



Annual Report 2020-2021

September 01, 2020 to August 31, 2021

Scientific Research Unit, College of Medicine at Shaqra,
Shaqra University, Saudi Arabia

Message from the Director, Scientific Research Unit

Dear Respected Colleagues,
Greetings!!

I am delighted to share this report which captures the key notes and metrics related to research at the College of Medicine, Shaqra for the academic year 2020-2021 [1st September 2020 to 31st August 2021].

With support from internal and external collaborations, our faculties help spur advancements in a variety of diverse areas ranging from drug discovery and newer management in various ailments and it remains incredibly important that society realizes the benefits of our research that will support the Kingdom vision 2030.

I would like to thank His Excellency University President, Vice-Rectorate for Graduate and Scientific Studies, Deanship of Scientific Research, Dean and Vice-Deans at College of Medicine, Research and Development Committee, Local Institutional Review Board, faculty members and students for the support, contribution and cooperation towards the research unit.

Thanks and kind regards

**Dr. Aslam Pathan, PhD, MANF
Director, Scientific Research Unit
College of Medicine at Shaqra**

Research and Development Committee

Sr. No.	Name of the Member	
1.	Prof. Dr. Jamal Arif	Chairman
2.	Prof. Dr. Bahaa Hasan	Member
3.	Prof. Dr. Medhat Farag	Member
4.	Prof. Dr. Niaz Ali	Member
5.	Dr. Ali Darraj	Member
6.	Dr. Ghulam Mustafa	Member
7.	Dr. Muhammad Shabbir	Member
8.	Dr. Mohammad Imran	Member
9.	Dr. Aslam Pathan	Member

Local Institutional Review Board (Medical & Research Ethics)

Sr. No.	Name of the Member	
1.	Prof. Dr. Mohamed Atif	Chairman
2.	Prof. Dr. Bahaa Hasan	Member
3.	Prof. Dr. Medhat Farag	Member
4.	Prof. Dr. Jamal Arif	Member
5.	Dr. Ali Darraj	Member
6.	Dr. Aslam Pathan	Member

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1. Faculty Publications

Name of the Faculty	Title of the Publications	Publication Link	Month and Year of Publications
Abdulrahman Alshahrani	Influence of Spiritual Coping and Social Support on the Mental Health and Quality of Life of the Saudi Informal Caregivers of Patients with Stroke.	https://doi.org/10.1007/s10943-020-01081-w	September 2020
Dharmendra Sharma	Making MIC for you: utilizing PK and PD parameters.	https://actascientific.com/ASMI/pdf/ASMI-03-0694.pdf	September 2020
Mohammed Imran	Docking of FDA approved drugs targeting NSP-16, N-Protein and Main Protease of SARS-CoV-2 as dual Inhibitors.	https://biointerfaceresearch.com/wp-content/uploads/2020/09/20695837113.98489861.pdf	September 2020
Mohammad Tabish	Approaches for prevention and environmental management of novel COVID-19.	https://doi.org/10.1007/s11356-020-10640-3	September 2020
Medhat Farag	Protective Effects of Blackberry Juice against Cisplatin-Induced Testicular Toxicity in Rats: Up-Regulation of Bcl-2 Proteins and Androgen Receptors.	https://seronjihou.files.wordpress.com/2021/06/275584.pdf	October 2020
Mohammed Atif	Study on knowledge and attitude and practice of colorectal cancer among shaqra population of saudi arabia	http://doi.org/10.5281/zenodo.4084825	October 2020
Aqeel Ahmad	In Vitro Selective Suppression of Tumor Cells by an Oncolytic Peptide in Pancreatic Ductal Adenocarcinoma.	https://link.springer.com/content/pdf/10.1007/s10989-020-10131-6.pdf	November 2020
Feras Almarshad Jamal Arif	Structural perspective on molecular interaction of iga and igg with spike and envelope proteins of sars-cov-2 and its implications to non-specific immunity.	https://biointerfaceresearch.com/wp-content/uploads/2020/11/20695837113.1092310939.pdf	November 2020

Jamal Arif	Identification of various risk factors associated with breast cancer in north indian women	https://connectjournals.com/03896.2020.20.4491	November 2020
Mohammad Tabish	Formulation and ex vivo skin permeation of lidocaine HCl topical gels using dillenia (Dillenia indica L.) fruit gum.	https://doi.org/10.24275/rmiq/Mat1185	December 2020
Jalal Ali Bilal	Low and high birth weight in a hospital population in Sudan: An analysis of clinical cut-off values.	https://doi.org/10.1002/ijgo.13543	December 2020
Muhammad Ashraf, Himayat Ullah	Frequency and Relation of Hyperuricemia with Congestive Heart Failure	https://pjmhsonline.com/2020/oct_dec/788.pdf	December 2020
Aslam Pathan Abdulrahman Alshahrani Feras Almarshad	COVID-19 in the Shaqra, Saudi Arabia: prevalence and prevention strategies.	https://doi.org/10.37881/1.531	December 2020
Abdulrahman Alshahrani Jamal Arif Feras Almarshad	Robots in Cancer Surgery: A Boon or Bane	https://doi.org/10.4236/jct.2020.1112070	December 2020
Feras Almarshad Abdulrahman Alshahrani Jamal Arif	Computational Exploration of Dibenzo [a,l] Pyrene Interaction to DNA and its Bases: Possible Implications to Human Health	https://doi.org/10.33263/BRIAC114.1127211283	December 2020
Jamal Arif	Piperaquine-and Aspirin-Mediated Protective Role of HSP70 and HSP90 as Modes to Strengthen the Natural Immunity against Potent SARS-CoV-2.	https://doi.org/10.33263/BRIAC114.1236412379	January 2021
Muhammad Ashraf, Himayat Ullah	Hyponatremia with Portosystemic Encephalopathy	https://pjmhsonline.com/2021/jan/90.pdf	January 2021
Aqeel Ahmad Faisal Taufiq Aslam Pathan	The role of the multifunctional antimicrobial peptide melittin in gene delivery.	https://pubmed.ncbi.nlm.nih.gov/33450177/	January 2021
Abdulrahman Alshahrani	Horizontal Gaze Defect as a Result of Subcortical Stroke: Case Report and Review of the Literature.	https://doi.org/10.1159/000512405	February 2021

Aqeel Ahmad	Industrially important enzyme bovine liver catalase forms amyloid in the presence of 14-4-14 Gemini surfactant at physiological pH.	https://www.sciencedirect.com/science/article/pii/S0927775720315028	February 2021
Muhammad Ashraf, Himayat Ullah	Different Risk Factors for Ischemic Heart Disease.	https://pjmhsonline.com/2021/jan/92.pdf	March 2021
Aqeel Ahmad	Enhanced gene expression by a novel designed leucine zipper endosomolytic peptide	https://www.sciencedirect.com/science/article/pii/S0378517321003616	March 2021
Aqeel Ahmad	Solute carriers as potential oncodrivers or suppressors: their key functions in malignant tumor formation	https://pubmed.ncbi.nlm.nih.gov/33737072/	March 2021
Faisal Taufiq M. Bhilal babu Aqeel Ahmad Semmal Syed	The Adverse Effect of Mobile Phone Radiations on Dorsal Root Ganglion of Albino Rats	https://www.journaljpr.com/index.php/JPRI/article/view/31266	March 2021
Mohammad Tabish Feras Almarshad	Dietary Phytochemicals in Cancer Signalling Pathways: Role of miRNA targeting	https://doi.org/10.2174/0929867328666210420101605	April 2021
Aslam Pathan	Neurological complications and COVID-19: A literature review	https://doi.org/10.37881/1.611	April 2021
Aslam Pathan	Onasemnogene A beparylacetic acid: World's most expensive and approved therapy for spinal muscular atrophy	https://doi.org/10.37881/1.612	April 2021
Hosameldeen Shabana	Glucocorticoid-induced hyperglycemia in oncohematological patients	https://doi.org/10.4103/ejh.ejh_63_19	June 2021
Muhammad Shabbir	Association of HLA-B Gene Polymorphisms with Type 2 Diabetes in Pashtun Ethnic Population of Khyber Pakhtunkhwa, Pakistan	https://www.hindawi.com/journals/jdr/2021/6669731/	June 2021
Abdulrahman Alshahrani Feras Almarshad Jamal Arif	Correlation of COVID-19 with Parkinson's disease and life expectancy indicates female population predominance in future.	https://dx.doi.org/10.21276/ap.covid19.2021.10.1.3	June 2021

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Aslam Pathan			
Medhat Farag	Histopathological, histochemical and biochemical postmortem changes in induced fatal hypothermia in rats	https://doi.org/10.1080/20961790.2021.1886656	June 2021
Hosameldeen Shabana	Predicting the Need for ICU Admission in COVID-19 Patients Using XGBoost	https://techscience.com/cmc/v69n2/43880	July 2021
Dushad Ram	Psychoeducation: Need for an Alternative Generic, Destigmatized, and Patient-Friendly Term in Clinical Practice.	https://journals.sagepub.com/doi/full/10.1177/02537176211024133	July 2021
Mohammad Tabish	Alpha amylase inhibitory activity of katankateryadi kwatha (k. kwatha) in management of type 2 diabetes.	https://ijpsr.com/bft-article/alpha-amylase-inhibitory-activity-of-katankateryadi-kwatha-k-kwatha-in-management-of-type-2-diabetes/?view=fulltext	August 2021
Dushad Ram Muath Alammar	Positive Emotion Induction for Pain Associated with Rheumatoid Arthritis: A Quasi-Experimental Study.	https://www.jcdr.net/articles/PDF/15208/48914_CE[Ra1]_F[SK]_PF1(SC_OM)_PFA(SC_KM)_PN(KM).pdf	August 2021

2. Students Publications

Name of the Students	Title of the Publications	Publication Link	Month and Year of Publications
Abdulrahman Alhadlaq, Abdullah bin Sheha, Ahmed Alosaim	Study on knowledge and attitude and practice of colorectal cancer among shaqra population of saudi arabia	http://doi.org/10.5281/zenodo.4084825	October 2020
Khalid Aljammaz Abdulaziz Alrashed	Knowledge, Attitude, and Barriers Influencing Seasonal Influenza Vaccination Uptake.	https://www.hindawi.com/journals/cjidmm/2020/7653745/	October 2020
Khalid Aljammaz, Abdulaziz Alrashed	Irritable bowel syndrome: Epidemiology and risk factors in the adult Saudi population of the central region.	https://pubmed.ncbi.nlm.nih.gov/33047699/	October 2020

3. Research Projects

Title of Project	Prevalence of Vitamin D deficiency with Diabetic Nephropathy patients– Hail region, Kingdom Saudi Arabia
Instigators	Principle Investigator: Mohammad Adnan Kausar College of Medicine, University of Hail Co-Investigators: <ul style="list-style-type: none"> • Jamal Mohammad Arif, College of Medicine, Shaqra University, Shaqra
Duration	12 months
Budget	104000 SAR
Grant Authority	University of Hail
Grant Date	02/09/2020
Current status	Funded (ongoing project)

Title of Project	COVID-19: Molecular docking analysis of 10 plant products including <i>Coffea arabica</i> L. (Arabic coffee) for the prevention of coronavirus infection.
Instigators	Principle Investigator: Prof. Medhat Farag Co-Investigators: <ul style="list-style-type: none"> • Dr. Aslam Pathan College of Medicine, Shaqra University, Shaqra
Duration	12 months
Budget	59300 SAR
Grant Authority	Ministry of Education and DSR, Shaqra University
Grant Date	03/05/2021
Current status	Funded (ongoing project)

4. Ethical approvals (students projects)

Inward Number	Title of the research proposal	Principal Investigator	Approval Number
2020-12	Knowledge, attitude and practice of colorectal cancer among shaqra population of Saudi Arabia	Prof. Aymen Algadaa Department of Surgery College of Medicine Qassim University, Saudi Arabia	SUCOM/LIRB/ 2020-12
2020-13	Population and physicians satisfaction with the precautionary measures taken during COVID-19 pandemic	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-13
2020-14	Impact of mental health training for college teachers in Shaqra University in achieving the academic goals of student	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-14
2020-15	Relationships of study skills and family functioning in student of Shaqra University	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-15
2020-16	Relationships of impulsivity and aggressive driving behavior	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-16
2020-17	Levels of cognitive flexibility and resilience, and its relationships with academic self- efficacy in college student of Shaqra University	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-17
2020-18	Academic Expectations Stress and Academic Self-Efficacy in college students of Shaqra University	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-18
2020-19	The impact of law enforcement on dispensing antibiotics without prescription on primary care	Dr. Ali Darraj Department of Family Medicine	SUCOM/LIRB/ 2020-19

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	physicians	College of Medicine at Shaqra	
2020-20	Impact of English Proficiency Test Score on the Academic Performance of Medical students in MBBS program	Dr. Feras Almarshad Principal Investigator Department of Internal Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2020-20
2021-21	Level of awareness regarding covid-19 among laborers, maintenance and sanitary workers of shaqra university, Shaqra	Dr. Himayatullah Noor Islam Department of Internal Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2021-21
2021-22	The impact of online learning on medical and non-medical students during COVID-19 pandemic in Shaqra University, Saudi Arabia: A comparative study	Dr. Aqeel Ahmad Principal Investigator Department of Basic Medical Sciences College of Medicine at Shaqra	SUCOM/LIRB/ 2021-22
2021-23	Ischemic stroke after Oxford AztraZeneca vaccination; A threatening complication or mere temporal coincidence: Case Report Study	Dr. Muath Alammar Department of Family Medicine College of Medicine at Shaqra	SUCOM/LIRB/ 2021-23

5. Program Key Performance Indicators related to research

Performance indicators are important tools for assessing the quality of academic programs and monitoring their performance. They contribute to continuous development processes and decision making support.

The National Center for Academic Accreditation and Evaluation has identified 17 key performance indicators at the program level with addition of 03 customized KPIs. Out of 20 key performance indicators 03 key performance indicators is to measure the research potential in the program. Herewith we mentioned these research-related key performance indicators to ensure the quality of our program.



Standard	Code	Key Performance Indicators	Description
-5- Teaching staff	KPI-P-17	Percentage of publications of faculty members	Percentage of full-time faculty members who published at least one research during the year to total faculty members in the program
	KPI-P-17 for the academic year 2020-2021 20/43 = 46.51%		
	KPI-P-18	Rate of published research per faculty member	The average number of refereed and/or published research per each faculty member during the year (total number of refereed and/or published research to the total number of full-time or equivalent faculty members during the year)
	KPI-P-18 for the academic year 2020-2021 35/43 = 0.81		

Standard	Code	Key Performance Indicators	Description
-5- Teaching staff	KPI-P-19	Citations rate in referred journals per member faculty	The average number of citations in referred journals from published research per faculty member in the program (total number of citations in refereed journals from published research for full-time or equivalent faculty members to the total research published)
	KPI-P-19 for the academic year 2020-2021 $226/43 = 5.3$		

6. Article statistics

Articles published in standard databases during the academic year 2020-2021

PubMed	14	Web of Science	29
Scopus	25	Others	07

Thank You
Scientific Research Unit
College of Medicine at Shaqra

