
	2. 🗆 No								L
	3. 🗆 I don't know								L
	4. 🗆 I don't care								L
	8) In case of any disability, how are you treated?								L
	1. I am well treated								L
	2. $\Box$ I am poorly treated								L
	3. $\Box$ I am always poorly treated in general								L
	4. $\Box$ I don't know								L
	<ul><li>9) From a scale of 1 to 10, how would you rate your accessibility?</li></ul>								L
									L
II	I. Environment								L
	10) Is the reception identifiable?								L
	1. $\Box$ Yes								L
	2. 🗆 No								L
	11) Is the reception accessible to everyone during working hours?								L
	1. □ Yes								L
	2. 🗆 No								
	12) How do you rate the waiting room at the Biyemassi District Hospital?								L
	1. Comfortable								L
	2. 🗆 Uncomfortable								L
	13) What can you say about the tidiness of the environment?								L
	1. $\Box$ Not good								L
	2. Good								L
	3. 🗆 Very tidy								L
	4. □ I don't know								
	14) Is there enough distraction to keep you occupied while waiting for your appointment?								L
	1. 🗆 TV								L
	2. □ News papers								L
	3. 🗆 Toys								L
	4. 🗆 Games								L
	5. $\Box$ There are no distractions at all								L
	6. Other(s)								
	15) Is the environment convenient for you?								
	1. $\Box$ Yes								
	2. 🗆 No								
	16) If no, explain								
	1.								
	Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI								
									1

<u>Appendixes</u>	XXXII		a mis en forme : Police : (Par défaut) Times New Roma
		$\sim$	pt, Anglais (États-Unis)
2. $\Box$ No chairs		U	a mis en forme : Taquets de tabulation : Pas à 8 cm
3. $\Box$ Too noisy			
4. □ Not decorated			
5. □ Not ollets			
6. Other(s)			
17) How long is the waiting time?			
1. $\Box$ Less than 15 minutes			
2. $\Box$ 16-30 minutes			
3. $\Box$ 31minutes- 1hour			
4. $\Box$ 1-2 hours			
5. $\Box$ More than 2 hours			
18) If case of any data entry, what is the speed of data entry?			
1. $\Box$ Slow			
2. $\Box$ Average			
3. $\Box$ Fast			
4. $\Box$ I don't know			
19) From a scale of 1-10, How would you rate your environment?			
IV. Service quality			
20) Are services offered in line with my needs?			
1. □ Yes			
2. □ No			
3. □ I don't know			
21) Can you depend on the staff for solutions to my problems?			
1. □ Always			
2. 🗆 Often			
3. Sometimes			
4. $\Box$ Never			
5. □ I don't know			
22) Do the treatments received remedy my situation?			
1. □ Strongly agree			
2. 🗆 Agree			
3. 🗆 Undecided			
4. 🗆 Disagree			
5. □ Strongly agree			
23) Are services provided on time?			
1. □ Strongly agree			
2. $\Box$ Agree			
3. 🗆 Undecided			
4. 🗆 Disagree			
5. Strongly disagree			
24) Do you have any records?			
1. □ Yes			
2. □ No			
25) Are your records error free?			
Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI			

<ul> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Trongly agree</li> <li>7) Are you will informed about treatment procedures and outcomes</li> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly diagree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly diagree</li> <li>5. □ Strongly diagree</li> <li>5. □ Strongly diagree</li> <li>5. □ Strongly agree</li> <li>6. □ Strongly agree</li> <li>7. □ Agree</li> <li>7. □ Lagree</li> <li>7. □ Lagree</li> <li>7. □ Lagree</li> <li>7. □ Lagree&lt;</li></ul>	<u>Appendixes</u>	XXXIII	a mis en forme : Police :(Par défaut) Times New Ro pt, Anglais (États-Unis)
1.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         20) Time of service provision         1.       □ Strongly disagree         20) Time of service provision         1.       □ Strongly agree         3.       □ Long         4.       □ Too long         27) Are you well informed about treatment procedures and outcomes         1.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         5.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         5.       □ Strongly agree         20) These confidence in those who provide services         1.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         5.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         5.       □ Strongly agree         3.       □			
<ul> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly disagree</li> <li>20)Time of service provision</li> <li>1. □ Stongly agree</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>27)Are you well informed about treatment procedures and outcomes</li> <li>28)Is the staff willing to help when you have a problem?</li> <li>1. □ Strongly agree</li> <li>28)Is the staff willing to help when you have a problem?</li> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>30)Dre you feel stafe during my treatment</li> <li>1. □ Strongly disagree</li> <li>30)Dre you feel stafe during my treatment</li> <li>1. □ Strongly disagree</li> <li>30)Dre you feel stafe during my treatment</li> <li>1. □ Strongly disagree</li> <li>30)Dre you feel stafe during my treatment</li> <li>1. □ Strongly disagree</li> <li>31)The staff is courtcous</li> <li>1. □ Strongly disagree</li> <li>32) Are your questions clearly answered when you ask them?</li> <li>32) Are your questions clearly answered when you ask them?</li> <li>33. □ Undecided</li> </ul>	1. □ Strongly agree		
<ul> <li>4. □ Disagree</li> <li>Strongly disagree</li> <li>20 Time of service provision</li> <li>1. □ Short</li> <li>2. □ Average</li> <li>3. □ Long</li> <li>4. □ Too long</li> <li>27) Are you well informed about treatment procedures and outcomes</li> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly agree</li> <li>20 There you well informed about treatment procedures and outcomes</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>5. □ Strongly agree</li> <li>20 There you findence in those who provide services</li> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>4. □ Disagree</li> <li>5. □ Strongly agree</li> <li>5. □ Strongl</li></ul>	2. 🗆 Agree		
1       Shot         20       Time of service provision         1       Shot         2.       Average         3.       Long         4.       Too long         27) Are you well informed about treatment procedures and outcomes         2.       Agree         3.       Undecided         4.       Disagree         29) In the staff willing to help when you have a problem?         1.       Strongly agree         29.       Agree         3.       Undecided         4.       Disagree         29) In water onfidence in those who provide services         1.       Strongly disagree         30) Do you feel safe during my treatment         1.       Strongly agree         2.       Agree         3.       Undecided         4.       Disagree         5	3. Undecided		
26) Time of service provision         1       □ Short         2       □ Average         3       □ Long         4       □ Too long         27) Are you well informed about treatment procedures and outcomes         1       □ Strongly agree         2       □ Agree         3       □ Undecided         4       □ Disagree         5       □ Strongly agree         28) Is the staff willing to help when you have a problem?         1       □ Strongly agree         2       □ Agree         3       □ Undecided         4       □ Disagree         5       □ Strongly agree         29) I have confidence in those who provide services         1       □ Strongly agree         20) Doy to if ed side during my treatment         1       □ Strongly agree         3       □ Undecided         4       □ Disagree         30) Doy to if ed side during my treatment         1       □ Strongly agree         3       □ Undecided         4       □ Disagree         31) The staff is courteous         1       □ Strongly agree         32) Arce your questions clearly answered when you ask the	4. 🗆 Disagree		
26) Time of service provision         1       □ Short         2       □ Average         3.       □ Long         4.       □ Too long         27) Are you well informed about treatment procedures and outcomes         1.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         5.       □ Strongly agree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         2.       □ Agree         3.       □ Undecided         4.       □ Disagree         29) I have confidence in those who provide services         1.       □ Strongly agree         20) Doy to tell safe during my treatment         1.       □ Strongly agree         3.       □ Undecided         4.       □ Disagree         3.       □ Undecided         4.       □ Singree         3.       □ Undecided         4.       □ Singree         3.       □ Undecided         4.       □ Singree         3.       □ Undecided         4.       □ Singree <td>-</td> <td></td> <td></td>	-		
<ul> <li>2. □ Average</li> <li>3. □ Long</li> <li>4. □ Too long</li> <li>27) Are you well informed about treatment procedures and outcomes</li> <li>7) Are you well informed about treatment procedures and outcomes</li> <li>7) Are you well informed about treatment procedures and outcomes</li> <li>7) Are you well informed about treatment procedures and outcomes</li> <li>7) Are you well informed about treatment procedures and outcomes</li> <li>8) Undecided</li> <li>4. □ Disagree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>29) Have confidence in those who provide services</li> <li>1. □ Strongly agree</li> <li>29) Have confidence in those who provide services</li> <li>1. □ Strongly agree</li> <li>29) Have confidence in those who provide services</li> <li>1. □ Strongly agree</li> <li>2. □ Agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>3. □ Strongly agree</li> <li>3. □ Strongly agree</li> <li>3. □ Strongly agree</li> <li>3. □ Undecided</li> <li>4. □ Disagree</li> <li>4. □ Disagree</li> <li>4. □ Disagree</li> <li>4. □ Disagree</li> <li>4. □ Disagree<!--</td--><td></td><td></td><td></td></li></ul>			
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<ol> <li>Strongly agree</li> <li>Agree</li> <li>Undecided</li> <li>Disagree</li> <li>Strongly disagree</li> <li>Strongly agree</li> <li>Agree</li> <li>Undecided</li> <li>Disagree</li> <li>Undecided</li> <li>Disagree</li> <li>Strongly agree</li> <li>Strongly agree</li> <li>Strongly agree</li> <li>Strongly agree</li> <li>Strongly agree</li> <li>Magree</li> <li>Strongly agree</li> <li>Undecided</li> </ol>			
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<ol> <li>Agree</li> <li>□ Undecided</li> </ol>			
3. Undecided			
Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI	3. Undecided		
Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI			
	Doctorate thesis in Dental Medicine written by FONYUY Michael WOLANI		

I	<u>Appendixes</u> XXX	TT 7.	a mis en forme : Police :(Par défaut) Times New Rom	2
N.	Appendixes		pt, Anglais (États-Unis)	idi 1, 1.2
I		Ì	a mis en forme : Taquets de tabulation : Pas à 8 cm	
	4. 🗆 Disagree		· · · · · · · · · · · · · · · · · · ·	
	5. □ Strongly agree			- 11
	33) The staff is attentive to my needs			- 11
	1. □ Strongly agree			
	2. □ Agree			
	3. □ Undecided			
	4. □ Disagree			
	5. □ Strongly Disagree			
	34) Do you feel cared for?			
	1. □ Strongly agree			
	2. $\Box$ Agree			
	3. 🗆 Undecided			
	4. 🗆 Disagree			
1	5. □ Strongly disagree			
	35) Working hours are convenient			
	1. □ Strongly agree			
	2. $\Box$ Agree			
	3. 🗆 Undecided			
	4. Disagree			
	5.			
	36) On a scale from 1 to 10, how would you rate your satisfaction with respect to care quality	ity		
	at the Biyemassi District Hospital?	-		
	37) What are your recommendations?			
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