









تحديث الخطة البحثية كلية طب القم و الاستان، جامعة النهضة

Updated Research Plan
Faculty of Oral and Dental Medicine
Nahda University
2015-2020







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Introduction:

Faculty of Oral and Dental Medicine, Nahda University developed in 2007 and begins with 160 students and now has 1400 students. Many students are now graduating from the faculty and start their postgraduate studies. In turn, it was mandatory to design a research plan to find the areas of interest for each department to be followed. Accordingly, a research committee team work constituted from representatives of all scientific departments in the faculty develop research objectives matching with the goals of Nahda University health care sector research plan. In support for implementing the research plan is the qualified human expertise as well as infrastructure resources including labs and clinics. Furthermore, there are policies in the university encourage the research activities through financial incentive. The research plan of the faculty was updated with the agreement of Faculty Council in May 2016 to link the research with the community where Beni Suef City is characterized with herbs so an additional goal was formulated for application of herbal products in dental field.











Phases of planning:

- 1- A faculty research committee team work constituted from representatives of all scientific departments in the faculty revise Nahda University health care sector research plan to match its goals and ensure their achievements.
- 2- Through brain storming, SWOT analysis was done to search for strength and weak points in the internal environment and opportunities and threats or challenges in the external environment.
- 3- Vison and mission were settled for research plan.
- 4- Research plan goals were increased from 10 to 11 goals after addition of "application of herbal products in dental field" and then objectives were selected for each scientific department and action plans were developed to achieve these objectives.
- 5- Evaluation system were agreed upon to follow up the research plan where there is monitoring at departmental level then at faculty level.
- 6- Delivery of research begin in the scientific departments to achieve their research objectives that will collectively achieve the faculty research goals to finally achieve Nahda University research plan for health care sector.





SWOT Analysis:

Strengths:

- Qualified staff members in dental field recruited from well-known universities.
- Updated infrastructure facilities for research in dental field including labs and clinics.
- Presence of continuous education and professional development unit providing workshops to enhance the research skills as well as to update the knowledge for the most recent advances in dental field.
- Advanced IT structure facilitating storage and retrieval of data bases.
- Graduated junior assistant staff members willing to perform evidence based research.
- Continued increasing number of registered assistant staff members in postgraduate studies through cooperation with that increase the demand of research plan.

Weaknesses:

- Absence of Faculty of Oral and Dental Medicine, Nahda University postgraduate bylaws.
- Absence of Faculty of Oral and Dental Medicine, Nahda University periodic scientific dental journal.





- Lack of organized Faculty of Oral and Dental Medicine, Nahda
 University scientific dental conference.
- Increased workload for staff members may interfere with their flow of research production.
- Absence of trained team for how to get funded projects.
- Lack of life long contract for maintenance of dental equipment which may affect their durability.
- Deficiency of instruction guidelines for equipment usage which may affect its sustainability.
- No integration of research outcome in undergraduate educational curriculum.

Opportunities:

- Centralized well-equipped Research Center.
- Centralized animal house built on international standards.
- Established strong administrative university system.
- Rewarding university policies that encourage national and international publications as well as conferences in name of Nahda University.
- Actual support of Nahda University leaders for innovations from students or staff members.





- Central library full with research periodicals and recent textbooks.
- Central Professional Development Center that conduct advanced workshops for enhancement of research skills.
- Research in health problems is one of the top priorities in Academy of Scientific Research and Technology research plan.
- Availability of national and international funding agencies which provide financial support advanced research projects.
- Accessibility to scientific data bases offered by Supreme Council of Universities-Egypt.
- Enforcement of faculty members to get certain number of workshop for professional development including empowering research skills.
- National and international scientific conferences held by different faculties and research centers.
- Conducting certain number of nationally and internationally published research papers are compulsory for staff members to get a higher career post.
- Presence of Faculty of Postgraduate for Advanced Science, Beniswafe, University nearby Nahda University which is equipped with advanced research requirements; for instance; for nanotechnology research.

Threats or challenges:





- No policies for financial for support for scholarship junior researchers to complete their dental studies.
- Research is not linked to industry in dental field, in turn no beneficial from research outcome.
- No support from civil society organizations for research.
- Increased competitive researchers in dental field in other universities.
- Decreased appreciation of in depth basic research in dental field compared to applied one.
- No legation enforce professors to conduct scientific research.
- Limited access to international data bases through digital library.





Vision:

Being leaders in scientific research in dental field.

Mission:

Enhance research skills of staff members in Faculty of Oral and Dental Medicine, Nahda University to conduct community based, innovative, multidisciplinary and applicable high quality research in dental field.

Core Values:





- Respect research ethics
- Work in a team
- Innovate not imitate
- Mastering research skills

Matrix between Nahda University Health Care Sector and Faculty of Oral & Dental Medicine Research Plan Goals





	Nahda University	Faculty of Oral & Dental Medicine			
	Enhance scientific research skills for junior	I.1- Enhance scientific research skills for junior			
I	staff members of medical faculties in Nahda	staff members of Faculty of Oral and Dental			
	University	Medicine, Nahda University.			
II	Conduct community based applicable research	II.2. Conduct community based applicable			
11	solving common health problems	research solving common dental problems.			
III	Develop scientific research following ethical	III.3. Develop Dental scientific research			
111	guide lines	following ethical guide lines.			
IV	Encourage multidisciplinary scientific	IV.4. Encourage multidisciplinary scientific			
1 4	research between medical and allied faculties.	research between dental departments.			
V	Rewarding the innovative scientific research in	V.5. Rewarding the innovative scientific			
•	health care sector.	research in specialty of dental field.			
VI	Assess and invent new materials and medicine	VI.6. Assess and invent new materials and			
	for treating common health diseases.	medicine for treating common dental diseases.			
VII	Apply novel treatment and diagnostic	VII.7 Apply novel treatment and diagnostic			
V 11	modalities for common health diseases	modalities for common dental diseases			
VIII	Integrate advanced technology in health care	VIII.8 Integrate advanced technology in dental			
V 111	scientific research.	scientific research.			
IX	Link health care scientific research with	IX.9. Link dental scientific research with			
	industry.	industry.			
X	Incorporate health care scientific research	X.10. Incorporate dental scientific research			
	outcomes in educational curriculum.	outcomes in educational curriculum.			





Goals and departmental research objectives:

Goal I.1: Enhance scientific research skills for junior staff members of Faculty of Oral and Dental Medicine, Nahda University.

	Basic Dental	Prosthetic	Conservative	Oral and Maxillofacial	Orthodontics and	Oral medicine, Periodontology,
Departments	Sciences	Dentistry	Dentistry	Surgery	Pedodontics	Diagnosis and Oral Radiology
	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
Branches	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology					Oral Radiology
	BD I.1	PD I.1	CD I.1	OS I.1	OP I.1	MPD I.1
Research objectives	Enhance scientific research skills for junior staff members of basic dental Science Department	Enhance scientific research skills for junior staff members of Prosthetic Dentistry Department	Enhance scientific research skills for junior staff members of Conservative Dentistry Department	Enhance scientific research skills for junior staff members of Oral and Maxillofacial Surgery Department	Enhance scientific research skills for junior staff members of Orthodontics and Pedodontics Department	Enhance scientific research skills for junior staff members of Oral medicine, Periodontology, Diagnosis and Oral Radiology Department





Goal II.2: C	onduct commu	ınity based applicable rese	earch solving co	mmon dental proble	ms.	
	Basic Dental			Oral and	Orthodontics	Oral medicine,
Domontonomto	Sciences	Dunathatia Dantiatur	Conservative	Maxillofacial	and Pedodontics	Periodontology,
Departments		Prosthetic Dentistry	Dentistry	Surgery		Diagnosis and Oral
						Radiology
	Oral Biology	Removable Prosthodontics	Operative	Oral and Maxillofacial	Orthodontics	Oral Medicine
		Removable Frostilodomics	Dentistry	Surgery		
	Dental	Fixed Prosthodontics	Endodontics	Local and General	Pedodontics	Periodontics
Branches	Anatomy	1 Tacu I Tostilodolitics	Endodonties	Anesthesia		
	Oral	Dental Biomaterials	Occlusion	Implantology	Preventive and	Diagnosis
	Physiology				Community Dentistry	
	Oral Pathology				j	Oral Radiology
	BD II.2	PD II.2	CD II.2	OS II.2	OP II.2	MPD II.2
	Conduct	Conduct community based	Conduct	Conduct community	Conduct	Conduct community
	community based	applicable research solving	community	based applicable	community based	based applicable
Research	applicable	retention problems in partial	based applicable	research solving	applicable	research solving
objectives	research solving	and complete dentures as well	research solving	implantology	research solving	periodontal diseases
objectives	abnormalities	as fixed prosthesis.	caries problems	problems	crowding of teeth	and diagnose them
	in chronology and oral		and periapical		in children	through recent
	tumors.		pathosis			advances in oral
						radiology





Goal III.3: Develop Dental scientific research following ethical guide lines.

Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology
	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
Branches	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology					Oral Radiology
	BD III.3	PD III.3	CD III.3	OS III.3	OP III.3	MPD III.3
Research objectives	Develop Dental scientific research following ethical guide lines when dealing with experimental animals	well as human b		rch following ethical gu	iide lines when dealing	g with experimental animals as





Goal IV.4: Encourage multidisciplinary scientific research between dental departments.

	Basic Dental	Prosthetic	Conservative	Oral and	Orthodontics and	Oral medicine,
Departments	Sciences			Maxillofacial	Pedodontics	Periodontology, Diagnosis
		Dentistry	Dentistry	Surgery		and Oral Radiology
	Oral Biology	Removable	Operative	Oral and Maxillofacial	Orthodontics	Oral Medicine
		Prosthodontics	Dentistry	Surgery		
	Dental Anatomy	Fixed	Endodontics	Local and General	Pedodontics	Periodontics
Branches		Prosthodontics	Endodonties	Anesthesia		
	Oral Physiology	Dental	Occlusion	Implantology	Preventive and	Diagnosis
		Biomaterials			Community Dentistry	
	Oral Pathology					Oral Radiology
	BD IV.4	PD IV.4	CD IV.4	OS IV.4	OP IV.4	MPD IV.4
	Encourage	Encourage	Encourage	Encourage	Encourage	Encourage multidisciplinary
	multidisciplinary	multidisciplinary	multidisciplinary	multidisciplinary	multidisciplinary	scientific research between oral
Research	scientific	scientific	scientific	scientific research	scientific research	medicine, periodontics,
	research	research	research	between oral &	between	diagnosis and oral radiology
objectives	between oral	between	between	maxillofacial surgery	orthodontics,	
	biology and oral	removable, fixed	operative,	and implantology	pedodontics and	
	pathology	prosthesis and	endodontics and		preventive &	
		biomaterial	occlusion		community dentistry	





Goal V 5: Rewarding the innovative scientific research in specialty of dental field.

Donoutmonto	Basic Dental	Prosthetic	Conservative	Oral and Maxillofacial	Orthodontics and	Oral medicine, Periodontology,
Departments	Sciences	Dentistry	Dentistry	Surgery	Pedodontics	Diagnosis and Oral Radiology
	Oral Biology	Removable	Operative	Oral and Maxillofacial	Orthodontics	Oral Medicine
		Prosthodontics	Dentistry	Surgery		
	Dental	Fixed	Endodoutios	Local and General	Pedodontics	Periodontics
Branches	Anatomy Prosthodontics Endodontics	Anesthesia				
	Oral	Dental	Occlusion	Implantology	Preventive and	Diagnosis
	Physiology	Biomaterials			Community Dentistry	
	Oral Pathology					Oral Radiology
Research	BD V.5	PD V.5	CD V.5	OS V.5	OP V.5	MPD V.5
objectives	Rewarding one i	nnovative scientif	fic research, Mat	er or Doctoral thesis in spe	ecialty of dental field eve	ry year.





	Basic Dental						Oral	and	Orthodontics	Oral medicine, Periodontology
Departments	Sciences		Prosthetic Dentistry		Conserva Dentistry	tive	Maxillofacial Surgery		and Pedodontics	Diagnosis and Oral Radiology
	Oral Biolo	gy	Removable Prosthodor		Operative Dentistry		Oral Maxillofacial Surgery	and	Orthodontics	Oral Medicine
Branches	Dental Anatomy		Fixed Prosthodor	itics	Endodonti	ics	Local and G Anesthesia	eneral	Pedodontics	Periodontics
	Oral Physiology	y	Dental Biomateria	ls	Occlusion		Implantology		Preventive and Community Dentistry	Diagnosis
	Oral Patho	ology							·	Oral Radiology
	BD VI	.6	PD VI.	6	CD V	I.6	OS VI.6	·	OP VI.6	MPD VI.6
	Assess	and	Assess	and	Assess	and		invent	Assess and invent	Assess and invent new medicine for
Research objectives	invent materials medicine treating cancer	and for oral	materials prosthetic appliances retention	for	invent materials medicine treating caries periapical pathosis	new and for dental and	new material improvement dental implants	of	new materials for orthodontic appliances in children	treating oral lesions and new graftin materials for periodontal diseases





VII.7: Apply n	ovel treatment	and diagnostic	modalities for	common dental disc	eases	
Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology
	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
Branches	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology					Oral Radiology
	BD VII.7	PD VII.7	CD VII.7	OS VII.7	OP VII.7	MPD VII.7
	Apply novel	Apply novel	Apply novel	Apply novel	Apply novel	Apply novel treatment and
	treatment and	treatment and	treatment and	treatment and	treatment and	diagnostic modalities for treating
Research	diagnostic	diagnostic	diagnostic	diagnostic modalities	diagnostic modalities	oral lesions and periodontal
objectives	modalities for	modalities for	modalities for	for improvement of	for orthodontic	diseases.
objectives	oral cancer as	fabrication of	dental caries and	dental implants	problems in children	
	flow cytometry	dental	periapical			
	and real time	prosthesis	pathosis			
	PCR					





Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology
	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
Branches	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology				·	Oral Radiology
	BD VIII.8	PD VIII.8	CD VIII.8	OS VIII.8	OP VIII.8	MPD VIII.8
	Integrate	Integrate	Integrate advanced	Integrate	Integrate	Integrate advanced technology in oral
	advanced	advanced	technology in of	advanced	advanced	medicine and periodontal diseases
Research	technology in	technology in	dental caries	technology in	technology in	scientific research using cone beam
objectives	oral cancer	prosthetic	restoration and	insertion of dental	orthodontic	and other oral radiology digital
	therapy as	dentistry as	eradication of	implants.	diagnosis in	systems.
	targeting		periapical pathosis		children using dolphin software	





cancer stem	CAD/CAM		
cells	and milling		
	machine		

Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology	
	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine	
Branches	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics	
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis	
	Oral Pathology				j	Oral Radiology	
	BD IX.9	PD IX.9	CD IX.9	OS IX.9	OP IX.9	MPD IX.9	
Dagaanah	Link oral cancer	Link dental	Link dental caries	Link dental	Link orthodontic	Link oral lesions and periodontal	
Research	scientific	prosthetic	and periapical	implants research	in children	diseases research with	
objectives	research with	research with	pathosis research	with development	research with	development of new medication	
	researen with	1000th With	Patriosis 1000th	F			





new targeting	new adhesion	of new inlay and	integrating	new appliance	
therapeutic	materials.	grafting materials	materials	devices.	
agents.					

Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology
Branches	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology					Oral Radiology
	BD X.10	PD X.10	CD X.10	OS X.10	OP X.10	MPD X.10





Research	Incorporate stem	Incorporate	Incorporate recent	Incorporate recent	Incorporate recent	Incorporate cone beam and
objectives	cell scientific	improvement of	advances of dental	advances of dental	advances of orthodontic	recent advances of oral
	research outcomes	prosthetic retention	caries restoration	implants research	problem management	medicine and periodontal
	in oral biology	research outcomes in	and endodontic	outcomes in oral	research outcomes in	diseases research outcomes
	and oral	prosthetic	research outcomes	and maxillofacial	orthodontics and	in the curriculum
	pathology	curriculum.	in conservative	surgery	pedodontics curriculum	
	curriculum.		curriculum.	curriculum.		
	L					

Goal XI.11. Application of herbal products in dental field.

Departments	Basic Dental Sciences	Prosthetic Dentistry	Conservative Dentistry	Oral and Maxillofacial Surgery	Orthodontics and Pedodontics	Oral medicine, Periodontology, Diagnosis and Oral Radiology
Branches	Oral Biology	Removable Prosthodontics	Operative Dentistry	Oral and Maxillofacial Surgery	Orthodontics	Oral Medicine
	Dental Anatomy	Fixed Prosthodontics	Endodontics	Local and General Anesthesia	Pedodontics	Periodontics
	Oral Physiology	Dental Biomaterials	Occlusion	Implantology	Preventive and Community Dentistry	Diagnosis
	Oral Pathology					Oral Radiology
	BD XI.11	PD XI.11	CD XI.11	OS XI.11	OP XI.11	MPD XI.11





Research	Test the biological	Test the properties of	Apply the herbal	Apply the herbal	Apply the herbal	Apply the herbal products as
objectives	effects,	dental biomaterials	products in the	products in	products in restorative	inflammatory agents in
	biocompatibility	integrated with	restorative	sedations used in	materials used for	gingival inflammation and
	and side effects (if	herbal products and	materials for	anesthesia and	children or as anti-	periodontitis.
	present) resulted	study the possibility	conservative	augmentation	inflammatory agents	
	from application	of their incorporation	dentistry or in	materials around	around orthodontic	
	of herbs in	in prosthetic	endodontic filling	the implants.	appliances.	
	therapy of dental	appliances.	materials.			
	lesions.					