



Annual Report 2022-2023

September 01, 2022 to August 31, 2023

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!

Excellence in research is the main objective of the College of Medicine. Our faculty members collaborated with 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 the College of Medicine, Research and Development Committee, 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 Head, 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 2022-2023 [1st September 2022 to 31st August 2023].

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 the College of Medicine, Research and Development Committee, faculty members, and students for the support, contribution, and cooperation towards the research unit.

Thanks, and kind regards

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

**Research and Development Committee
(2022-2023)**

Sr. No.	Name of the Members	
1.	Dr. Ghulam Mustafa	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. Muhammad Shabbir	Member
7.	Dr. Dushad Ram	Member
8.	Dr. Aslam Pathan	Member

Index

Sr. No.	Content	Page No.
1.	Faculty Publications	5
2.	Patents	12
3.	Book/Book Chapter	12
4.	Presentation at Conference	13
5.	Program Key Performance Indicators for Research	14
6.	Article Statistics	16

1. Faculty Publications

Sr. No.	Title of Publication	Faculty Name	Publication Date
1.	How Do Pediatricians Diagnose Asthma in Tertiary Care Hospitals? https://www.cureus.com/articles/110444-how-do-pediatricians-diagnose-asthma-in-tertiary-care-hospitals#!/	Ghulam Mustafa	Sept 2022
2.	Knowledge and Practice of Physicians about antibiotic resistance in Saudi Arabia after law enforcement on dispensing antibiotics without prescription: Findings from a cross-sectional study. https://www.jhidc.org/index.php/jhidc/article/view/378/353	Ali Darraj	Oct 2022
3.	Efficacy of Video-Assisted Teaching on Learning Needs of Children And Literacy of Attention Deficit Hyperactivity Disorder Among Teacher Trainees in South India. https://medicopublication.com/index.php/ijone/article/view/18677	Dushad Ram	Oct 2022
4.	pH-sensitive endosomolytic peptides in gene and drug delivery: Endosomal escape and current challenges. https://www.sciencedirect.com/science/article/abs/pii/S1773224722006979	Aqeel Ahmad	Oct 2022
5.	Supplementary suckling technique in infants less than 6 months of age with uncomplicated severe acute malnutrition: a prospective hospital-based study in armed conflict Yemen. https://link.springer.com/article/10.1186/s12887-022-03745-w	Jalal Bilal	Nov 2022
6.	Correlation of Clinically-Suspected Spontaneous Bacterial Peritonitis (SBP) With Laboratory-Confirmed SBP in Portosystemic Encephalopathy Patients. https://pubmed.ncbi.nlm.nih.gov/36479410/	Himayat Ullah	Nov 2022
7.	Neurocognitive Impact of ADHD in Children with Learning Disability: A Comparative Study. https://link.springer.com/article/10.1007/s12646-022-00682-7	Dushad Ram	Nov 2022
8.	Levels and relationships of Mindfulness, Distress Tolerance, and Severity of Dependence among tribals with alcohol use disorder among tribals in East India: A preliminary study. https://europepmc.org/article/ppr/ppr575408	Dushad Ram	Nov 2022

9.	The accuracy of point of care hba1c in screening for type 2 diabetes in asymptomatic adults: meta-analysis. https://zenodo.org/record/7308308	Ali Darraj	Nov 2022
10.	Road-map for conducting medical exams in resource limited countries during covid-19 pandemic. https://www.kmuj.kmu.edu.pk/article/view/22776	M. Shabbir, Muath Alammr, Niaz Ali	Nov 2022
11.	Molecular docking analysis of ten plant products for the inhibition of spike glycoprotein and prospective use as anti-COVID compounds. http://dx.doi.org/10.54085/ap.2022.11.2.35	Medhat Farag Aslam Pathan	Dec 2022
12.	Can we redefine vitamin d deficiency? https://www.gims.com.pk/index.php/journal/article/view/1239	M. Shabbir	Dec 2022
13.	Road-map for conducting medical exams in resource limited countries during covid-19 pandemic. https://www.kmuj.kmu.edu.pk/article/view/22776	M. Shabbir, Muath Alammr, Niaz Ali	Dec 2022
14.	Level and relationships of academic skills and family functions with academic performance during Covid 19 pandemic. https://ejnbn.springeropen.com/articles/10.1186/s41983-022-00592-5	Muath Alammr, Dushad Ram	Dec 2022
15.	Relationships of academic expectation stress & self-efficacy, efficacy for self-regulated learning with academic performance during Covid pandemic. https://rescon.jssuni.edu.in/ijhas/vol11/iss1/17/	Muath Alammr, Dushad Ram	Dec 2022
16.	Understanding suicide and its prevention in the Indian context: Mental Health Perspective. https://rescon.jssuni.edu.in/ijhas/vol11/iss1/19/	Dushad Ram, Muath Alammr	Dec 2022
17.	Global mortality associated with 33 bacterial pathogens in 2019: a systematic analysis for the Global Burden of Disease Study 2019. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(22)02185-7/fulltext	Aqeel Ahmad, M. Tabish	Dec 2022
18.	The gaps between the guidelines & practices of pediatricians for managing asthma at tertiary care centers in pakistan. https://www.hivnursing.net/index.php/hiv/article/view/1470	Ghulam Mustafa	Jan 2023

19.	An E-Learning Platform for Medical Education based on Internet of Things and Agent Based Systems. http://www.tnsroindia.org.in/JOURNAL/issue76/ISSUE%2076%20FEBRUARY%202023%20-%20FULL%20TEXT%20PART%20%2001.pdf	Amer Ali Khan	Jan 2023
20.	A Nanotechnology-Based Approach to Biosensor Application in Current Diabetes Management Practices. https://www.mdpi.com/2079-4991/13/5/867	Ali Darraj, Md. Tabish	Feb 2023
21.	Comparison of point of care hba1c analytical systems against laboratory analysis among type 2 diabetes patients in primary health centers in riyadh. https://www.hivnursing.net/index.php/hiv/article/view/1643	Ali Darraj, Ghulam Mustafa, Md. Tabish	Feb 2023
22.	Attitude And Perception Of Health Professional Students Toward Inter-Professional Education In Riyadh: Cross-Sectional Study. https://medforum.pk/article/9-attitude-and-perception-of-health-professional-students-toward-inter-professional-education-in-riyadh-cross-sectional-study	Ali Darraj	Feb 2023
23.	Short-Term Vs. Long-Term Glucocorticoids in COPD Exacerbation: A Comparative Efficacy Study. https://pjmhsonline.com/index.php/pjmhs/article/view/4343	M. Shabbir	Feb 2023
24.	Burden of tracheal, bronchus, and lung cancer in North Africa and Middle East countries, 1990 to 2019: Results from the GBD study 2019. https://www.frontiersin.org/journals/oncology/articles/10.3389/fonc.2022.1098218/full	Aqeel Ahmad	Feb 2023
25.	Molecular insight into the modulation of ovalbumin fibrillation by allura red dye at acidic pH. https://www.sciencedirect.com/science/article/abs/pii/S0141813023001307	Aqeel Ahmad	March 2023
26.	Blood Pressure Control and Prescription Pattern of Antihypertensive Drugs in Adherence to the 2020 International Society of Hypertension (ISH) Global Hypertension Practice Guidelines in Saudi Arabia: A Retrospective Study. https://pubmed.ncbi.nlm.nih.gov/36938155/	Feras Almarshad	March 2023
27.	Oral Antispasticity Drugs and Non-Progressive Neurological Diseases: A Meta-Analysis on Safety and Efficacy. https://pubmed.ncbi.nlm.nih.gov/37313540/	Abdulrahman Alshahrani	March 2023

**College of Medicine, Shaqra
Scientific Research Unit
Annual Report (2022-2023)**



28.	The Effects of Moxifloxacin and Gemifloxacin on the ECG Morphology in Healthy Volunteers: A Phase 1 Randomized Clinical Trial. https://pubmed.ncbi.nlm.nih.gov/37046452/	Niaz Ali Feras Almarshad	March 2023
29.	The Psychometric Appraisal of Arabic Interprofessional Attitudes Scale https://medforum.pk/article/1the-psychometric-appraisal-of-arabic-interprofessional-attitudes-scale	Ali Darraj	March 2023
30.	Prevalence, Trends, and Harm Perception Associated with E-Cigarettes and Vaping among Adolescents in Saudi Arabia. https://www.fortunejournals.com/abstract/prevalence-trends-and-harm-perception-associated-with-ecigarettes-and-vaping-among-adolescents-in-saudi-arabia-3948.html	Ali Darraj, Muath Alammar	March 2023
31.	Reliable Assessment of Short Courses in the Medical Curriculum. https://hpej.net/journals/medicaleducator/article/view/2566	M. Shabbir	March 2023
32.	Diagnostic approach and use of CTPA in patients with suspected pulmonary embolism in an emergency department in Saudi Arabia. https://www.bloodresearch.or.kr/journal/view.html?doi=10.5045/br.2023.2023007	Feras Almarshad, Dushad Ram	March 2023
33.	The 2022 Pakistani references from birth to 60 months for length/height, weight and body mass index. https://onlinelibrary.wiley.com/doi/full/10.1111/apa.16770	Ghulam Mustafa	March 2023
34.	Quantitative analysis of favipiravir in bulk and pharmaceutical dosage forms using UV visible Spectrophotometer. https://jmpas.com/download/article/1681926108JMPAS_MARCH-APRIL_2023.pdf	Semmal Syed	March 2023
35.	Use of the Anatomage Virtual Table in Medical Education and as a Diagnostic Tool: An Integrative Review. https://www.cureus.com/articles/142653-use-of-the-anatmage-virtual-table-in-medical-education-and-as-a-diagnostic-tool-an-integrative-review#!/	Mohamed Atef	March 2023
36.	Relation Of Low Ascitic Fluid Proteins With Spontaneous Bacterial Peritonitis (SBP) In Patients With Portosystemic Encephalopathy – A Comparative Study. https://medforum.pk/article/4relation-of-low-ascitic-fluid-	Himayat Ullah Ghulam Mustafa	March 2023

**College of Medicine, Shaqra
Scientific Research Unit
Annual Report (2022-2023)**



	proteins-with-spontaneous-bacterial-peritonitis-sbp-in-patients-with-portosystemic-encephalopathy-a-comparative-study		
37.	A Transfer Learning Approach Based on Ultrasound Images for Liver Cancer Detection. https://www.techscience.com/cmc/v75n3/52603	Hosameldeen Shabana	April 2023
38.	Effect Of Educational Program On Doctors Knowledge And Practice Of Oxygen Therapy. https://medforum.pk/article/10effect-of-educational-program-on-doctors39-knowledge-and-practice-of-oxygen-therapy	Ghulam Mustafa	April 2023
39.	Attitudes and practices of physicians toward law enforcement on dispensing antibiotics without prescription antibiotics: Findings from a cross-sectional survey. https://journals.lww.com/jfmpc/Fulltext/2023/04000/Attitudes_and_practices_of_physicians_toward_law.15.aspx	Ali Darraj, Md. Tabish	April 2023
40.	Neuropharmacology of Levetiracetam as Anti-epileptic Medication. https://doi.org/10.37881/1.731	Aslam Pathan	April 2023
41.	Platelet Rich Plasma and Adipose-Derived Mesenchymal Stem Cells Mitigate Methotrexate-Induced Nephrotoxicity in Rat via Nrf2/Ppary/HO-1 and NF-Kb/Keap1/Caspase-3 Signaling Pathways: Oxidative Stress and Apoptosis Interplay. https://www.mdpi.com/2305-6304/11/5/398	Medhat Farag	April 2023
42.	Comparison of efficacy of tci monotherapy with tci and narrow band uvb in vitiligo: a hospital based study. https://ejmhms.com/index.php/mhs/article/view/152	Bhaskar Paul, Yasser Saleh	April 2023
43.	Lung Function Parameters Of Healthy, Non-Smoking Young People And Employees At Shaqra University, Shaqra. https://medforum.pk/article/26lung-function-parameters-of-healthy-non-smoking-young-people-and-employees-at-shaqra-university-shaqra	Ghulam Mustafa, Himayat Ullah, Altaf Banday	May 2023
44.	Comparison Between Nurses, Paramedics, and Doctors to Benefit from an Educational Intervention Related to Oxygen Therapy. https://www.jptcp.com/index.php/jptcp/article/view/1829/1934	Ghulam Mustafa	May 2023
45.	Effect of an Educational Program on Nurses' Knowledge and Practice of Oxygen Therapy. https://www.cureus.com/articles/144788-effect-of-an-educational-program-on-nurses-knowledge-and-practice-of-	Ghulam Mustafa	May 2023

**College of Medicine, Shaqra
Scientific Research Unit
Annual Report (2022-2023)**



	oxygen-therapy#!		
46.	Novel analytical method development for estimation of Remdesivir in bulk by using Bromocresol purple- Acid dye. https://www.eurchembull.com/uploads/paper/8d7ec26276f9642b1faa16c21b40d26f.pdf	Semmal Syed	May 2023
47.	Effect of air pollution on disease burden, mortality, and life expectancy in North Africa and the Middle East: a systematic analysis for the Global Burden of Disease Study 2019. https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(23)00053-0/fulltext	Aqeel Ahmad	May 2023
48.	Treatment burden, not health risk attitude associated with adherence in patients with mental illness in South India. https://rescon.jssuni.edu.in/ijhas/vol11/iss3/3/	Dushad Ram	June 2023
49.	Hypokalemia as a responsible factor related with the severity of hepatic encephalopathy: a wide multinational cross-sectional study. https://journals.lww.com/annals-of-medicine-and-surgery/fulltext/2023/06000/hypokalemia_as_a_responsible_factor_or_related_with.23.aspx	Himayat Ullah, Hossam Shabana, Ghulam Mustafa, Feras Almarshad, Abdulrahman Alshahrani	June 2023
50.	Global, regional, and national burden of diabetes from 1990 to 2021, with projections of prevalence to 2050: a systematic analysis for the Global Burden of Disease Study 2021. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(23)01301-6/fulltext	Aqeel Ahmad, M. Tabish	June 2023
51.	Global, regional, and national prevalence and mortality burden of sickle cell disease, 2000–2021: a systematic analysis from the Global Burden of Disease Study 2021. https://www.thelancet.com/journals/lanhae/article/PIIS2352-3026(23)00118-7/fulltext	Aqeel Ahmad, Ghulam Mustafa	June 2023
52.	Influence Of Body Mass Index (BMI) On Pulmonary Function Test Values Among Employees & Young People Of Shaqra University. https://medforum.pk/article/5influence-of-body-mass-index-bmi-on-pulmonary-function-test-values-among-employees-young-people-of-shaqra-university	Ghulam Mustafa, Himayat Ullah	June 2023
53.	Interaction between anti-COVID compounds across spike protein subunits influences their inhibition potential. http://dx.doi.org/10.54085/ap.2023.12.1.27	Medhat Farag Aslam Pathan	June 2023

54.	The burden of metabolic risk factors in North Africa and the Middle East, 1990–2019: findings from the Global Burden of Disease Study. https://www.thelancet.com/journals/eclinm/article/PIIS2589-5370(23)00199-2/fulltext	M. Tabish	June 2023
55.	Simultaneous Detection of Influenza A/B, Respiratory Syncytial Virus, and SARS-CoV-2 in Nasopharyngeal Swabs by One-Tube Multiplex Reverse Transcription Polymerase Chain Reaction. https://www.mdpi.com/2414-6366/8/6/326	Altaf Banday	June 2023
56.	Hand Hygiene Awareness and Knowledge Among Healthcare Personnel in The Dawadmi Region of Saudi Arabia: A Cross-Sectional Survey Study. https://phcogj.com/article/2042	Semmal Syed, Bhaskaran Ashokan	June 2023
57.	Global, regional, and national burden of allergic disorders and their risk factors in 204 countries and territories, from 1990 to 2019: A systematic analysis for the Global Burden of Disease Study 2019. https://pubmed.ncbi.nlm.nih.gov/37431853/	Ghulam Mustafa	July 2023
58.	Prevalence, years lived with disability, and trends in anaemia burden by severity and cause, 1990–2021: findings from the Global Burden of Disease Study 2021. https://www.sciencedirect.com/science/article/pii/S2352302623001606	Aslam Pathan Aqeel Ahmad Ghulam Mustafa	July 2023
59.	Social Psychiatry amid Biological Psychiatry and Indian Perspective. https://journals.lww.com/ijsp/abstract/9000/social_psychiatry_amid_biological_psychiatry_and.99993.aspx	Dushad Ram	July 2023
60.	A Review of Multidisciplinary Rehabilitation Techniques for Patients Suffering from Parkinson's Disease. https://jrtd.com/index.php/journal/article/view/976	Semmal Syed	July 2023
61.	Understanding the mechanistic potential of plant based phytochemicals in management of postmenopausal osteoporosis. https://www.sciencedirect.com/science/article/pii/S0753332223006406?via%3Dihub	Semmal Syed, Bhaskaran Ashokan	July 2023
62.	Cellular, Molecular, Pharmacological, and Nano-Formulation Aspects of Thymoquinone-A Potent Natural Antiviral Agent. https://www.mdpi.com/1420-3049/28/14/5435	M. Tabish	July 2023

63.	Prevalence and associated factors of stunting and thinness among adolescent Sudanese schoolchildren: a cross-sectional study. https://pubmed.ncbi.nlm.nih.gov/37565333/	Jalal Bilal	Aug 2023
64.	Risk evaluation of thrombo-embolism during stroke in asian patients: need for pharmacological thromboprophylaxis. https://www.jpmi.org.pk/index.php/jpmi/article/view/3232/3347	M. Shabbir, Abdulrahman Alshahrani, Muath Alammr, Ambreen Liaqat	Aug 2023
65.	Global, regional, and national burden of meningitis and its aetiologies, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. https://www.thelancet.com/journals/laneur/article/PIIS1474-4422(23)00195-3/fulltext	Ghulam Mustafa Aqeel Ahmad	Aug 2023
66.	Neurological adverse effects after SARS-CoV-2 vaccinations: Etiology should be warranted. https://doi.org/10.37881/1.821	Aslam Pathan	Aug 2023
67.	Stroke and migraine are leading neurological conditions on a global scale. https://doi.org/10.37881/1.822	Aslam Pathan	Aug 2023

2. Patents

Faculty Name	Title	Authority
M. Tabish	Polyherbal formulation for diabetes mellitus	India

3. Book/Book Chapter

Faculty Name	Title	Publication Date
M. Tabish, Ali Darraj	Quantum Dots in Biomedical Applications: Recent Advancements and Future Prospects.ECG https://link.springer.com/chapter/10.1007/978-3-031-28263-8_7	March 2023 [Springer]
Semmal Syed Meerasa, Aqeel Ahmad	Psychoendoimmunoneurology: Human Brain and Inflammation: Psychoendoimmunoneurology	July 2023 [Scholars' Press]
Ghulam	How to take care of Children (Urdu)	December 2022

Mustafa		
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4. Presentation at Conference

The following abstracts are presented at the Second Medical Research Day-2023, Organized by the College of Medicine, Shaqra at Shaqra University, Saudi Arabia on 04th May 2023.

Sr. No.	Title of the Abstract (Oral Presentation)	Students & Faculty Names
1.	Molecular docking analysis of ten plant products for the inhibition of spike glycoprotein and prospective use as anti-COVID compounds.	Nawaf Aldojj, Medhat Farag, Aslam Pathan
2.	The general knowledge about first aid among students at Shaqra University.	Muteb Almutairi, Amer Ali Khan

Sr. No.	Title of the Abstract (Poster Presentation)	Students & Faculty Names
1.	Prevalence of hypothyroidism among adults in Shaqra	Basil Ali Almutairi, Abdulilah Aldosar, Amer Ali Khan
2.	Awareness of varicose veins in the Shaqra region	Turki Albogami, Abdulaziz Alfarhan, Khalid Almutairi, Medhat Farag
3.	The impact of law enforcement on dispensing antibiotics without a prescription on primary care physicians	Fouad Alshubayshiri, Ali Darraj
4.	Levels of awareness about hyperthyroidism among adult population of the Shaqra region: A cross-sectional survey	Yasser Aljtha, Abdulaziz Alruways, Marran Aldawsari, Shafi Alaklabi, Saad Almorshedi, Niaz Ali
5.	Hypokalemia as a responsible factor of hepatic encephalopathy and its relation with the severity of encephalopathy: A wide multinational study	Abdulmajeed Alwadai, Himayat Ullah, Hossam Shabana, Ghulam Mustafa
6.	Internet use and its association with health and academic performance among medical students at Shaqra University, KSA	Khalid Alburaiten, Ibrahim Althaqib, Jamal Arif, Aqeel Ahmad
7.	The awareness and knowledge of retinopathy of prematurely	Bahaa-Eldin Abdulhalim

among pediatricians in Saudi Arabia	
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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 the addition of 03 customized KPIs. Out of 20 key performance indicators, 03 key performance indicators measure the research potential in the program. Herewith we mentioned these research-related key performance indicators to ensure the quality of our program.



Code	Key Performance Indicator	Description
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 2022-2023= 24/42 = 57.14%		

Code	Key Performance Indicator	Description
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 2022-2023= 67/42 = 1.60		

Code	Key Performance Indicator	Description
KPI-P-19	Citations rate in referred journals per faculty member.	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 2022-2023= 625/67 = 9.3		

6. Article Statistics

Articles published in standard databases during the academic year 2022-2023

PubMed	30	Web of Science	41
Scopus	43	Others	16

Thank You
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