



Research Plan 2020-2025

Faculty of Oral and Dental Medicine

Egyptian Russian University

الخطة البحثية الخمسية لكلية طب الفم و الأسنان
الجامعة المصرية الروسية

للأعوام

(2020-2025)



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مقدمة عامة:

تأسست الجامعة المصرية الروسية بالقرار الجمهورى رقم 256 لعام 2006 وتقع فى مدينة بدر علي طريق القاهرة-السويس و تم الموافقة على إنشاء كلية طب الأسنان خلال عام 2013 و بدأت الدراسة فى خريف 2014. تعد الجامعة المصرية الروسية هى الأولى فى مصر و الشرق الأوسط كأول جامعة مصرية قائمة على التعاون و الشراكة مع جامعات روسيا، وهى عضو فى إتحاد الجامعات العربية. أقيمت الجامعة على مساحة سبعة و ثلاثين فدان و تشمل مجموعة من الكليات العملية و النظرية مثل/ كلية الصيدلة, طب الفم و الأسنان, الهندسة, كلية الإدارة و التكنولوجيا المهنية و الحاسبات و جارى إنشاء كليات الطب و العلاج الطبيعي.

تحتوى كلية طب الفم و الأسنان علي الأقسام الآتية:

- **قسم بيولوجيا و باثولوجيا الفم و الأسنان؛ و يشمل التخصصات التالية :**
 1. التشريح الوصفي للأسنان.
 2. بيولوجيا الفم و الأسنان.
 3. باثولوجيا الفم و الأسنان.
- **قسم الإستعاضة الصناعية للأسنان؛ ويشمل التخصصات التالية:**
 1. التركيبات المتحركة للأسنان (الكاملة و الجزئية).
 2. خواص المواد الحيوية.
 3. التركيبات الخاصة بجراحة الوجة و الفكين.
- **قسم طب الأسنان التحفظي؛ و يشمل التخصصات التالية:**
 1. العلاج التحفظي للأسنان.
 2. علاج الجذور.
 3. التركيبات الثابتة (التيجان و الجسور).
- **قسم جراحة الفم و الوجه و الفكين؛ ويشمل التخصصات التالية:**
 1. جراحة الفم و الوجه و الفكين.
 2. التخدير الموضعي و التخدير العام.
 3. غرس الأسنان.
- **قسم التقويم و طب أسنان الأطفال؛ و يشمل التخصصات التالية:**
 1. تقويم الأسنان.
 2. طب أسنان الأطفال.
 3. الصحة العامة للفم و الأسنان.
- **قسم طب الفم و أمراض اللثة و التشخيص و أشعة الفم؛ و يشمل التخصصات التالية:**
 1. طب الفم.
 2. أمراض اللثة.
 3. التشخيص.
 4. أشعة الفم.
- **قسم العلوم الأساسية و الطبية؛ و يشمل التخصصات التالية:**
 1. الهيستولوجيا العامة.
 2. الفسيولوجي.
 3. الباثولوجيا العامة.
 4. الكيمياء الحيوية.
 5. تشريح عام.
 6. فيزياء.
 7. العلوم الحيوية.

تشكيل لجنة الاشراف على وضع الخطة البحثية:

- أ. د خالد توفيق
- أ. د هشام السيد السيد الهوارى
- أ. د أميرة محمد فريد حسين
- أ. د أسماء أحمد جاد الله
- أ. د عاطف الشحات عطية العزب
- أ. د هشام عفيفي
- أ. د سامية العزب
- أ. د خالد الحاييس
- أ. د ايناس فتح الباب عبد الحليم
- د. خالد فاروق عباس
- عميد الكلية
- وكيل الكلية لشئون التعليم و الطلاب
- رئيس قسم طب الأسنان التحفظى
- رئيس قسم الاستعاضة الصناعية
- رئيس قسم طب الفم و أمراض اللثة و التشخيص و أشعة الفم
- رئيس قسم التقويم و طب الأطفال
- رئيس قسم بيولوجيا و باثولوجيا الفم
- رئيس قسم جراحة الفم و الوجه و الفكين
- مدير وحدة ضمان الجودة
- منسق معيار البحث العلمى و الأنشطة العلمية

خطوات اعداد الخطة البحثية:

أولاً- تشكيل لجنة الإشراف على وضع الخطة البحثية:

تشكل اللجنة من عميد الكلية، وكلاء الكلية، عضو من كل قسم و مدير وحدة الجودة و تعتمد من مجلس الكلية.

ثانياً- مرجعيات الخطة البحثية:

1. مرجعيات الخطة البحثية مستمدة من التوجهات القومية و الإستراتيجية للعلوم و التكنولوجيا و الابتكار (رؤية مصر 2030) محور الصحة المسار الثانى.
2. احتياجات المجتمع الصحيه التي يمكن تلبيتها من خلال خدمات طب الفم والأسنان.
3. المحاور البحثية للجامعة.
4. الاتجاهات البحثية الرئيسية و أهدافها (Faculty Research domains) من خلال المشاكل الصحية و المجالات التي تستحق إعطائها الأولوية فى هذه المرحلة على المدى القصير (لمدة خمس سنوات).
5. مقترح الخطط البحثية للأقسام و إعتماها فى مجلس القسم و مجلس الكلية.
6. الخطط البحثية للكليات المناظرة.
7. إعداد مقترح الخطة البحثية للكلية من قبل اللجنة المشكلة و عرضها على مجالس الأقسام و مجلس الكلية لإعتماها.
8. إعداد خطة تنفيذية للخطة البحثية من كل قسم موضح بها الفترة الزمنية و مسئولية التنفيذ و المتابعة.

ثالثاً- إعداد الخطة البحثية وإعلانها.

رابعاً - المتابعة:

متابعة تنفيذ محاور الخطة البحثية الموضوعة من خلال لجنة مشكلة عن طريق آلية متابعة تقدم تقريراً سنوياً .

قائمة احتياجات المجتمع لخدمات طب الفم والأسنان:

1. **الوقاية والتثقيف الصحي:** توعية الناس بأهمية العناية بصحة الفم والأسنان، وتعليمهم الطرق الصحيحة لتفريش الأسنان واستخدام خيط الأسنان والغسول الفموي.
2. **الفحص الدوري:** توفير فحوصات دورية للكشف عن الأمراض والمشاكل في الفم والأسنان مثل التسوس والتهاب اللثة وسوء تنظيم الأسنان.
3. **علاج التسوس:** تقديم خدمات علاجية لعلاج التسوس مثل حشو الأسنان وعلاج الجذور .
4. **علاج اللثة وجراحة الفم والوجه:** علاج الالتهابات في اللثة وعمليات جراحية مثل زراعة العظم وعمليات تجميلية للوجه والفكين.
5. **طب الأسنان التجميلي:** تقديم خدمات لتحسين مظهر الأسنان مثل تبييض الأسنان وتصحيح شكل الأسنان.
6. **تقويم الأسنان:** تقديم خدمات لتصحيح ترتيب الأسنان والفكين باستخدام التقويم السني.
7. **تركيب الأسنان الاصطناعية:** تقديم حلول بديلة للأسنان المفقودة مثل الجسور والزرعات والأسنان الاصطناعية.
8. **رعاية الأسنان للأطفال:** تقديم خدمات خاصة لرعاية صحة أسنان الأطفال بما في ذلك الوقاية من التسوس وتقويم الأسنان.
9. **توفير خدمات طب الأسنان الطارئة:** تقديم العلاج الطارئ للحالات مثل الألم الشديد، والكسور، والالتهابات.
10. **رعاية صحة الفم والأسنان للمسنين:** توفير خدمات تناسب احتياجات كبار السن مثل علاج الصلابة، وتصميم الأسنان الاصطناعية المناسبة.

هذه بعض الأمثلة العامة لاحتياجات المجتمع التي يمكن تلبيتها من خلال خدمات طب الفم والأسنان. يمكن توسيع هذه القائمة بناءً على الاحتياجات الخاصة بالمجتمع والتطورات الطبية والاجتماعية

الرؤية البحثية:

أن تصل كلية طب الفم و الأسنان إلي الريادة محلياً و إقليمياً و عالمياً في مختلف مجالات البحث العلمي في فروع طب الأسنان لإثراء و النهوض بالبحث العلمي في مصر و أن تصبح مركزاً مستداماً للإبتكار و البحوث.

الرسالة البحثية:

تلتزم كلية طب الفم و الأسنان بالجامعة المصرية الروسية بتنمية مهارات البحث العلمي لدى أعضاء هيئة التدريس و الهيئة المعاونة بالجامعة. تقدم الدعم الفني و المادى لذلك و تسهم الجامعة بالتعاون مع الجامعات الأخرى في إطار من الإلتزام بتطبيق معايير الجودة في البحث العلمي و أخلاقياته تلبيةً لخدمة المجتمع .

التحليل الرباعي البيئي للخطة البحثية بالكلية:

نقاط القوة:

- توجد توجهات بحثية للكلية توثق في مجلس الكلية
- تتوافق التوجهات البحثية للكلية مع المحاور البحثية للجامعة و ترتبط بالخطة الاستراتيجية القومية للتعليم والبحث العلمي
- توجد لجنة الاخلاقيات للبحث العلمي معتمدة من مجلس الكلية 2019

- يوجد انتاج علمي للكلية متمثل بالنشر المحلي و الدولي و متناسب مع أعضاء هيئة التدريس بالكلية.
- تدعم الجامعة الإنتاج العلمي والبحوث عن طريق منح مكافآت مالية وشهادات تقدير للباحثين.
- تتيح الجامعة للباحثين سبل البحث والمعرفة عن طريق اشتراكها في بنك المعرفة المصري
- تقوم المؤسسة بعمل يوم علمي في بعض الأقسام
- يوجد مراجعون علميون في المجالات البحثية و عضويات من أعضاء هيئة التدريس في هيئات تحكيم الأبحاث في بعض التخصصات.
- يوجد أبحاث علمية مشتركة بين التخصصات العلمية المختلفة.

نقاط الضعف:

- لا توجد خطة بحثية متكاملة لها منهجية واضحة بالكلية.
- محدودية الإجراءات المتخذة لنشر الوعي بأخلاقيات البحث العلمي بالكلية.
- تنحصر مصادر تمويل البحث العلمي بالكلية حتى الآن في موازنة الجامعة فقط
- لا توجد مشروعات بحثية ممولة من مؤسسات محلية وإقليمية ودولية
- الدورات التدريبية المتخصصة في البحث العلمي قليلة
- لا يوجد برنامج للدراسات العليا
- لا تتيح المؤسسة وسائل فعالة لتشجيع الأنشطة والمؤتمرات العلمية
- لا توجد قواعد بيانات عن البحوث والأنشطة العلمية مكتملة.
- لا يوجد دورية علمية محكمة

الفرص المتاحة:

- توجد فرص للتعاون بين الكلية و المراكز البحثية المختلفة تهدف الي ارتقاء و دعم الشراكة في البحث العلمي و تبادل الخبرات و الامكانيات.
- توافر الانشطة العلمية كالمؤتمرات و الورش العلمية و الايام العلمية في مختلف المؤسسات البحثية و نقابة أطباء الأسنان.
- توافر فرص الاشراف المشترك للرسائل العلمية بين الكليات و أيضا لجان التحكيم علي رسائل الماجستير و الدكتوراة بين الكليات.
- توجد فرص للاستفادة من المنح المقدمة من الجامعات و المراكز البحثية الداخلية و الخارجية.
- توفروها من منح المشروعات البحثية.

التحديات:

- المنافسة القوية بين الجامعات الخاصة و الاهلية.
- القواعد و القوانين المقيدة لفتح برامج الدراسات العليا في الجامعات.
- الارتفاع في تكاليف خامات و مواد و أجهزة طب الأسنان و ذلك لارتباطها بالعملة الصعبة نظرا لاستردادها بالكامل من الخارج.

الأهداف الإستراتيجية:

1. رفع كفاءة الأبحاث العلمية.
2. التوسع في الأنشطة العلمية في الكلية.
3. إنشاء وتطوير لجان و وحدات دعم البحث العلمي و التعليم المستمر بالهيكل التنظيمي للكلية.
4. دعم ورفع قدرات اعضاء هيئة التدريس و الهيئة المعاونة في البحث العلمي.
5. تطوير البنية التحتية للبحث العلمي للكلية.
6. انشاء قواعد بيانات للابحاث و الرسائل العلمية المنشورة.
7. الربط العلميين الاقسام الداخلية بالكلية و بين الكلية و الكليات الأخرى عبر عمل برامج بحثية متكاملة تهدف إلى إنتاج مخرجات تخدم الصحة العام .



Key for Coding (Department Codes)

1. Removable Prosthodontics.	OMP
2. Orthodontics.	ORD
3. Operative Dentistry.	OPR
4. Oral and Maxillofacial Surgery.	OMFS
5. Oral Pathology.	OP
6. Endodontics.	END
7. Oral Biology.	OBI
8. Fixed prosthodontics.	FPR
9. Dental Biomaterials.	DBM
10. Pedodontics.	PED
11. Oral Medicine, Periodontology, Diagnosis and Oral Radiology.	OMPDR

University Research Domains:

- I. The development of new compounds
- II. The usage of biotechnology in immunity enhancement and microbial resistance.
- III. The microbial diseases.
- IV. Tissue engineering and organs transplantation.
- V. Prosthetic restoration of missing teeth.
- VI. Maxillofacial neoplasms.
- VII. The usage of artificial intelligence in diagnosis of diseases related to the dental field.
- VIII. Stem cells and development of regenerative therapies for tissues and teeth.
- IX. General and microsurgeries.
- X. Recent technologies in diagnosis and treatment.
- XI. Recent technologies in oral and dental medicine.
- XII. Manufacturing of nano-sized materials.
- XIII. Applications of nanotechnology.

Faculty Research Plan Domains (2020-2025)

1. Epidemiology and prevention.
2. Management of children and adults with special needs.
3. Reconstruction and rehabilitation.
4. Tissue engineering.
5. Diagnosis, prognosis and treatment outcome.
6. Esthetics.
7. Conservative modalities.
8. Advanced technology and innovation.
9. Mechanics, biomechanics and occlusion.
10. Digital Dentistry.
11. Host Modulation and Remedies
12. Biocompatibility, Toxicity, and Drug interaction
13. Nanotechnology

Domain (1) Epidemiology and Prevention.

It is the study of the distribution and determinants of health-related states or events in the Egyptian population, and the application of this study to the control of health problems. Epidemiology expands the boundaries of quantifying a disease to spread across all health fields, particularly in identifying the causes, quantifying the burden of a disease, the therapeutic effectiveness and monitoring activities.

1. (OPR- D1-1) Assessment of using different methods on high caries risk patients.
2. (OPR- D1-2) Preventive measures of tooth pastes and mouth washes influencing high caries risk patients.
3. (OPR- D1-3) Oral manifestations of Covid 19-patients in Egyptian population.
4. (END-D1-1) Evaluation of root canal morphology of premolars in Egyptian population.
5. (OBI-D1-1) Comparing teeth microanatomy, measurements and variations related to age and sex in different regions of Egyptian society.
6. (OBI-D1-2) Histological assessment of PL. of rats in comparison to that of humans at different ages.
7. (OBI-D1-3) Morphology of occlusal surface of maxillary molars in Egyptian population.
8. (OBI-D1-4) Morphology of root & root canals of permanent mandibular anterior teeth in Egyptian population.
9. (OBI-D1-5) Morphology of molars of Egyptian population.
10. (OP-D1-1) Prevalence of meningioma (intra-oral rare condition).
11. (OP-D1-2) Prevalence of intra-oral cancer in Egyptian population.
12. (OP-D1-3) Nano technology (chemo-thermal) therapy of oral squamous cell carcinoma.
13. (OP-D1-4) Effect of corona virus patients with severe respiratory syndrome, Guidelines.
14. (OP-D1-5) Post-COVID-19 related osteonecrosis of the jaw (PC-RONJ)
15. (OP-D1-6) Correlation between H. Pylori infection and COVID-19 among Egyptian population.
16. (PED-D1-1) Eruption sequence of primary & permanent teeth.
17. (PED-D1-2) Prevention of dental caries and other common oral dental diseases in children.
18. (PED-D1-3) Detecting risk factors for dental caries and other dental diseases in children.
19. (PED-D1-4) Caries & periodontal disease assessment in Egyptian population.
20. (PED-D1-5) Assessment of Salivary Bacterial Level and Dental Caries Experience in Children with Black Stained Teeth.
21. (PED-D1-6) Evaluation of Infection Control Knowledge Attitude and Practices.
22. (PED-D1-7) Prevalence of Periodontal Disease in Children with Diabetes Mellitus Type 1.
23. (OMPDR-D1-1) The frequency of periodontitis in end stage renal disease on hemodialysis in a sample of Egyptian population.



24. (OMPDR-D1-2) COVID-19 Pandemic and Subsequent Demand for E-Learning: Insights of Students' Perspective.
25. (OMPDR-D1-3) Orofacial pigmentation in Hemodialysis patients.
26. (OMPDR-D1-4) Prevalence of Oral lesions and salivary changes among renal patients undergoing hemodialysis.
27. (OMPDR-D1-5) Prevalence of periodontitis among adult Egyptians.
28. (OMPDR-D1-6) Oral mucormycosis in post-COVID-19 patients.
29. (OMPDR-D1-7) Possibility of age and gender determination radiographically: comparison between CBCT and panoramic view of maxillary sinuses .
30. (OMPDR-D1-8) The Prevalence of Soft Tissue Calcifications in the Head and Neck Region Using CBCT.
31. (OMPDR-D1-9) Cone beam computed tomography for evaluation of lingual canal.
32. (OMFS-D1-1) Effect of COVID-19 on the prevalence and severity of TMD symptoms.

Domain (2) Management of Children and Adults with Special needs.

Children with special health care needs is the current descriptor used to characterize children who have or are at increased risk for a chronic physical, developmental, behavioral, or emotional condition and who also require health and related services of a type or amount beyond that required by children generally. Considerable attention has been devoted to this population again in recent years for alleviation of their pain and to decrease their agony.

- (PED- D2-1) Treating dental caries and other common oral dental diseases in children.
- (PED- D2-2) Evaluating new techniques in management of dental caries and other dental diseases in children.
- (PED- D2-3) Root canal irrigants and medications effect on non-vital primary teeth.

Domain (3) Reconstruction and Rehabilitation.

Rehabilitation is an art and science, to be more exact a creativity which restores the functional and esthetic requirements of the patients. Restoration can be done with different treatment options including inlays, onlays, crowns, bridges, implant supported prostheses and removable dentures. There are variety of conditions which require rehabilitation such as attrition, abrasion, mutilated occlusion, loss of periodontal support, and migration of teeth.

- (OMP-D3-1) Evaluation of rapid prototyping technique of upper complete dentures.
- (OMP-D3-2) Adaptation evaluation of dentures using different impression techniques.
- (OMP-D3-3) Effect of implant diameter on the primary stability of implant retained mandibular over denture.
- (OMP-D3-4) Clinical & radiographic evaluation of bar locator attachments for maxillary implant overdentures.
- (OMP-D3-5) Denture base deformation with different attachments used to stabilize implant overdentures.

- (OMFS-D3-1) Evaluation of different types of membranes on alveolar cleft repair.
- (OMFS-D3-2) Evaluation of specific implants on cranioplasty of patients.
- (OMFS-D3-3) Evaluation of A single puncture versus a double puncture arthrocentesis technique in the treatment of anterior disc displacement without reduction.
- (OMFS-D3-4) Prosthetic and biological complications of implant-retained fixed versus removable telescopic overdentures.
- (OMFS-D3-5) Comparative study of maxillary denture-base retention between CAD/CAM (3D printed) and conventional fabrication techniques.

- (OMPDR-D3-1) Evaluation of free gingival connective tissue graft wall technique in intra-bony defects.
- (OMPDR-D3-2) Evaluation of bone resorption after immediate post extraction implant placement.
- (OMPDR-D3-3) Management of labial bone dehiscence with different methods and materials.
- (OMPDR-D3-4) Comparative Evaluation of Coronally Advanced Flap Using Platelet-Rich Fibrin Membrane and Fresh Amniotic Membrane in Gingival Recession.
- (OMPDR-D3-5) Efficacy of ankaferd blood stopper on healing after osseous grafting in the treatment of periodontal intrabony defects.
- (OMPDR-D3-6) Comparison between PRP vs iPRF as an adjunct therapy in Infra-bony Pocket treatment.
- (OMPDR-D3-7) Effect of Different crestal Sinus Lift Techniques for Implant Placement in the Posterior Maxilla of Deficient Height.
- (OMPDR-D3-8) Evaluation of changes in esthetics and soft tissues following immediate implant.
- (FPR-D3-1) Evaluation of marginal adaptation and internal fit of provisional bridges.

Domain (4) Tissue Engineering.

Tissue loss due to trauma, disease or congenital abnormalities is a major health care problem worldwide. Reconstruction of the craniofacial area to its aesthetic and functional level is therefore a desire of affected patients. There has been a clear and distinct hypothetical shift in regenerative medicine from using medical devices and whole tissue grafts, to a more explicit approach that utilizes specific bioactive, biodegradable synthetic or natural scaffolds combined with cells and/or biological molecules, to create a functional replacement tissue in a diseased or damaged site.

- (OMPDR-D4-1) Methods of enhancement of peri-implant mucosa.
- (OMPDR-D4-2) The use of different scaffolds in the treatment of alveolar ridge defects.
- (OMPDR-D4-3) Measuring the effect of gingival fibroblasts in the treatment of intrabony defects.

- (OPR-D4-1) The use of stem cell therapy on the formation of reparative dentin.

- (OPR-D4-2) Reparative dentin formation following stem cell therapy and MTA in direct pulp capping.
- (OPR-D4-3) Nanotechnology in tooth tissue regenerative therapy.
- (OPR-D4-4) Immuno-histological study of the effect of bone marrow-stem cells application on degenerative salivary gland diseases.
- (OPR-D4-5) Applications of stem cells with different scaffolds in oral tissues regeneration.
- (DBM-D4-1) Bone graft (scaffold) from polycaprolactone / gelatin & bioactive glass for bone tissue engineering.
- (DBM-D4-2) Tissue engineering and regeneration, materials and techniques.
- (END- D4-1) Post-operative pain measurement after non-surgical treatment & regenerative approaches.
- (END- D4-2) The use of different regenerative approaches in regeneration of non-vital pulps.
- (END- D4-3) Management of immature roots, methods & materials.
- (END- D4-4) Single visit photo-activated disinfection in regenerative endodontics.
- (OBI-D4-1) Bone tissue regeneration after using regenerative methods, materials and techniques of stem cells.
- (OMPDR-D4-1) Combination between alendronate gel & beta tri-calcium phosphate in treatment of periodontal intrabony defect.
- (OMPDR-D4-2) Regenerative potential of cultured gingival fibroblasts in treatment of periodontal intrabony defects.
- (OMPDR-D4-3) Drug-Loaded Chitosan Scaffolds for Periodontal Tissue Regeneration.
- (OMPDR-D4-4) Baghdadite Calcium Silicate in Regenerative Dentistry and Medicine.
- (OMPDR-D4-5) Xenogeneic Acellular Dermal Matrix versus Connective Tissue Graft in Conjunction with Tunneling Technique in Treatment of Gingival Recession.
- (OMPDR-D4-6) Locally Applied Repositioned Hormones for Bone and Periodontal Tissue Engineering.

Domain (5) Diagnosis, Prognosis and Treatment Outcome.

Treatment planning in dentistry serves to address a patient's chief complaint and reestablish the patient's oral health. A treatment plan should be based on an accurate diagnosis and evaluation of the prognosis. Prognosis is determined by comprehensive clinical knowledge, experience, and patient-specific factors. Moreover, in complex cases, treatment planning is predicated on multidisciplinary analysis and requires the evaluation of not only the individual tooth, but also the entire oral structure, which involves the plane of occlusion, the vertical dimension of occlusion, and the arch form.

- (OP-D5-1) Factors affecting the behavior of odontogenic cysts.
- (OP-D5-2) Immuno-histochemical study of high expression of KIF23 & loss of C-CBL in gastric cancer patients.
- (OP-D5-3) Mucormycosis associated with Covid-19 & mortality rates, Global analysis.
- (OP-D5-4) Prognostic roles of ZNF 703 & SMAD4 in patients with thyroid cancer & associated with nodal metastasis.
- (OP-D5-5) Immuno-histochemical analysis of PCNA & FAK expression in odontogenic lesions.
- (OP-D5-6) Histological evaluation of Denosumab treatment on healing of calvarial bone defect.

- (END-D5-1) Apical extrusion of debris & their effect on the outcome of KCT.
- (END-D5-2) Periapical healing after different regenerative approaches.
- (END-D5-3) Methods of treatment of internal root resorption & techniques.
- (END-D5-4) Evaluation of perforation repair using different materials and techniques at furcation area.

- (FPR-D5-1) Clinical evaluation of ceramic crowns in terms of color stability, matching, and patient satisfaction.
- (FPR-D5-2) Clinical evaluation of ceramic crowns in terms of color stability, matching and patient satisfaction.

- (OBI-D5-1) The rule of Angiogenesis & mast cells in prognostic behavior of odontogenic cysts.

- (ORD-D5-1) Treatment outcomes of graduate clinical program.

- (OMPDR-D5-1) Evaluation of the non-incised papilla surgical approach with and without allograft in treatment of intraosseous lesions.

Domain (6) Esthetics.

One of the main goals of dental treatment is to mimic teeth and design smiles in a most natural and aesthetic manner, based on the individual and specific needs of the patient. Esthetic dentistry is not a special discipline or area of dentistry by itself, but with functional and biological considerations, it represents one of the goals of dental treatment interventions, spanning all specialty areas, from preventive and restorative dentistry to prosthodontics, orthodontics, periodontics, as well as oral and maxillofacial surgery.

- (OMFS-D6-1) Socket shield technique evaluation with immediate implant placement.
- (FPR -D6-1) Esthetic evaluation of rebounded laminates.
- (FPR -D6-2) Effect of strong media on the esthetic effect of CAD/CAM materials.
- (FPR -D6-3) Evaluation of different scanning techniques of occlusal veneers.
- (FPR -D6-4) Evaluation of back ground color and thickness of different zirconia crowns.
- (FPR -D6-5) Esthetic evaluation of rebounded laminates.
- (FPR -D6-6) Evaluation of back ground color and thickness of different zirconia crowns.
- (OMPDR-D6-1) Comparison between coronally advanced flap technique and modified tunneling technique utilizing perforated acellular dermal matrix in treatment of multiple gingival recessions.
- (OMPDR-D6-2) Evaluation of lip repositioning for the treatment of excess gingival display with and without pretreatment with Botox.
- (OMPDR-D6-3) Management of gingival black triangles by using injectable hyaluronic acid and injectable platelet rich fibrin.
- (OMPDR-D6-4) Evaluation of Micro needling with vitamin C versus injectable Vitamin C for depigmentation in physiological gingival melanin hyperpigmentation.
- (OPR-D6-1) Color change and degree of solubility of GI containing following chlorohexidine cements.
- (OPR-D6-2) Treatment of white spots in enamel.
- (OPR-D6-3) Clinical performance of direct anterior composites using esthetic dual shade polychromatic natural layering technique.
- (OPR-D6-4) The effect of silver diamide fluoride on physical and mechanical properties of resin composite restoration.

Domain (7) Conservative Modalities.

Minimally invasive dentistry is now considered to meet the standard care among public health and to explore factors associated with the use of different techniques in dentistry. Preservation of a healthy tooth structure of each patient should be the primary goal for a dentist according to the “Beneficence” code of ethics.

1. (FPR-D7-1) Repair evaluation of zirconia by composite resin.
1. (OMFS-D7-1) Evaluation of socket shield technique in implant placement in aesthetic zones.
2. (OPR-D7-1) Methods of treatment of hypersensitivity on high caries risk patients. Clinical evaluation of glass ionomer hybrid technology in high caries risk patients.
3. (OPR-D7-2) Clinical performance of short fiber reinforced resin composite restoration.
4. (OPR-D7-3) Efficacy of varnishes as desensitizing agents.
5. (OPR-D7-4) Surface treatment protocols in repair of aged composite.
6. (OPR-D7-5) Biomimetic remineralization of demineralized enamel with different materials.
7. (OPR-D7-6) Clinical evaluation of bioactive restorative material vs resin modified GI in cervical restorations.
8. (OPR-D7-7) Methods of enhancement pits & fissure sealants on enamel remineralization.
9. (OPR-D7-8) Marginal integrity of composite restoration with gold & silver nanoparticles.
10. (OPR-D7-9) Remineralization of different materials for demineralized enamel in acidic challenges.
11. (OPR-D7-10) Evaluation of tooth paste containing charcoal & sea salt lemon on stain removal & surface roughness.
12. (OPR-D7-11) Effect of materials on bond strength durability of Glass ionomer restoration.
13. (OPR-D7-12) Effect of Canal simulation design on fracture resistance and retention of core materials.
14. (OPR-D7-13) The effect of different scanning systems on marginal and internal adaptation of indirect restorations.
15. (DBM-D7-1) Management of white spots of enamel using resin infiltration.
16. (OMPDR-D7-1) Clinical and microbiological evaluation of antimicrobial photodynamic therapy as an adjunctive nonsurgical modality in patients with periodontitis.

Domain (8) Advanced Technology and Innovation.

Dental technology has come a long way in the past few years, and today's dentist has a number of innovative tools at their disposal. From digital x-rays to dental lasers, these new technologies are not only more accurate and efficient, but they're also more comfortable for the patient.

- (OPR-D8-1) The effect of adding short fiber composite resin onlays versus indirect nanohybrid resin composite onlay restorations in complex proximal cavities.
- (OPR-D8-2) Impact of matrix systems on proximal contact tightness and surface geometry in class II direct composite.
- (END-D8-1) Evaluation of retrieval methods of separated instruments.
- (END-D8-2) Measuring the mechanical properties of different NiTi rotary files.
- (FPR-D8-1) The effect of milled Bio HPP polyether and ether ketone (PEEK) on zirconia-based single crowns.
- (FPR-D8-2) The effect of laser on debonding of ceramic restorations.
- (FPR-D8-3) Clinical evaluation of crowns retained by fiber composite posts versus endocrowns in anterior teeth.
- (FPR-D8-4) Fitness evaluation of CAD/CAM endocrowns with different materials and designs.
- (FPR-D8-5) Measuring the mechanical properties of restorations with different designs in root canal treated teeth.
- (FPR-D8-6) The effect of laser on debonding of ceramic restoration.
- (FPR-D8-7) Fitness evaluation of CAD CAM endo crowns with different materials & designs.
- (FPR-D8-8) Repair evaluation of zirconia by composite resin.
- (FPR-D8-9) Measuring the mechanical properties of restorations with different designs in root canal treated teeth.
- (DBM-D8-1) Reviewing of scanning electron microscopy.
- (DBM-D8-2) Effect of incorporation of Nanographine on some properties of tricalcium silicate cement.
- (OMPDR-D8-1) Radiographic correlation in bilateral impacted lower third molars.
- (OMPDR-D8-2) Linear measurements of CBCT superimposition.
- (OMPDR-D8-3) Agreement between Panoramic Radiography and CBCT in Interpretation and Diagnosis of Jaw Lesions.
- (OMPDR-D8-4) The anatomical location of the mental foramen and the prevalence of the anterior loop in the Egyptian population.
- (OMPDR-D8-5) Guided Creeping Technique (GCT) as a Novel Minimally Invasive Approach in Treating Limited Gingival Recession.

Domain (9) Mechanics, Biomechanics and Occlusion.

Biomechanics is a branch of bioengineering, which is the application of engineering principles to biological systems. Orofacial biomechanics constitutes the determination of the mechanical stresses that the orofacial complexes are subjected to under both physiologic and pathologic conditions, response of the various oral tissues and restorative materials to the mechanical stress and modification of mechanical stresses applied to the oral tissues by restorative procedure and appliance.

- (OPR-D9-1) Measuring the effect of beverages and brushing techniques on the mechanical properties of composite restorations.
- (OPR-D9-2) Clinical evaluation of different restorative materials.
- (OPR-D9-3) Mechanical testing of Cention, Bulkfill composite, and GI cement.
- (OPR-D9-4) Dentin sealing under simulated pulp pressure of indirect resin composite restorations & dentin permeability.
- (OPR-D9-5) Mechanical testing of bond strength & microhardness of photopolymerized luting composites.

- (OMP-D9-1) Effect of different designs of implant telescopic crowns supporting overdentures.

- (FPR-D9-1) Evaluation of different impression materials.
- (FPR-D9-2) Mechanical evaluation of posterior supported crowns.
- (FPR-D9-3) Effect of different materials and techniques on esthetic zones.
- (FPR-D9-4) Evaluation of mechanical properties of a new gradient zirconia.

- (DBM-D9-1) Evaluation of two resin composites having different matrix compositions.
- (DBM-D9-2) Polymerization efficiency of a bulk-fill composite matrix.
- (DBM-D9-3) Mechanical testing of dual polymerized resin core.
- (DBM-D9-4) Effect of root canal irrigants on microhardness of dentin.
- (DBM-D9-5) Bond strength evaluation with different materials & modes of polymerization.
- (DBM-D9-6) Optical analysis of dental materials.
- (DBM-D9-7) Atomic structure & bonding.
- (DBM-D9-8) Enhancing mechanical properties of Biodentin.
- (DBM-D9-9) Evaluation of ultra-translucent zirconia.
- (DBM-D9-10) Mechanical testing of NiTi ortho arch wires following intra-oral use.
- (DBM-D9-11) Effect of natural dentin crosslinking on the durability of composite resin bonding with demineralized dentin.

- (DBM-D9-12) Evaluation of different attachments on retention and wear of implanted overdentures.
- (DBM-D9-13) Stability assessment of implant-supported prosthesis.
- (DBM-D9-14) Evaluation of complete denture mechanical properties by CAD/CAM constructed biohyppu-zirconia reinforced denture.
- (DBM-D9-15) Influence if implant inclination on retention & peri implant stresses of Stud-Retained implant overdentures.
- (DBM-D9-16) Evaluation of different attachments on implant supported overdenture.
- (DBM-D9-17) Measuring the effect of adding Itterbiumtrifluoride on Biodentin.
- (DBM-D9-18) Glass ionomer modification and mechanical testing.

- (END-D9-1) Mechanical testing of rotary files under different root canal condition.
- (END-D9-2) Fracture resistance of roots obturated with bioceramic and epoxy resin- root canal sealers using different obturation techniques.
- (END-D9-3) Stress analysis in root dentin using different obturation techniques.

- (OMPDR-D9-1) Marginal bone loss around mini-dental implants of two different lengths placed in narrow single edentulous space. (D9) (OMPDR)
- (OMPDR-D9-2) Influence of Different Decontamination Approaches on Bone Substitute Adhesion to Peri-Implantitis Affected Implant Surfaces. (D9) (OMPDR)
- (OMPDR-D9-3) Clinical and radiographic evaluation of crestal ridge splitting versus osseodensification techniques for dental implant placement into the narrow alveolar ridge.
- (OMPDR-D9-4) One-Stage Ridge Splitting using piezoelectric surgery in the atrophic maxilla with simultaneous implant placement clinical and radiographic evaluation.
- (OMPDR-D9-5) Efficacy of PRF Alone or Mixed With 1% Metformin Gel in Augmenting Narrow Ridge with Split-Crest Technique and Implant Installation.
- (OMPDR-D9-6) Periodontal Osseous Wall Piezosplitting and Sequential Bone Expansion in Management of Localized Intra-Bony Defects with Wide Angulation.

- (OMFS-D9-1) Evaluation of Herbert Screws & 3D Miniplates in Comparison to Double Miniplates in Fixation of Anterior Mandibular Fractures.

- (FPR-D9-1) Clinical evaluation of crowns retained by fiber composite post versus endo crowns in anterior teeth.
- (FPR-D9-2) Evaluation of different impression materials.
- (FPR-D9-3) Mechanical evaluation of posterior supported crowns.
- (FPR-D9-4) Effect of different materials & techniques on esthetic tone.
- (FPR-D9-5) Evaluation of mechanical properties of a new gradient zirconia.

- (PED-D9-1) Evaluation of dentin thickness and cleaning efficacy between manual and rotary systems in primary teeth.

- (ORD-D9-1) Comparison between the effectiveness of different bracket bonds in adolescents.
- (ORD-D9-2) Effect of laser therapy on mini-screw assisted upper incisor intrusion.
- (ORD-D9-3) Evaluation of en-masse retraction of maxillary anterior teeth using corticotomy facilitated orthodontics & mini-screws.

Domain (10) Digital Dentistry.

Digital dentistry refers to the use of dental technologies or devices that incorporates digital or computer-controlled components to carry out dental procedures rather than using mechanical or electrical tools. The use of digital dentistry can make carrying out dental procedures more efficient than using mechanical tools, both for restorative as diagnostic purposes. Used as a way to facilitate dental treatments and propose new ways to meet rising patient demands.

- (OMP-D10-1) Evaluation of lining designs of computer-guided surgical stents in implant-supported partial overdentures.
- (OMP-D10-2) Occlusal analysis using T-scan vs. articulating paper of mandibular implant supported prosthesis.
- (OMP-D10-3) Effect of laser as biomodulator for Osseo-disinfection in maxillary Kennedy class I.
- (OMP-D10-4) Effect of CAD/CAM milled zirconia teeth vs. porcelain teeth on the underlying structures.
- (OMP-D10-5) Effect of impression materials on bone loss on implant retained overdentures.
- (OMP-D10-6) Effect of CAD/CAM technology on adaptation of prosthetic restorations.
- (OMP-D10-7) The Influence of Implant Inclination on Retention and Peri-implant Stresses of Stud-Retained Implant.
- (OMP-D10-8) complications of cantilevered and non-cantilevered fixed hybrid metal acrylic prostheses used for vertical and inclined implants in atrophied mandible.

- (END-D10-1) Imaging modalities in detecting procedural errors of root canal therapy.
- (END-D10-2) Possibility of age and gender determination radiographically: comparison between CBCT and panoramic view of maxillary sinuses.
- (END-D10-3) Linear measurements of CBCT superimposition. Agreement between Panoramic Radiography and CBCT in Interpretation and Diagnosis of Jaw Lesions.

- (OMPDR-D10-1) Effect of CBCT dose reduction on the mandibular canal visibility.
- (OMPDR-D10-2) Intrusion of maxillary molar roots into the maxillary sinus using cone beam computed tomography.
- (OMPDR-D10-3) Frontal Sinus Index Protocol for Gender Determination: by Cephalometry.
- (OMPDR-D10-4) Oral Candidiasis of COVID-19 Patients.

- (OMPDR-D10-5) Volumetric and linear assessment of maxillary, mandibular and zygomatic bone as donor sites for alveolar ridge augmentation using CBCT.
- (OMPDR-D10-6) Validation of different protocols of inferior alveolar canal tracing using cone beam computed tomography (CBCT).
- (OMPDR-D10-7) CBCT 3d volume rendering noise and artifacts reduction in cases of impacted mandibular third molars.
- (OMFS-D10-1) Physical versus digital orthognathic surgical planning.
- (OMFS-D10-2) Computer-guided buccal cortical plate separation for removal of calcified benign odontogenic tumors affecting the mandibular angle region.

Domain (11) Host Modulation and Remedies.

Host modulation is a new term incorporated in our dental vocabulary. Host can be defined as “the organism from which a parasite obtains its nourishment.” Modulation is defined as “the alteration of function or status of something in response to a stimulus or an altered chemical or physical environment” (Taber's Medical Dictionary, 2004). In oral diseases that are initiated by bacteria, the “host” clearly is the individual who harbors these pathogens. Host modulation with chemotherapeutic therapy or drugs is a promising new adjunctive therapeutic option for the management of oral diseases.

- (OMPDR-D11-1) Effect of materials on treatment of patients complaining of benign migratory glossitis.
- (OMPDR-D11-2) Evaluation of the effect of materials on oral lichen planus.
- (END-D11-1) Effects of root canal irrigants on patients with necrotic pulp.
- (END-D11-2) Evaluation of preoperative use of medications on the efficiency and success of anesthesia for patients having for patients having symptomatic irreversible pulpitis.
- (END-D11-3) Evaluation of postoperative pain after rotary endodontic cleaning and shaping.
- (END-D11-4) Effect of different local anesthetic agents on pain perception after pulpal inflammation.
- (OBI-D11-1) Effect of natural herbs compounds in reversing the cellular oxidative stresses following chemical pollution injury.
- (OP-D11-1) Expression of Lyo-D in DMBA-treated hamster following thymoquinone injection.
- (OP-D11-2) Anti-inflammatory thymoquinone & muscle regeneration.
- (OP-D11-3) Effect of resveratrol in treatment of oral squamous cell carcinoma.
- (OP-D11-4) Immuno-histochemical study of invasive breast cancer after treatment of Aquaporin-3 vimentin & E-Cadherin expressions.

- (OP-D11-5) Therapeutic effect of Honokiol & S-Fluorouracil on the induced tongue cancer in rats.
- (OMP-D11-1) Evaluation of impression materials & techniques on the atrophic ridge.
- (DBM-D11-1) Desensitization of dentin with different techniques.
- (DBM-D11-1) Mechanical testing of self-healing composite with GI based microcapsules.
- (PED-D11-1) Revitalization of necrotic immature permanent anterior teeth with and without platelet rich fibrin.
- (PED-D11-2) Evaluation of lesion sterilization and tissue repair technique with new formulation of hyaluronic acid as treatment option in non-vital teeth.
- (PED-D11-3) Evaluation of different techniques of pulpotomy in management of inflamed pulps of primary teeth.
- (PED- D11-4) The Impact of Omega-3 on Improving Sleep Quality of children.
- (OMPDR -D11-1) Effect of diode laser combined with hydrodynamic acid gel in treatment of recurrent aphthous stomatitis in chitosan.
- (OMPDR -D11-2) Evaluation of adjunctive effect of daily dietary supplements with omega 3 and propolis to non-surgical periodontal therapy.
- (OMPDR -D11-3) A Comparative Study of The Effect of Demineralized Bone Matrix with and Without Low Level Laser Therapy on The Treatment of Periodontal Infra-Bony Defects.
- (OMPDR -D11-4) Efficacy of beta tri calcium phosphate with &without I-PRF to preserve alveolar socket of extracted teeth affected periodontitis stage 4 grade C.
- (OMPDR -D11-5) The use of concentrated rich plasma growth factors and tri calcium phosphate with immediate implant at sites of advanced periodontal destruction.
- (OMPDR -D11-6) Clinical and radiographic evaluation of fresh socket grafting using beta-tri-calcium phosphate with collagen &PRF fibrin for receiving dental implants.
- (OMPDR -D11-7) The effects of non-surgical periodontal therapy on glycemic control in diabetic patients.
- (OMPDR -D11-8) Impact of non-surgical periodontal therapy on visfatin level in gingival crevicular fluid of type ii diabetic patients with periodontitis.
- (OMPDR -D11-9) Salivary level of interleukin-17 in patients having atrophic and erosive oral lichen planus before and after treatment with topical steroids.
- (OMPDR -D11-10) Clinical and Radiographical Evaluation of Dexamethasone and Formocresol alone or in Conjunction with Low-Level Laser Therapy during Pulpotomy of Primary Molars.

- (OMFS -D11-1) Clinical study of intra-articular injection of visco-supplement cross linked hyaluronic acid and mannitol after arthrocentesis in management of temporomandibular joint derangement.
- (OMFS -D11-2) A comparative study to evaluate the effect of Puerarin versus simvastatin as osteoconductive material for Maxillary sinus augmentation.
- (OMFS -D11-3) Probing depth and patient satisfaction with mandibular overdentures retained by four versus two mini-implants.
- (OMFS -D11-4) Assessment of bone density and stability with immediately loaded dental implants with the All-on-Four technique in free vascularized fibular grafts used for mandibular reconstruction.

Domain (12) Biocompatibility, Toxicity, and Drug Interaction

Biomaterials applications have rapidly expanded into different fields of sciences. One of the important fields of using biomaterials is dentistry, which can facilitate implantation, surgery, and treatment of oral diseases such as peri-implantitis, periodontitis, and other dental problems. Drug delivery systems based on biocompatible materials play a vital role in the release of drugs into aim tissues of the oral cavity with minimum side effects.

- (OPR -D12-1) Clinical evaluation of adding varnish (gioma) on sensitivity of teeth treated with composite restorations.
- (OP -D12-1) Effect of H1Ras and C-kit genes on tumorigenesis of salivary gland tumors.
- (OP-D12-2) Effect of mesenchymal stem cell-derived exosomes on head and neck carcinomas.
- (OP -D12-3) The expression of COX2 and TGFB on carcinomas of salivary glands.
- (OP-D12-4) MALAT1 as a potential salivary biomarker in oral squamous cell carcinoma.
- (DBM-D12-1) Evaluation of natural materials as RC irrigant compared to sodium hypochlorite.
- (END-D12-1) Biocompatibility of BC-sealers.
- (END-D12-2) Effect of continuous chelation on the dentinal tubule penetration of a calcium silicate-based root canal sealer.
- (OBI-D12-1) Effect of nanosodium Glutamate on salivary gland & buccal mucosa of Albino rats.
- (OBI-D12-2) Effect of antihepalutic C-drugs on oral epithelium of experimental animals.
- (OBI-D12-3) Effect of calcium carbonate & covarine on enamel structure.
- (OBI-D12-4) Effect of nano-materials and drugs on salivary glands & oral epithelium.
- (OBI-D12-5) Assessment of P.L. cells structure in different age groups of Albino rats compared to human.
- (OBI-D12-6) Biocompatibility of Monosodium Gluatamate on buccal mucosa of experimental animals.

- (OBI-D12-7) Effect of materials on labial tissues of rats.
- (OBI-D12-8) Effect of melatonin & vitamin C on aged labial tissue.

Domain (13) Nanotechnology

Nanotechnology deals with the physical, chemical, and biological properties of structures and their components at nanoscale dimensions. The use of this technology will allow many developments in the health sciences as well as in materials science, biotechnology, electronic and computer technology, aviation, and space exploration. With developments in materials science and biotechnology, nanotechnology is especially anticipated to provide advances in dentistry and innovations in oral health-related diagnostic and therapeutic methods.

- (OPR-D13-1) Evaluating the remineralization of enamel using nano materials.
- (OPR-D13-2) Using Nano-chitosan particles on microtensile bond strength of resin composite to dentin.
- (OPR-D13-3) Effect of chitosan and nano fibers additives on the mechanical properties of composite resin restorations.

- (END-D13-1) Antimicrobial potential of nano-materials.

- (DBM-D13-1) Effect of using resinous cements on binding to ceramic restorations treated with nano-sized grapheneoxide.
- (DBM-D13-2) Effect of using nano-graphene on tricalcium silicate cement.
- (DBM-D13-3) Effect of nano-sized eggshell containing supplement as natural alloplast.

- (OMPDR-D13-1) Histomorphometric and CBCT comparison of Osseo integration around orthodontic titanium miniscrews coated with different nanoparticles.

- (OBI-D13-1) Nanotechnology applications on teeth, oral tissues and salivary glands.
- (OBI-D13-2) The effect of zinc oxide nanoparticles attenuate cadmium chloride on induced tongue toxicity in rats.
- (OBI-D13-3) Effect of nanoparticles toxicity on adult albino rats.

الخطة التنفيذية للخطة البحثية لكلية طب الفم والأسنان الجامعة المصرية الروسية:
الخطة البحثية لكلية تنبثق من المحور الثالث (الصحة) في المسار الثاني من محاور الخطة الإستراتيجية للدولة للبحث العلمي.

المسار الثاني:

مقترح الخطة التنفيذية للإستراتيجية التعليمية العالي العلمي للعلوم و التكنولوجيا و الابتكار في مجال إنتاج و توطير التكنولوجيا.

المحور الثالث: الصحة

1. تطوير سياسات صحية و غذائية و رسم خريطة للأمراض في مصر.
2. تطوير المنظومة الصحية و استحداث طرق جديدة للعلاج و الوقاية من الأمراض.
3. اكتشاف تطبيقات تكنولوجية حديثة في المجال الطبي التشخيصي والعلاجي.
4. تعميق وتقنين بحوث الطب البديل.
5. الارتقاء بالوعي بصحة الفم و الأسنان.

الخطة التنفيذية: رفع كفاءة وفعالية البحث العلمي

الأهداف	المخرجات	الأنشطة	المسؤولية	التمويل	الإطار الزمني للتنفيذ	مؤشرات التنفيذ
1. توفير بيئة داعمة للبحث العلمي	خطة بحثية للكلية موثقة ومعلنة ومعتمدة وتتوافق مع خطة الجامعة للاعوام 2020 - 2025	تشكيل لجنة اعداد الخطة البحثية للكلية من رؤساء الأقسام و منسق معيار البحث العلمي و مدير وحدة الجودة. تحديد احتياجات المجتمع الصحية اعداد مقترح التوجهات البحثية لأقسام الكلية. عقد ورش عمل مع المستفيدين لمناقشة المقترحات. تشكيل لجنة مراجعة الخطة البحثية في ضوء خطة الجامعة و احتياجات المجتمع الصحية. اعتماد الخطة البحثية ونشرها على المعنيين.	- أ.د. عميد الكلية - رؤساء الاقسام العلمية - مدير وحدة ضمان الجودة	- 5000	يونيو- سبتمبر 2020	خطة بحثية معتمدة للاعوام 2020/2025
آلية معتمدة للمتابعة السنوية للأبحاث والرسائل العلمية من جميع الأقسام.	عقد ورش عمل لوضع الية لمتابعة تنفيذ الخطة البحثية لاقسام الكلية. تقديم تقرير سنوي من للاقسام لمجلس الكلية بالإنتاج البحثي لأعضاء هيئة التدريس و الهيئة المعاونة وفقاً للخطة الموضوعية.	- رؤساء الاقسام العلمية - مدير وحدة ضمان الجودة	- 2000	سبتمبر-ديسمبر 2020	وجود تقارير للمتابعة السنوية للخطة البحثية	
تفعيل مشاركة الكلية مع مركز الجامعة لدعم البحوث العلمية	الانتهاء من انشاء المركز الرئيسي بالجامعة وتشكيل مجلس الادارة وفريق العمل. تشكيل لجنة من أعضاء هيئة التدريس بالكلية كممثلين للكلية في مركز الجامعة. المشاركة في ورش العمل الخاصة برفع الوعي بالمشاريع البحثية وجهات التمويل المختلفة محليا ودوليا. حصر مخصصات البحث العلمي للكلية من الجامعة ودراسة مدى كفايتها لدعم البحث العلمي بالكلية. التنسيق مع مركز الجامعة لتحديد مصادر اضافية لدعم البحث العملي.	- مدير وحدة ضمان الجودة - الاقسام العلمية	- 10000	يناير 2020 -يناير 2021	زيادة الابحاث العلمية المنشورة دوليا بمعدل 5% سنويا. وجود مشروع بحثي ممول واحد على الأقل.	
تطوير البنية التحتية للبحث العلمي	انشاء مبني العيادات بالكلية انشاء عيادات جديدة بمبني الكلية الرئيسي	- إدارة الكلية	- 30000000	يناير 2020 -ديسمبر 2021	- وجود مبني جديد للعيادات مكون من 3 ادوار وبدروم	

<p>ومزود بعدد 200 وحدة اسنان على الاقل</p> <ul style="list-style-type: none"> - إنشاء العيادة 9 أ وب بسعة 34 وحدة اسنان. - عيادة الأمتياز وعيادة لعلاج (الجزور) و وحدة الميكروسكوب الجراحي تشمل 8 وحدات أسنان. - إنشاء عيادة طب أسنان الأطفال للإمتياز. - 						
<ul style="list-style-type: none"> - وجود يوم علمي لكافة الاقسام العلمية مرة واحدة على الاقل بكل فصل دراسي - مشاركة الكلية في مؤتمر علمي واحد على الاقل 	<p>- يناير- مارس 2020</p>	<p>- 1000000</p>	<ul style="list-style-type: none"> - عميد الكلية - رؤساء الأقسام - أعضاء هيئة التدريس. 	<ul style="list-style-type: none"> - تشكيل لجنة لدراسة عمل / مشاركة الكلية في المؤتمرات العلمية. - حصر مشاركات أعضاء هيئة التدريس في المؤتمرات المحلية و الدولية خلال العام. - عمل أيام علمية داخل الكلية من أقسام الكلية دوريا. 	<p>2. دعم البحوث العلمية و النشر الدولي و منح حوافز للمتميزين.</p>	
<ul style="list-style-type: none"> - وجود قائمة بالاتفاقيات - وجود بروتوكول واحد على الاقل مفعلا 	<p>- مارس- يونيو 2020</p>	<p>- 50000</p>	<ul style="list-style-type: none"> - عميد الكلية - رؤساء الاقسام العلمية - ومدير وحدة ضمان الجودة 	<ul style="list-style-type: none"> - اعداد دراسة لتحديد وحصر المراكز البحثية ذات الصلة وواجه التعاون معها. - وضع خطة للتواصل مع المراكز البحثية ات الصلة وعقد اتفاقيات وبروتوكولات للتعاون البحثي والعلمي. - متابعة تفعيل الاتفاقيات ومردود ذلك على البحث العلمي بالكلية. 	<p>اتفاقيات و بروتوكولات تعاون مع الجامعات والمراكز المحلية والدولية</p>	

	دعم مادي ومالي لتحفيز أعضاء هيئة التدريس و للهيئة المعاونة (ماجستير و دكتوراة) على النشر العلمي.	- تخصيص ميزانية متمثلة في مشاركة الجامعة في الدعم المادي للهيئة المعاونة. - تخصيص ميزانية لمكافآت مالية للنشر العلمي (دولي أو محلي). - تكريم الجامعة و الكلية للمتميزين فى النشر العلمى من أعضاء هيئة التدريس والهيئة المعاونة. - إعطاء أعضاء الهيئة المعاونة أيام تفرغ مدفوعة الأجر للدراسة في الجامعات الأخرى. - توفير دورات تدريبية فى البحث العلمياً لأعضاء هيئة التدريس والهيئة المعاونة.	- أمين عام الجامعة و الإدارة المالية. - إدارة الكلية. وحدة التدريب	- 2000000	- سنوي من 2020
	انشاء قواعد بيانات للأبحاث و الرسائل العلمية المنشورة.	- حصر رسائل الماجستير و الدكتوراة المقدمة من كافة الأقسام سنويا. - حصر النشر العلمي سنويا لأعضاء هيئة التدريس و الهيئة المعاونة. - حصر البحوث العملية المشتركة والبحاث التطبيقية. - حصر الجوائز العلمية الحاصل عليها أعضاء هيئة التدريس والهيئة المعاونة والمشاركات فى لجان تحكيم و تحرير المجالات العلمية	- وحدة الجودة. - الأقسام العلمية.	- 10000	- ديسمبر 2020 مارس 2021 و تحدث سنويا
3. إنشاء وتطوير لجان ووحدات دعم البحث العلمي	لجنة أخلاقيات البحث العلمي مفعلة.	- اعداد واعتماد تشكيل لفريق عمل لجنة اخلاقيات البحث العلمي. - اعداد واعتماد قواعد واليات عمل للجنة. - تفعيل دور الوحدة في مراجعة الأبحاث المقدمة لها من الأقسام.	- عميد الكلية مقرر وأعضاء لجنة أخلاقيات البحث العلمي.	- 5000	- سبتمبر- ديسمبر 2020
	ميثاق أخلاقي مفعل للبحث العلمي	- اعداد الدليل. - مراجعة واعتماد الدليل بمجلس الكلية. - الإعلان عن الدليل بالوسائل المختلفة.	- عميد الكلية مقرر وأعضاء لجنة أخلاقيات البحث العلمي.		- 2020
			- وجود تقارير دورية للجنة بمراجعة البحوث العلمية.		
			- طباعة الدليل بعد إعتماده وإعلانه على موقع الكلية والجامعة الإلكتروني.		



<p>مجلة وجود علمية محكمة للجامعة</p>	<p>- يناير 2021 - يناير 2022</p>	<p>100000</p>	<p>- إدارة البحوث بالجامعة.</p>	<p>- الانتهاء من انشاء مجلة علمية محكمة بالجامعة وتشكيل ادارة التحرير وفريق العمل. - تشكيل لجنة من أعضاء هيئة التدريس بالكلية كمثلين للكلية في المجلة الجامعة. - وضع خطة لادراج المجلة ضمن قواعد التصنيف الدولية. - وضع الية لتحفيز أعضاء هيئة التدريس والهيئة المعاونة للنشر بالمجلة.</p>	<p>استحداث و تفعيل مجلة علمية للجامعة.</p>	
<p>وحدة قرار والتدريب المستمر. لائحة مالية وإدارية معتمدة للوحدة. خطط تدريب سنوية</p>	<p>- ديسمبر 2020 - 2021</p>	<p>50000</p>	<p>- عميد الكلية - لجنة التدريب المستمر - رؤساء الأقسام - أعضاء هيئة التدريس.</p>	<p>- الانتهاء من تطوير لجنة التدريب المستمر لتكون وحدة تتبع أ.د. عميد الكلية ديسمبر 2019 - اعداد واعتماد اللائحة الادارية والمالية للوحدة. - اعداد خطة سنوية للمشاركات في أنشطة علمية (أيام علمية و دورات تدريبية لأعضاء هيئة التدريس و الهيئة المعاونة). - تطوير وحدة التدريب و التعليم المستمر خلال عام 2020 و تم تأجيل التطوير حتى عام 2021 وذلك لتفشي جائحة كورونا.</p>	<p>تطوير لجنة التعليم المستمر و استحداث وحدة التدريب و التعليم المستمر.</p>	
<p>- الإعلان من قبل الوحدة عن فرص المشاركة في المشاريع البحثية الخارجية في مختلف التخصصات (ماجستير و دكتوراة و ما بعد الدكتوراة)</p>	<p>- 2021</p>	<p>- الجامعة و المنح المقدمة من الخارج</p>	<p>- الجامعة</p>	<p>- وحدة Scientific Research and Development (SRD) بالجامعة.</p>	<p>إنشاء وحدة للأبحاث المشتركة</p>	<p>4. الربط العلمي بين الاقسام الداخلية بالكلية وبين الكلية و الكليات الأخرى عبر عمل برامج بحثية متكاملة تهدف إلى إنتاج مخرجات تخدم الصحة العامة.</p>

آلية متابعة الخطة البحثية لكلية طب الفم و الأسنان الجامعة المصرية الروسية:

أولاً: عناصر متابعة الخطة البحثية:

- 1- متابعة تحقيق مجالات الخطة البحثية المقدمة من القسم العلمى.
- 2- متابعة تطبيق مؤشرات أداء الخطة البحثية للكلية كما يلي:

مسئولية متابعة الخطة البحثية:

يتم مراجعة الخطة البحثية عن طريق مجالس الأقسام العلمية كالاتي:

1. مطابقة التقارير السنوية المقدمة من الأقسام العلمية بالخطة البحثية لكل قسم و تحديد نسبة ما تم إنجازه .
2. تقديم تقرير سنوي بالأبحاث التي تم نشرها لكل قسم و عدد الرسائل العلمية التي تم إنجازها.

ثانياً: أهداف المتابعة:

1. متابعة تحقيق مجالات ومؤشرات أداء الخطة البحثية للكلية.
2. اتخاذ الاجراءات التصحيحية وحل المشكلات التى تعيق تنفيذ الخطة البحثية للكلية.
3. الارتقاء بمنظومة البحث العلمى بالكلية.

ثالثاً: نماذج متابعة الخطة البحثية:

1. نموذج تصنيفى: يتم ادارجه مع كل خطة بحث مقدمة للجنة اخلاقيات البحث العلمى.
2. تقرير متابعة دورى سنوي مجمع: يقدم من رؤساء الأقسام لوحدة الجودة كل عام لبيان تحقيق مجالات ومؤشرات اداء الخطة البحثية لكل قسم و يعتمد من مجلس الكلية لاتخاذ الاجراءات التصحيحية اللازمة فى حال الانحراف عن تحقيق الخطة.



Department	General Topics of Department Research Plan	Responsibility	Assignment Date	Duration of implementation and Follow up
1. Removable Prosthodontics. (OMP)	1. (OMP-D3-4) Clinical & radiographic evaluation of bar locator attachments for maxillary implant overdentures. 2. (OMP-D3-5) Denture base deformation with different attachments used to stabilize implant overdentures. 3. (OMP-D9-1) Effect of different designs of implant telescopic crowns supporting overdentures. 4. (OMP-D10-1) Evaluation of lining designs of computer-guided surgical stents in implant-supported partial overdentures. 5. (OMP-D10-2) Occlusal analysis using T-scan vs. articulating paper of mandibular implant supported prosthesis. 6. (OMP-D10-3) Effect of laser as biomodulator for Osseo-disinfection in maxillary Kennedy class I. 7. (OMP-D10-4) Effect of CAD/CAM milled zirconia teeth vs. porcelain teeth on the underlying structures. 8. (OMP-D10-5) Effect of impression materials on bone loss on implant retained overdentures. 9. (OMP-D10-6) Effect of CAD/CAM technology on adaptation of prosthetic restorations. 10. (OMP-D10-7) The Influence of Implant Inclination on Retention and Peri-implant Stresses of Stud-Retained Implant. 11. (OMP-D10-8) complications of cantilevered and non-cantilevered fixed hybrid metal acrylic prostheses used for vertical and inclined implants in atrophied mandible. 12. (OMP-D11-1) Evaluation of impression materials & techniques on the atrophic ridge.	Staff and Assistant staff members of removable prosthodontic department.	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.
13. Orthodontics. (ORD)	1. (ORD-D5-1) Treatment outcomes of graduate clinical program. 2. (ORD-D9-1) Comparison between the effectiveness of different bracket bonds in adolescents.	Staff and Assistant staff members of	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the

	<ol style="list-style-type: none"> 3. (ORD-D9-2) Effect of laser therapy on mini-screw assisted upper incisor intrusion. 4. (ORD-D9-3) Evaluation of en-masse retraction of maxillary anterior teeth using corticotomy facilitated orthodontics & mini-screws. 	orthodontic department		head of the department showing the progression in the assigned research.
14. Operative Dentistry. (OPR)	<ol style="list-style-type: none"> 1. (OPR- D1-1) Assessment of using different methods on high caries risk patients. 2. (OPR- D1-2) Preventive measures of tooth pastes and mouth washes influencing high caries risk patients. 3. (OPR- D1-3) Oral manifestations of Covid 19-patients in Egyptian population. 4. (OPR-D4-1) The use of stem cell therapy on the formation of reparative dentin. 5. (OPR-D4-2) Reparative dentin formation following stem cell therapy and MTA in direct pulp capping. 6. (OPR-D4-3) Nanotechnology in tooth tissue regenerative therapy. 7. (OPR-D4-5) Applications of stem cells with different scaffolds in oral tissues regeneration. 8. (OPR-D6-1) Color change and degree of solubility of GI containing following chlorhexidine cements. 9. (OPR-D6-2) Treatment of white spots in enamel. 10. (OPR-D6-3) Clinical performance of direct anterior composites using esthetic dual shade polychromatic natural layering technique. 11. (OPR-D6-4) The effect of silver diamide fluoride on physical and mechanical properties of resin composite restoration 12. (OPR-D7-1) Methods of treatment of hypersensitivity on high caries risk patients. 13. (OPR-D7-2) Clinical performance of short fiber reinforced resin composite restoration. 14. (OPR-D7-3) Efficacy of varnishes as desensitizing agents. 15. (OPR-D7-4) Surface treatment protocols in repair of aged composite. 16. (OPR-D7-5) Biomimetic remineralization of demineralized enamel with different materials. 	Staff and Assistant staff members of operative dentistry department	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.

17. (OPR-D7-6) Clinical evaluation of bioactive restorative material vs resin modified GI in cervical restorations.
18. (OPR-D7-7) Methods of enhancement pits & fissure sealants on enamel remineralization.
19. (OPR-D7-8) Marginal integrity of composite restoration with gold & silver nanoparticles.
20. (OPR-D7-9) Remineralization of different materials for demineralized enamel in acidic challenges.
21. (OPR-D7-10) Evaluation of tooth paste containing charcoal & sea salt lemon on stain removal & surface roughness.
22. (OPR-D7-11) Effect of materials on bond strength durability of Glass ionomer restoration.
23. (OPR-D7-12) Effect of Canal simulation design on fracture resistance and retention of core materials.
24. (OPR-D7-13) The effect of different scanning systems on marginal and internal adaptation of indirect restorations.
25. (OPR-D8-1) The effect of adding short fiber composite resin onlays versus indirect nanohybrid resin composite onlay restorations in complex proximal cavities.
26. (OPR-D8-2) Impact of matrix systems on proximal contact tightness and surface geometry in class II direct composite.
27. (OPR-D9-1) Measuring the effect of beverages and brushing techniques on the mechanical properties of composite restorations.
28. (OPR-D9-2) Clinical evaluation of different restorative materials.
29. (OPR-D9-3) Mechanical testing of Cention, Bulkfill composite, and GI cement.
30. (OPR-D9-4) Dentin sealing under simulated pulp pressure of indirect resin composite restorations & dentin permeability.
31. (OPR-D9-5) Mechanical testing of bond strength & microhardness of photopolymerized luting composites.
32. (OPR-D12-1) Clinical evaluation of adding varnish (gioma) on sensitivity of teeth treated with composite restorations.

	<p>33. (OPR-D13-1) Evaluating the remineralization of enamel using nano materials.</p> <p>34. (OPR-D13-2) Using Nano-chitosan particles on microtensile bond strength of resin composite to dentin.</p> <p>35. (OPR-D13-3) Effect of chitosan and nano fibers additives on the mechanical properties of composite resin restorations.</p>			
<p>15. Oral and Maxillofacial Surgery. (OMFS)</p>	<p>2. (OMFS-D1-1) Effect of COVID-19 on the prevalence and severity of TMD symptoms.</p> <p>3. (OMFS-D3-1) Evaluation of different types of membranes on alveolar cleft repair.</p> <p>4. (OMFS-D3-2) Evaluation of specific implants on cranioplasty of patients.</p> <p>5. (OMFS-D3-3) Evaluation of A single puncture versus a double puncture arthrocentesis technique in the treatment of anterior disc displacement without reduction.</p> <p>6. (OMFS-D3-4) Prosthetic and biological complications of implant-retained fixed versus removable telescopic overdentures.</p> <p>7. (OMFS-D7-1) Evaluation of socket shield technique in implant placement in aesthetic zones.</p> <p>8. (OMFS-D9-1) Evaluation of Herbert Screws & 3D Miniplates in Comparison to Double Miniplates in Fixation of Anterior Mandibular Fractures.</p> <p>9. (OMFS-D10-1) Physical versus digital orthognathic surgical planning.</p> <p>10. (OMFS-D10-2) Computer-guided buccal cortical plate separation for removal of calcified benign odontogenic tumors affecting the mandibular angle region.</p> <p>11. (OMFS -D11-1) Clinical study of intra-articular injection of visco-supplement cross linked hyaluronic acid and mannitol after arthrocentesis in management of temporomandibular joint derangement.</p> <p>12. (OMFS -D11-2) A comparative study to evaluate the effect of Puerarin versus simvastatin as osteoconductive material for Maxillary sinus augmentation.</p>	<p>Staff and Assistant staff members of oral and maxillofacial surgery department</p>	<p>2020</p>	<p>3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.</p>

	<p>13. (OMFS -D11-3) Probing depth and patient satisfaction with mandibular overdentures retained by four versus two mini-implants.</p> <p>14. (OMFS -D11-4) Assessment of bone density and stability with immediately loaded dental implants with the All-on-Four technique in free vascularized fibular grafts used for mandibular reconstruction.</p>			
<p>15. Oral Pathology. (OP)</p>	<ol style="list-style-type: none"> 1. (OP-D1-1) Prevalence of meningioma (intra-oral rare condition). 2. (OP-D1-2) Prevalence of intra-oral cancer in Egyptian population. 3. (OP-D1-3) Nano technology (chemo-thermal) therapy of oral squamous cell carcinoma. 4. (OP-D1-4) Effect of corona virus patients with severe respiratory syndrome, Guidelines. 5. (OP-D1-5) Post-COVID-19 related osteonecrosis of the jaw (PC-RONJ). 6. (OP-D1-6) Correlation between H. Pylori infection and COVID-19 among Egyptian population. 7. (OP-D5-1) Factors affecting the behavior of odontogenic cysts. 8. (OP-D5-2) Immuno-histochemical study of high expression of KIF23 & loss of C-CBL in gastric cancer patients. 9. (OP-D5-3) Mucormycosis associated with Covid-19 & mortality rates, Global analysis. 10. (OP-D5-4) Prognostic roles of ZNF 703 & SMAD4 in patients with thyroid cancer & associated with nodal metastasis. 11. (OP-D5-5) Immuno-histochemical analysis of PCNA & FAK expression in odontogenic lesions. 12. (OP-D5-6) Histological evaluation of Denosumab treatment on healing of calvarial bone defect. 13. (OP-D11-1) Expression of Lyo-D in DMBA-treated hamster following thymoquinone injection. 14. (OP-D11-2) Anti-inflammatory thymoquinone & muscle regeneration. 15. (OP-D11-3) Effect of resveratrol in treatment of oral squamous cell carcinoma. 	<p>Staff and Assistant staff members of oral pathology department</p>	<p>2020</p>	<p>3 years</p> <p>Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.</p>

	<ol style="list-style-type: none"> 16. (OP-D11-4) Immuno-histochemical study of invasive breast cancer after treatment of Aquaporin-3 vimentin & E-Cadherin expressions. 17. (OP-D11-5) Therapeutic effect of Honokiol & S-Fluorouracil on the induced tongue cancer in rats. 18. (OP -D12-1) Effect of H1Ras and C-kit genes on tumorigenesis of salivary gland tumors. 19. (OP-D12-2) Effect of mesenchymal stem cell-derived exosomes on head and neck carcinomas. 20. (OP -D12-3) The expression of COX2 and TGFB on carcinomas of salivary glands. 21. (OP-D12-4) MALAT1 as a potential salivary biomarker in oral squamous cell carcinoma 			
1. Endodontics. (END)	<ol style="list-style-type: none"> 1. (END-D1-1) Evaluation of root canal morphology of premolars in Egyptian population. 2. (END- D4-1) Post-operative pain measurement after non-surgical treatment & regenerative approaches. 3. (END- D4-2) The use of different regenerative approaches in regeneration of non-vital pulps. 4. (END- D4-3) Management of immature roots, methods & materials. 5. (END-D4-4) Single visit photo-activated disinfection in regenerative endodontics. 6. (END-D5-1) Apical extrusion of debris & their effect on the outcome of KCT. 7. (END-D5-2) Periapical healing after different regenerative approaches. 8. (END-D5-3)Methods of treatment of internal root resorption & techniques. 9. (END-D5-4) Evaluation of perforation repair using different materials and techniques at furcation area. 10. (END-D8-1) Evaluation of retrieval methods of separated instruments. 11. (END-D8-2) Measuring the mechanical properties of different NiTi rotary files. 12. (END-D9-1) Mechanical testing of rotary files under different root canal condition. 	Staff and Assistant staff members of endodontic department.	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.

	<ol style="list-style-type: none"> 13. (END-D9-2) Fracture resistance of roots obturated with bioceramic and epoxy resin- root canal sealers using different obturation techniques. 14. (END-D9-3) Stress analysis in root dentin using different obturation techniques. 15. (END-D10-1) Imaging modalities in detecting procedural errors of root canal therapy. 16. (END-D10-2) Possibility of age and gender determination radiographically: comparison between CBCT and panoramic view of maxillary sinuses. 17. (END-D10-3) Linear measurements of CBCT superimposition. Agreement between Panoramic Radiography and CBCT in Interpretation and Diagnosis of Jaw Lesions. 18. (END-D11-1) Effects of root canal irrigants on patients with necrotic pulp. 19. (END-D11-2) Evaluation of preoperative use of medications on the efficiency and success of anesthesia for patients having for patients having symptomatic irreversible pulpitis. 20. (END-D11-3) Evaluation of postoperative pain after rotary endodontic cleaning and shaping. 21. (END-D11-4) Effect of different local anesthetic agents on pain perception after pulpal inflammation. 22. (END-D12-1) Biocompatibility of BC-sealers. 23. (END-D12-2) Effect of continuous chelation on the dentinal tubule penetration of a calcium silicate–based root canal sealer. 24. (END-D13-1)Antimicrobial potential of nano-materials. 			
1. Oral Biology. (OBI)	<ol style="list-style-type: none"> 1. (OBI-D1-1) Comparing teeth microanatomy, measurements and variations related to age and sex in different regions of Egyptian society. 2. (OBI-D1-2) Histological assessment of PL. of rats in comparison to that of humans at different ages. 3. (OBI-D1-3)Morphology of occlusal surface of maxillary molars in Egyptian population. 4. (OBI-D1-4)Morphology of root & root canals of permanent mandibular anterior teeth in Egyptian population. 	Staff and Assistant staff members of oral biology department.	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.

	<ol style="list-style-type: none"> 5. (OBI-D1-5) Morphology of molars of Egyptian population. 6. (OBI-D4-1) Bone tissue regeneration after using regenerative methods, materials and techniques of stem cells. 7. (OBI-D5-1) The rule of Angiogenesis & mast cells in prognostic behavior of odontogenic cysts. 8. (OBI-D11-1) Effect of natural herbs compounds in reversing the cellular oxidative stresses following chemical pollution injury. 9. (OBI-D12-1) Effect of nanosodium Glutamate on salivary gland & buccal mucosa of Albino rats. 10. (OBI-D12-2) Effect of antihepalutic C-drugs on oral epithelium of experimental animals. 11. (OBI-D12-3) Effect of calcium carbonate & covarine on enamel structure. 12. (OBI-D12-4) Effect of nano-materials and drugs on salivary glands & oral epithelium. 13. (OBI-D12-5) Assessment of P.L. cells structure in different age groups of Albino rats compared to human. 14. (OBI-D12-6) Biocompatibility of Monosodium Gluatamate on buccal mucosa of experimental animals. 15. (OBI-D12-7) Effect of materials on labial tissues of rats. 16. (OBI-D12-8) Effect of melatonin & vitamin C on aged labial tissue. 17. (OBI-D13-1) Nanotechnology applications on teeth, oral tissues and salivary glands. 18. (OBI-D13-2) The effect of zinc oxide nanoparticles attenuate cadmium chloride on induced tongue toxicity in rats. 19. (OBI-D13-3) Effect of nanoparticles toxicity on adult albino rats. 			
<p>20. Fixed prosthodontics. (FPR)</p>	<ol style="list-style-type: none"> 1. (FPR-D3-1) Evaluation of marginal adaptation and internal fit of provisional bridges. 2. (FPR -D6-1) Esthetic evaluation of rebounded laminates. 3. (FPR -D6-2) Effect of strong media on the esthetic effect of CAD/CAM materials. 4. (FPR -D6-3) Evaluation of different scanning techniques of occlusal veneers. 5. (FPR -D6-4) Evaluation of back grand color and thickness of different zirconia crowns. 	<p>Staff and Assistant staff members of fixed prosthodontic department.</p>	<p>2020</p>	<p>3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.</p>

	<ol style="list-style-type: none"> 6. (FPR -D6-5) Esthetic evaluation of rebounded laminates. 7. (FPR-D6-6) Evaluation of back grand color and thickness of different zirconia crowns. 8. (FPR-D7-1) Repair evaluation of zirconia by composite resin. 9. (FPR-D8-1) The effect of milled Bio HPP polyether and ether ketone (PEEK) on zirconia-based single crowns. 10. (FPR-D8-2) The effect of laser on debonding of ceramic restorations. 11. (FPR-D8-3) Clinical evaluation of crowns retained by fiber composite posts versus endocrowns in anterior teeth. 12. (FPR-D8-4) Fitness evaluation of CAD/CAM endocrowns with different materials and designs. 13. (FPR-D8-5) Measuring the mechanical properties of restorations with different designs in root canal treated teeth. 14. (FPR-D8-6) The effect of laser on debonding of ceramic restoration. 15. (FPR-D8-7) Fitness evaluation of CAD CAM endo crowns with different materials & designs. 16. (FPR-D8-8) Repair evaluation of zirconia by composite resin. 17. (FPR-D8-9) Measuring the mechanical properties of restorations with different designs in root canal treated teeth. 18. (FPR-D9-1) Clinical evaluation of crowns retained by fiber composite post versus endo crowns in anterior teeth. 19. (FPR-D9-2) Evaluation of different impression materials. 20. (FPR-D9-3) Mechanical evaluation of posterior supported crowns. 21. (FPR-D9-4) Effect of different materials & techniques on esthetic tone. 22. (FPR-D9-5) Evaluation of mechanical properties of a new gradient zirconia. 			
23. Dental Biomaterials. (DBM)	<ol style="list-style-type: none"> 1. (DBM-D4-1) Bone graft (scaffold) from polycaprolactone / gelatin & bioactive glass for bone tissue engineering. 2. (DBM-D4-2) Tissue engineering and regeneration, materials and techniques. 3. (DBM-D7-1) Management of white spots of enamel using resin infiltration. 4. (DBM-D8-1) Reviewing of scanning electron microscopy. 	Staff and Assistant staff members of dental biomaterials	2020	3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing

5. (DBM-D8-2) Effect of incorporation of Nanographine on some properties of tricalcium silicate cement.
6. (DBM-D9-1) Evaluation of two resin composites having different matrix compositions.
7. (DBM-D9-2) Polymerization efficiency of a bulk-fill composite matrix.
8. (DBM-D9-3) Mechanical testing of dual polymerized resin core.
9. (DBM-D9-4) Effect of root canal irrigants on microhardness of dentin.
10. (DBM-D9-5) Bond strength evaluation with different materials & modes of polymerization.
11. (DBM-D9-6) Optical analysis of dental materials.
12. (DBM-D9-7) Atomic structure & bonding.
13. (DBM-D9-8) Enhancing mechanical properties of Biodentin.
14. (DBM-D9-9) Evaluation of ultra-translucent zirconia.
15. (DBM-D9-10) Mechanical testing of NiTi ortho arch wires following intra-oral use.
16. (DBM-D9-11) Effect of natural dentin crosslinking on the durability of composite resin bonding with demineralized dentin.
17. (DBM-D9-12) Evaluation of different attachments on retention and wear of implanted overdentures.
18. (DBM-D9-13) Stability assessment of implant-supported prosthesis.
19. (DBM-D9-14) Evaluation of complete denture mechanical properties by CAD/CAM constructed biohppu-zirconia reinforced denture.
20. (DBM-D9-15) Influence if implant inclination on retention & peri implant stresses of Stud-Retained implant overdentures.
21. (DBM-D9-16) Evaluation of different attachments on implant supported overdenture.
22. (DBM-D9-17) Measuring the effect of adding Itterbiumtrifluoride on Biodentin.
23. (DBM-D9-18) Glass ionomer modification and mechanical testing.
24. (DBM-D13-1)Effect of using resinous cements on binding to ceramic restorations treated with nano-sized graphaneoxide.

the progression in the assigned research.

	<p>25. (DBM-D13-2)Effect of using nano-graphene on tricalcium silicate cement.</p> <p>26. (DBM-D13-3)Effect of nano-sized eggshell containing supplement as natural alloplast.</p>			
<p>24. Pedodontics. (PED)</p>	<ol style="list-style-type: none"> 1. (PED-D1-1)Eruption sequence of primary & permanent teeth. 2. (PED-D1-2) Prevention of dental caries and other common oral dental diseases in children. 3. (PED-D1-3) Detecting risk factors for dental caries and other dental diseases in children. 4. (PED-D1-4) Caries & periodontal disease assessment in Egyptian population. 5. (PED-D1-5)Assessment of Salivary Bacterial Level and Dental Caries Experience in Children with Black Stained Teeth. 6. (PED-D1-6) Evaluation of Infection Control Knowledge Attitude and Practices. 7. (PED-D1-7) Prevalence of Periodontal Disease in Children with Diabetes Mellitus Type 1. 8. (PED- D2-1)Treating dental caries and other common oral dental diseases in children. 9. (PED- D2-2) Evaluating new techniques in management of dental caries and other dental diseases in children. 10. (PED- D2-3) Root canal irrigants and medications effect on non-vital primary teeth. 11. (PED-D9-1) Evaluation of dentin thickness and cleaning efficacy between manual and rotary systems in primary teeth. 12. (PED-D11-1) Revitalization of necrotic immature permanent anterior teeth with and without platelet rich fibrin. 13. (PED-D11-2) Evaluation of lesion sterilization and tissue repair technique with new formulation of hyaluronic acid as treatment option in non-vital teeth. 14. (PED-D11-3) Evaluation of different techniques of pulpotomy in management of inflamed pulps of primary teeth. 15. (PED- D11-4) The Impact of Omega-3 on Improving Sleep Quality of children. 	<p>Staff and Assistant staff members of pedodontic department.</p>	<p>2020</p>	<p>3 years</p> <p>Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.</p>

<p>25. Oral Medicine, Periodontology, Diagnosis and Oral Radiology. (OMPDR)</p>	<ol style="list-style-type: none"> 1. (OMPDR-D1-1)The frequency of periodontitis in end stage renal disease on hemodialysis in a sample of Egyptian population. 2. (OMPDR-D1-2) COVID-19 Pandemic and Subsequent Demand for E-Learning: Insights of Students' Perspective. 3. (OMPDR-D1-3) Orofacial pigmentation in Hemodialysis patients. 4. (OMPDR-D1-4)Prevalence of Oral lesions and salivary changes among renal patients undergoing hemodialysis. 5. (OMPDR-D1-5)Prevalence of periodontitis among adult Egyptians. 6. (OMPDR-D1-6) Oral mucormycosis in post-COVID-19 patients. 7. (OMPDR-D1-7) Possibility of age and gender determination radiographically: comparison between CBCT and panoramic view of maxillary sinuses . 8. (OMPDR-D1-8)The Prevalence of Soft Tissue Calcifications in the Head and Neck Region Using CBCT. 9. (OMPDR-D1-9) Cone beam computed tomography for evaluation of lingual canal. 10. (OMPDR-D3-1) Evaluation of free gingival connective tissue graft wall technique in intra-bony defects. 11. (OMPDR-D3-2) Evaluation of bone resorption after immediate post extraction implant placement. 12. (OMPDR-D3-3) Management of labial bone dehiscence with different methods and materials. 13. (OMPDR-D3-4) Comparative Evaluation of Coronally Advanced Flap Using Platelet-Rich Fibrin Membrane and Fresh Amniotic Membrane in Gingival Recession. 14. (OMPDR-D3-5) Efficacy of ankaferd blood stopper on healing after osseous grafting in the treatment of periodontal intrabony defects. 15. (OMPDR-D3-6) Comparison between PRP vs iPRF as an adjunct therapy in Infra-bony Pocket treatment. 16. (OMPDR-D3-7) Effect of Different crestal Sinus Lift Techniques for Implant Placement in the Posterior Maxilla of Deficient Height. 17. (OMPDR-D3-8) Evaluation of changes in esthetics and soft tissues following immediate implant. 18. (OMPDR-D4-1) Methods of enhancement of peri-implant mucosa. 	<p>Staff and Assistant staff members of Oral Medicine, Periodontology, Diagnosis and Oral Radiology department.</p>	<p>2020</p>	<p>3 years Each master or PhD researcher will sign a progress report every year from the supervisor and the head of the department showing the progression in the assigned research.</p>
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19. (OMPDR-D4-2) The use of different scaffolds in the treatment of alveolar ridge defects.
20. (OMPDR-D4-3) Measuring the effect of gingival fibroblasts in the treatment of intrabony defects.
21. (OMPDR-D4-4) Locally Applied Repositioned Hormones for Bone and Periodontal Tissue Engineering.
22. (OMPDR-D4-5) Drug-Loaded Chitosan Scaffolds for Periodontal Tissue Regeneration
23. (OMPDR-D4-6) Baghdadite a Calcium Silicate in Regenerative Dentistry and Medicine
24. (OMPDR-D5-1) Evaluation of the non-incised papilla surgical approach with and without allograft in treatment of intraosseous lesions.
25. (OMPDR-D6-1) Comparison between coronally advanced flap technique and modified tunneling technique utilizing perforated acellular dermal matrix in treatment of multiple gingival recessions.
26. (OMPDR-D6-2) Evaluation of lip repositioning for the treatment of excess gingival display with and without pretreatment with Botox.
27. (OMPDR-D6-3) Management of gingival black triangles by using injectable hyaluronic acid and injectable platelet rich fibrin.
28. (OMPDR-D6-4) Evaluation of Micro needling with vitamin C versus injectable Vitamin C for depigmentation in physiological gingival melanin hyperpigmentation.
29. (OMPDR-D7-1) Clinical and microbiological evaluation of antimicrobial photodynamic therapy as an adjunctive nonsurgical modality in patients with periodontitis.
30. (OMPDR-D8-1) Radiographic correlation in bilateral impacted lower third molars.
31. (OMPDR-D8-2) Linear measurements of CBCT superimposition.
32. (OMPDR-D8-3) Agreement between Panoramic Radiography and CBCT in Interpretation and Diagnosis of Jaw Lesions.
33. (OMPDR-D8-4) The anatomical location of the mental foramen and the prevalence of the anterior loop in the Egyptian population.

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| | <p>34. (OMPDR-D8-5) Guided Creeping Technique (GCT) as a Novel Minimally Invasive Approach in Treating Limited Gingival Recession</p> <p>35. (OMPDR-D9-1) Marginal bone loss around mini-dental implants of two different lengths placed in narrow single edentulous space.</p> <p>36. (OMPDR-D9-2) Influence of Different Decontamination Approaches on Bone Substitute Adhesion to Peri-Implantitis Affected Implant Surfaces.</p> <p>37. (OMPDR-D9-3) Clinical and radiographic evaluation of crestal ridge splitting versus osseodensification techniques for dental implant placement into the narrow alveolar ridge.</p> <p>38. (OMPDR-D9-4) One-Stage Ridge Splitting using piezoelectric surgery in the atrophic maxilla with simultaneous implant placement clinical and radiographic evaluation.</p> <p>39. (OMPDR-D9-5) Efficacy of PRF alone or mixed with 1% metformin gel in augmenting narrow ridge with split-crest technique and implant installation.</p> <p>40. (OMPDR-D9-6) Periodontal Osseous Wall Piezosplitting and Sequential Bone Expansion in Management of Localized Intra-Bony Defects with Wide Angulation.</p> <p>41. (OMPDR-D10-1) Effect of CBCT dose reduction on the mandibular canal visibility.</p> <p>42. (OMPDR-D10-2) Intrusion of maxillary molar roots into the maxillary sinus using cone beam computed tomography.</p> <p>43. (OMPDR-D10-3) Frontal Sinus Index Protocol for Gender Determination: by Cephalometry.</p> <p>44. (OMPDR-D10-4) Oral Candidiasis of COVID-19 Patients.</p> <p>45. (OMPDR-D10-5) Volumetric and linear assessment of maxillary, mandibular and zygomatic bone as donor sites for alveolar ridge augmentation using CBCT.</p> <p>46. (OMPDR-D10-6) Validation of different protocols of inferior alveolar canal tracing using cone beam computed tomography (CBCT).</p> | | | |
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47. (OMPDR-D10-7) CBCT 3d volume rendering noise and artifacts reduction in cases of impacted mandibular third molars.
48. (OMPDR-D11-1) Effect of diode laser combined with hydrodynamic acid gel in treatment of recurrent aphthous stomatitis in chitosan.
49. (OMPDR -D11-2) Evaluation of adjunctive effect of daily dietary supplements with omega 3 and propolis to non-surgical periodontal therapy.
50. (OMPDR-D11-3) A Comparative Study of The Effect of Demineralized Bone Matrix with and Without Low Level Laser Therapy on The Treatment of Periodontal Infra-Bony Defects.
51. (OMPDR-D11-4) Efficacy of beta tri calcium phosphate with &without I-PRF to preserve alveolar socket of extracted teeth affected periodontitis stage 4 grade C.
52. (OMPDR-D11-5) The use of concentrated rich plasma growth factors and tri calcium phosphate with immediate implant at sites of advanced periodontal destruction.
53. (OMPDR -D11-6) Clinical and radiographic evaluation of fresh socket grafting using beta-tri-calcium phosphate with collagen &PRF fibrin for receiving dental implants.
54. (OMPDR -D11-7) The effects of non-surgical periodontal therapy on glycemic control in diabetic patients.
55. (OMPDR -D11-8) Impact of non-surgical periodontal therapy on visfatin level in gingival crevicular fluid of type ii diabetic patients with periodontitis.
56. (OMPDR -D11-9) Salivary level of interleukin-17 in patients having atrophic and erosive oral lichen planus before and after treatment with topical steroids.
57. (OMPDR -D11-10) Clinical and Radiographical Evaluation of Dexamethasone and Formocresol alone or in Conjunction with Low-Level Laser Therapy during Pulpotomy of Primary Molars.
58. (OMPDR-D13-1) Histomorphometric and CBCT comparison of Osseo integration around orthodontic titanium miniscrews coated with different nanoparticles.



Follow up Form for Assistant Staff Member Academic year. () نموذج المتابعة الدورية لأعضاء الهيئة المعاونة

Researcher Name: ----- **Department:** -----

Research Title: -----

Date of thesis registration: ----- **Enrollment University:** -----

- **Aim of research:** Master PhD
- **Research type:** 1. Experimental 2. Observational 3. Out of research plan domains

Research domains:

1. Epidemiology and prevention. <input type="checkbox"/>	2. Management of children and adults with special needs. <input type="checkbox"/>	3. Reconstruction and rehabilitation. <input type="checkbox"/>
4. Tissue engineering. <input type="checkbox"/>	5. Diagnosis, prognosis and treatment outcome. <input type="checkbox"/>	6. Esthetics. <input type="checkbox"/>
7. Conservative modalities. <input type="checkbox"/>	8. Advanced technology and innovation. <input type="checkbox"/>	9. Mechanics, biomechanics and occlusion. <input type="checkbox"/>
10. Digital Dentistry. <input type="checkbox"/>	11. Host Modulation and Remedies <input type="checkbox"/>	
12. Biocompatibility, Toxicity, and Drug interaction. <input type="checkbox"/>	13. Nanotechnology. <input type="checkbox"/>	

Supervisors Report:

	Supervisor name	Title	Candidate Achievement	Signature
1				
2				
3				
4				

Researcher signature:

Date:

Head of Division/ Department



Department Periodic Report

(.....Year)

Department:.....

	Candidate Name and Research Title	Thesis type		Department approval date	Research Domain (D1-D13)	Research Taxonomy		
		M.Sc.	PhD			Experimental	Observational	Others
1								
2								
3								
4								
5								
6								
7								
8								

Quality coordinator

Head of division/ department