



Annual Report 2021-2022

September 01, 2021 to August 31, 2022

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

Message from the Dean, College of Medicine at Shaqra

Dear Respected Colleagues,
Greetings!

The excellence in the research is the main objectives of the College of Medicine. Our faculty members collaborated with the clinicians and leading researchers worldwide for scholarly contribution and attainment of excellence across many areas of medical research.

I strongly encourage academic staff and medical students from basic and clinical sciences to attain and maintain research excellence to enhance the standard of healthcare in the KSA and throughout the world.

I extend my sincere thanks to 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. Feras Almarshad
Dean, College of Medicine at Shaqra

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 2021-2022 [1st September 2021 to 31st August 2022].

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

No	Name of the Faculty	Title of the Article	Article Link	Months and Year of Publication
1.	Dushad Ram	Cyclic vomiting syndrome responding to amisulpride – A case report	https://ijpp.com/cyclic-vomiting-syndrome-responding-to-amisulpride-a-case-report/	Sept 2021
2.	Mohammed Tabish	Hydrotrophy: Recent Advancements in Enhancement of Drug Solubility and Formulation Development	http://impactfactor.org/PDF/IJDDT/11/IJDDT_Vol11,Issue3,Article76.pdf	Sept 2021
3.	Niaz Ali, Feras Almarshad	Moxifloxacin and gemifloxacin mediates its antispasmodic profile via ATP-sensitive potassium channels: An in-vitro bioassay study	https://pubmed.ncbi.nlm.nih.gov/34836870/	Sept 2021
4.	Muath Alammar	Ischemic stroke after AstraZeneca (Covid-19) vaccination	https://pubmed.ncbi.nlm.nih.gov/34611009/	Oct 2021
5.	Medhat Farag, Aslam Pathan,	Literature review of 10 plants products for their anti-inflammatory, antioxidant, immunomodulatory, and antiviral properties	https://doi.org/10.37881/1.632	Dec 2021
6.	Aqeel Ahmad	The anticancer mechanism of human antimicrobial peptide LL-37	https://doi.org/10.37881/1.635	Dec 2021
7.	Dushad Ram	Psychosocial Burdens of Women in India: A Narrative Review	https://www.jscisociety.com/text.asp?2021/48/3/138/333837	Dec 2021
8.	Bahaa-Eldin Hasan	The Prevalence and Risk Factors for Symptomatic Dry Eye in Adults in Riyadh, Saudi Arabia	https://openophthalmologyjournal.com/VOLUME/15/PAGE/277/	Dec 2021
9.	Jalal Ali Bilal	Team-Based Learning and Lecture-Based Learning: Comparison of Sudanese Medical Students' Performance	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8713705/	Dec 2021

10.	Mohammed Tabish, Feras Almarshad	Dietary Phytochemicals in Cancer Signalling Pathways: Role of miRNA Targeting	http://dx.doi.org/10.2174/0929867328666210420101605	Dec 2021
11.	Dushad Ram	Sexual Dysfunction in Women with Nonpsychotic Disorders: A Cross-sectional Hospital-based Study	https://journals.sagepub.com/doi/full/10.1177/02537176211057399	Jan 2022
12.	Niaz Ali, Feras Almarshad	Insulinotropic Potential of Moxifloxacin and Gemifloxacin: An In Vivo Rabbits Model Study Followed by Randomized Phase I Clinical Trial	https://pubmed.ncbi.nlm.nih.gov/35203750/	Jan 2022
13.	Himayat Ullah, Ghulam Mustafa, Muhammad Ashraf, Niaz Ali, Muhammad Shabbier, Yasser Salem Nasrallah	Level of Awareness Regarding COVID-19 Among Laborers, Maintenance and Sanitary workers	https://doi.org/10.5335/0/pjmhs221621107	Feb 2022
14.	Jamal Arif	Identifying the alpha-glucosidase inhibitory potential of dietary phytochemicals against diabetes mellitus type 2 via molecular interactions and dynamics simulation	https://pubmed.ncbi.nlm.nih.gov/35818276/	Feb 2022
15.	Semmal Syed	Effect of methanolic extract of Dendrophthoe falcata leaves on acute hyperglycemic adult zebrafish	https://www.ejmanager.com/mnstemps/28/28-1644294392.pdf?t=1661773245	Feb 2022
16.	Dushad Ram	Recreational use of snake venom, an emerging trend in India – A case report and review of reports	https://ijpp.com/recreational-use-of-snake-venom-an-emerging-trend-in-india-a-case-report-and-review-of-reports/	Feb 2022
17.	Jamal Arif	Editorial: Role of Phytochemicals and Structural Analogs in Cancer Chemoprevention and Therapeutics	https://pubmed.ncbi.nlm.nih.gov/35370710/	March 2022

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18.	Jamal Arif	Identifying Natural Therapeutics against Diabetes via Inhibition of Dipeptidyl Peptidase 4: Molecular Docking and MD Simulation Study	https://www.ijper.org/article/1636	March 2022
19.	Dushad Ram	Panic disorder in general medical practice- A narrative review	https://pubmed.ncbi.nlm.nih.gov/35495823/	March 2022
20.	Niaz Ali	Attenuation of Scopolamine-Induced Amnesia via Cholinergic Modulation in Mice by Synthetic Curcumin Analogs	https://pubmed.ncbi.nlm.nih.gov/35458662/	April 2022
21.	Dushad Ram, Muath A Alammar	Level and Relationships of Life Satisfaction with Cognitive Flexibility and Resilience in IT Professionals	https://pubmed.ncbi.nlm.nih.gov/35991196/	April 2022
22.	Himayat Ullah, Muhammad Ashraf	Clinical and Biochemical Factors of Portosystemic Encephalopathy in Cirrhosis	https://doi.org/10.5335/0/pjmhs2216450	April 2022
23.	Himayat Ullah	High Sensitivity C-Reactive Protein Level and Ischemic Heart Disease	https://doi.org/10.5335/0/pjmhs2216434	April 2022
24.	Semmal Syed, Amer Ali Khan	An Efficient Framework for E-Learning System in Medical Education based on Internet of Things	https://tnsroindia.org.in/journals.html	April 2022
25.	Muath Alammar, Dushad Ram	Levels and Relationships of Impulsivity and Aggressive Driving in Shaqra, Saudi Arabia	https://doi.org/10.5993/AJHB.46.2.4	April 2022
26.	Jamal Arif, Aqeel Ahmad	Impact of online learning on medical and non-medical students during COVID-19 pandemic in Shaqra University, Saudi Arabia: A comparative Study	https://doi.org/10.54905/diss/v26i122/ms122e2123	April 2022
27.	Dushad Ram	Hunger Hormones in Adolescents with Disruptive Mood Dysregulation Disorder: An Exploratory Study	https://www.eurekaselect.com/article/122593	May 2022
28.	Dushad Ram	The Levels and Relationships of Family and Life Satisfaction Among Saud Arabian – A Cross Sectional Study During Covid 19 Pandemic	http://article.sapub.org/10.5923.j.ijpbs.20221201.02.html	May 2022

29.	Jalal Ali Bilal	Maternal Undernutrition and Low Birth Weight in a Tertiary Hospital in Sudan: A Cross-Sectional Study	https://www.frontiersin.org/articles/10.3389/fped.2022.927518/full	June 2022
30.	Dushad Ram	A Concept of “Mind fits” for Conversion Disorders: An Educational Dialect for Indian Patients and Their Families	https://journals.lww.com/jops/Fulltext/2022/01000/A_Concept_of_Mind_fits_for_Conversion_Disorders.14.aspx	June 2022
31.	Aqeel Ahmad	A comparative overview of SARS-CoV-2 and its variants of concern	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9448317/	July 2022
32.	Aqeel Ahmad	Metal nanoparticles: biomedical applications and their molecular mechanisms of toxicity	https://doi.org/10.1007/s11696-022-02351-5	July 2022
33.	Dushad Ram, Muath Alammar	Explanatory Models and their Relationship with Drug Attitude in Patients with Depression in South India	https://journals.sagepub.com/doi/full/10.1177/02537176221098329	July 2022
34.	Muath Alammar, Dushad Ram,	The Levels of Cognitive Flexibility and Cognitive Resilience and their Relationships with Academic Performance in College Students During the COVID-19 Pandemic	https://www.eurekaselect.com/article/124863	August 2022
35.	Aslam Pathan, Mohammed Tabish	Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019	https://pubmed.ncbi.nlm.nih.gov/35779567/	August 2022
36.	Aqeel Ahmad	Age–sex differences in the global burden of lower respiratory infections and risk factors, 1990–2019: results from the Global Burden of Disease Study 2019	https://www.thelancet.com/journals/laninf/article/PIIS1473-3099(22)00510-2/fulltext	August 2022

2. Students Publications

Name of the Students	Title of the Publications	Publication Link	Month and Year of Publications
Anas Abdulaziz Almujaali, Abdulaziz Abdullah Almatrafi, Anas Abdullah Aldael, Bahaa-Eldin Hasan Abdulhalim*	The Prevalence and Risk Factors for Symptomatic Dry Eye in Adults in Riyadh, Saudi Arabia	https://openophthamologyjournal.com/VOLUME/15/PAGE/277/	Dec 2021
Medhat Farag,* Aslam Pathan,* Nawaf Aldoaij	Literature review of 10 plants products for their anti-inflammatory, antioxidant, immunomodulatory, and antiviral properties	https://doi.org/10.37881/1.632	Dec 2021
Muath A. Alammar*, Dushad Ram*, Osman Abdulaziz Al-Arifi, Abdulaziz Talal alseleem, Abdullah Ibrahim Alsumayt	Levels and Relationships of Impulsivity and Aggressive Driving in Shaqra, Saudi Arabia	https://doi.org/10.5993/AJHB.46.2.4	April 2022
Mohammed Hajraf, Khaled Saqer Almutairi, Osama Almuqaiteeb, Muhannad Alashhab, Badr Sultan, Faisal Ahmad Alrashed, Mohammed Ibrahim, Fahd Salih Aldhafeeri, Saif Hammad Alruwaili, Abdulaziz Rabea Alanazi, Abdullah Mohammed Alobaidi,	Impact of online learning on medical and non-medical students during COVID-19 pandemic in Shaqra University, Saudi Arabia: A comparative Study	https://doi.org/10.54905/diss/v26i122/ms122e2123	April 2022

Jamal M Arif*, Aqeel Ahmad*			
Muath A Alammar*, Dushad Ram*, Khudhayr Nasser Albarragi and Abdullah Saad Alshahrani	The Levels of Cognitive Flexibility and Cognitive Resilience and their Relationships with Academic Performance in College Students During the COVID-19 Pandemic	https://www.eurekaselect.com/article/124863	August 2022
* Faculty supervisor			

3. Patents

Name of Faculty	Title of Patent	Authority
M. Tabish M. Bhilal Amer Ali Khan	A Novel Herbal Formulation for the Prevention and Management of Atherosclerosis	Australia
M. Tabish	A Novel Herbal Formulation Having Cardioprotective potential	Australia

4. Book/Book Chapter

Name of Faculty	Title	Publisher
Jamal Arif	Role of phytochemicals and structural analogs in cancer chemoprevention and therapeutics	Frontiers in Pharmacology March 2022

5. Ethical approvals

Inward Number	Title of the research proposal	Principal Investigator	Approval Number & Date
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 11/10/2021

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2022-23	Prevalence and risk factors of gastroesophageal reflux disease (GERD) in the Saudi Arabia	Abdulaziz Almatrafi Principal Investigator General Practitioner, Shaqra General Hospital, Saudi Arabia	SUCOM/LIRB/ 2022-23 09/03/2022
2022-24	Knowledge and Perception of lecturers regarding problem-based learning in Saudi Arabia, Shaqra University, 2022	Mohamed Hasan Principal Investigator Faculty of Medicine University of Gezira, Egypt	SUCOM/LIRB/ 2022-24 23/03/2022

6. 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 2021-2022 $18/40 = 45\%$		
	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 2021-2022 $36/40 = 0.9$		

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 2021-2022 $286/40 = \mathbf{7.1}$		

7. Article statistics

Articles published in standard databases during the academic year 2021-2022

PubMed	15	Web of Science	29
Scopus	26	Others	05

Thank You
Scientific Research Unit
College of Medicine at Shaqra

