Kingdom of Saudi Arabia Ministry of Education King Khalid University College of Pharmacy



المملكة العربية السعودية وزارة التعليم جامعة الملك خالد كلية الصيدلة

Vice Deanship for Research & Graduate Studies

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وكالة البحث والدراسات العليا

## **Research Operation Plan Report**

# **College of Pharmacy**

### 1445 H

### Prepared by

Vice Deanship for Research and Postgraduate Studies (VDRPS)



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#### College of Pharmacy Research Activities and Accomplishments:

Activities	Descriptions	Status				
PharmD Program-Level Research Activities and Accomplishments						
<ul> <li>The Research Design Seminar course (1+2 credit) has been introduced in the New PharmD curriculum.</li> </ul>	This course has been proposed, and its CS has been resolved. It is proposed for the new PharmD program curriculum.	Approved				
Colle	ge-Level Research Activities and Accomplishments					
<ul> <li>The college successfully hosted the International</li> <li>Conference on Complementary Medicine –</li> <li>Opportunities and Challenges.</li> </ul>	The college successfully hosted the International Conference on Complementary Medicine – Opportunities and Challenges, bringing together experts and researchers from around the world to discuss advancements in the field.	Achieved				
The proposal for the establishment of the Animal House has been submitted.	The pharmacology department had proposed the establishment of an animal house on the Al Faraa campus. The educational services committee and Dean approved the proposal and sent it to the University administration for final approval.	Submitted				
Instruments for the Cell Culture Lab.	Instruments for the Cell Culture, including a biosafety cabinet and an incubator, have been brought to the college to enhance research and development capabilities and located under the responsibility of the department of pharmacology.	Achieved				
<ul> <li>Inspiring Pharmacist Day 2024: Advancing Research and Showcasing Innovation through Posters.</li> </ul>	Inspiring Pharmacist Day 2023 was a remarkable event highlighting pharmacists' vital role in research and innovation. The day featured an engaging poster exhibition where students and professionals presented their cutting-edge research and innovative projects. Attendees participated in lively discussions, received valuable feedback from experts, and collaborated with peers on various topics. The event successfully inspired the next generation of pharmacists, promoting a culture of excellence in scientific discovery and professional growth within the pharmacy field. It was a day that celebrated the impact of research and the innovative spirit of the pharmacy community.	Achieved				
Outstanding Achievements: Female Faculty Members Honored with Promising Researcher and Abundance of Research Awards at King Khalid University.	Three female faculty members received three prestigious awards during the annual recognition event at King Khalid University in 1445 H. These awards included the Promising Researcher Award and the Abundance of Research Award, highlighting their exceptional contributions to research and academic excellence.	Achieved				
Graduate	Program-Level Research Activities and Accomplishments					
All the students participate in the Poster and Extracurricular Activity Day for postgraduate students, where posters are presented.	The Poster and Extracurricular Activity Day for postgraduate students is an event dedicated to showcasing the research efforts and professional development of students. It provides a platform where students present their research posters, highlighting their findings, methodologies, and contributions to their respective fields.	Achieved				
Empowering Postgraduates: Professional Skills Lectures for Academic and Career Success.	Several professional skills lectures were offered to support postgraduate students' development. These lectures included "Stressors and Coping Strategies," which provided valuable insights into managing academic and personal pressures effectively. The "Customer Relationship Management" lecture focused on the importance of building and maintaining professional relationships, a key skill in both academia and industry.	Achieved				

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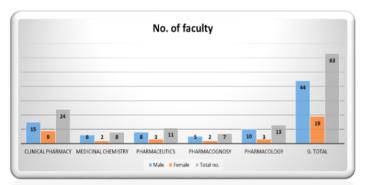
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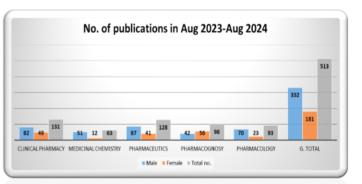
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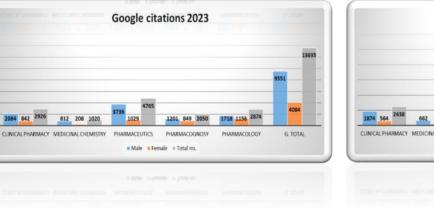
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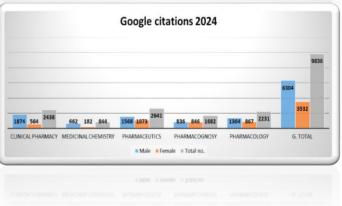
#### Research Statistics in 1445 H

	Department	Clinical Pharmacy	Medicinal Chemistry	Pharmaceutics	Pharmacognosy	Pharmacology	Total
	Male	15	6	8	5	10	44
No. of Faculty	Female	9	2	3	2	3	19
	Total no.	24	8	11	7	13	63
	Department	Clinical Pharmacy	Medicinal Chemistry	Pharmaceutics	Pharmacognosy	Pharmacology	Total
No. of	Male	82	51	87	42	70	332
publications in	Female	49	12	41	56	23	181
23-24	Total no.	131	63	128	98	93	513
	Department	Clinical Pharmacy	Medicinal Chemistry	Pharmaceutics	Pharmacognosy	Pharmacology	Total
	Male	2084	812	3736	1201	1718	9551
Google Scholar	Female	842	208	1029	849	1156	4084
citations 2023	Total no.	2926	1020	4765	2050	2874	13635
	Department	Clinical Pharmacy	Medicinal Chemistry	Pharmaceutics	Pharmacognosy	Pharmacology	Total
	Male	1874	662	1568	836	1364	6304
Google Scholar	Female	564	182	1073	846	867	3532
citations 2024	Total no.	2438	844	2641	1682	2231	9836









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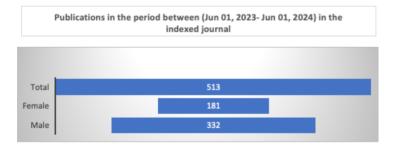


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#### Key Performance Indicators (KPIs) Overview and Summary

- 1- KPI-09: 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 institution):
  - Percentage of full-time faculty members who published at least one research during the year to total faculty members in the institution 96.6 %.
  - Percentage of full-time **Female** faculty members who published at least one research during the year to total faculty members in the institution: 100%.
  - Percentage of full-time **Male** faculty members who published at least one research during the year to total faculty members in the institution: 95%.
- 2- KPI-10: 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)
  - Total number of refereed and/or published research is 513 articles and the total number of faculty is 63: 513/63= 8.1:1 publications/Faculty members.
  - Published Rate per Female faculty member: 181/19= 9.5:1
  - Published Rate per **Male** faculty member: 332/44= 7.5:1



- 3- KPI-11: Citations rate in refereed journals per faculty member (The average number of citations in refereed journals from published research per faculty member in the institution (total number of citations in refereed journals from published research for full-time or equivalent faculty members to the total research published):
  - Total number of citations in refereed journals from published research for full-time or equivalent faculty members 13635/513= 26.5:1
     Citations/Published research.
  - Total number of citations in refereed journals from published research for full-time or equivalent faculty members (Female): 4084/181=
     22.5: 1
  - Total number of citations in refereed journals from published research for full-time or equivalent faculty members (Male): 9551/332=
     28.7:1
- 4- KPI-15: Average score of both research course in the program and the obligatory research rotation for the Pharmacy intern students.

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- The actual score of 95.05% is quite close to both the internal benchmarks, indicating that the program is effectively preparing students for their research rotations.

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#### Comprehensive Analysis of Key Performance Indicators (KPIs)

#### KPI-09: Percentage of Publications of Faculty members

Program KP	NCAAA KPI Reference		Standard-4 KPI-P-9						
Program KPI reference		КРІ-Р-09							
КР	1	Percentage of publications of faculty members							
	_	Actual	Target	Internal Benchmark	External Benchmark	Target			
Periodical N	leasurement	(1445 AH)	(1445 AH)	(1444 AH)	(1445 AH)	(1446 AH)			
	Male:	95%	98%	97.2%	98%	97%			
Annual	Female:	100%	98%	95%	56%	97%			
	Overall:	96.61%	98%	96%	86.6%	97%			
	100 80 60 40 20 0	9	ntage of publ 66.61%		1445 AH)				
ull-time faculty ate is 100% an of 98%, it aligns	members who pu d the male faculty with the internal l	iblished at least o y publication rate benchmark (96%)	ne research pap e is 95%. While ). Female faculty	er during the year is 96.619 the overall rate is approxir members achieved except	n research publications. Th % (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi	ulty publicatio rget benchmar			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns vhile male facu	members who pu d the male faculty	iblished at least o y publication rate benchmark (96%)	ne research pap e is 95%. While ). Female faculty	er during the year is 96.619 the overall rate is approxir members achieved except	% (57 out of 59). Female fac nately very closer to the ta	ulty publication rget benchmar			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns vhile male facu <b>itrengths</b>	members who pu d the male faculty with the internal b lty members show	ıblished at least o y publication rate benchmark (96%) ved room for imp	ne research pap e is 95%. While ). Female faculty rovement to me	er during the year is 96.619 the overall rate is approxir members achieved except et the target.	% (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi	ulty publicatio rget benchmar ng benchmarks			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns while male facu <b>itrengths</b> The overall	members who pu d the male faculty with the internal b lty members show	ıblished at least o y publication rate benchmark (96%) ved room for imp	ne research pap e is 95%. While ). Female faculty rovement to me	er during the year is 96.619 the overall rate is approxir members achieved except et the target.	% (57 out of 59). Female fac nately very closer to the ta	ulty publicatio rget benchmar ng benchmarks			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns while male facu strengths The overall Weakness While the c	members who pu d the male faculty with the internal l lty members show publication rate o	iblished at least o y publication rate benchmark (96%) ved room for imp of 96.61% indicat ce is strong, there	ne research pap e is 95%. While ). Female faculty rovement to me es that the majo is potential to fu	er during the year is 96.619 the overall rate is approxir members achieved except et the target. writy of faculty members are urther support faculty mem	% (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi	ulty publication rget benchmar ng benchmarks .h. .heir publicatio			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns while male facu itrengths The overall Veakness While the co output. The	members who pu d the male faculty with the internal l lty members show publication rate of overall performance e institution can f	iblished at least o y publication rate benchmark (96%) ved room for imp of 96.61% indicat ce is strong, there	ne research pap e is 95%. While ). Female faculty rovement to me es that the majo is potential to fu	er during the year is 96.619 the overall rate is approxir members achieved except et the target. writy of faculty members are urther support faculty mem	% (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi actively engaged in researc bers to help them increase t	ulty publication rget benchmar ng benchmarks .h. .heir publicatio			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns while male facu strengths The overall Weakness While the co output. The profile. Recommendat	members who pu d the male faculty with the internal b lty members show publication rate of overall performance e institution can f ions faculty members to	iblished at least o y publication rate benchmark (96%) ved room for imp of 96.61% indicat ce is strong, there focus on increasi to apply for more	ne research pap e is 95%. While ). Female faculty rovement to me es that the majo is potential to fung the publicati	er during the year is 96.619 the overall rate is approxir members achieved except et the target. writy of faculty members are urther support faculty mem	% (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi actively engaged in researc bers to help them increase t the target, improving the o	ulty publication rget benchmar ng benchmarks .h. .heir publicatio			
The KPI data wa ull-time faculty ate is 100% an of 98%, it aligns while male facu trengths The overall Weakness While the co output. The profile. Recommendat	members who pu d the male faculty with the internal b lty members show publication rate of overall performance e institution can f ions faculty members to	iblished at least o y publication rate benchmark (96%) ved room for imp of 96.61% indicat ce is strong, there focus on increasi to apply for more	ne research pap e is 95%. While ). Female faculty rovement to me es that the majo is potential to fung the publicati	er during the year is 96.619 the overall rate is approxir members achieved except et the target. writy of faculty members are urther support faculty mem on rate to reach or exceed	% (57 out of 59). Female fac nately very closer to the ta ional performance, surpassi actively engaged in researc bers to help them increase t the target, improving the o	ulty publication rget benchmar ng benchmarks .h. .heir publicatio			



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#### KPI-10: Rate of published research per faculty member

NCAAA KPI R		Standard-4 KPI-P-10							
Program KPI reference				KPI-P-10					
KPI			Rate of	Rate of Published research per faculty members					
Periodical Measurement		Actual	Target	Internal Benchmark	External Benchmark	Target			
		(1445 AH)	(1445 AH)	(1444 AH)	(1445 AH)	(1446 AH)			
	Male:	7.8:1	12:1	9.8:1	10.02:1	8.5:1			
Annual	Female:	9.53:1	12:1	11.7:1	3.48:1	8.5:1			
	Overall:	8.35:1	12:1	10.5:1	7.84:1	8.5:1			
		Rate of	Published Res	earch Per Faculty Mem	ber				
	14 -		i ublisheu nes						
	14 -			1	2.1:1				
	10								
	_		8.35:1						
	- 9 Ratio								
	4 -								
	2 -								
	0 -		(						
Actual (1445 AH) Target (1445 AH)									
against internal, members and 9.9 and also below research, leading additional suppo Strengths The faculty Inspiring Ph	and target bench 53:1 for female fac the internal benc g to fewer publica ort or targeted inte members compen narmacist Day ma	marks. The actur culty members. T hmark of 10.5:1 tions. Male facult erventions. tently participate de an excellent in	al publication ra his is significantl . Faculty members, in p ty members, in p d in research and mpact on the fac	te per faculty member wa y below the target benchm ers may be struggling to b articular, show a lower put d scientific production activ ulty members' research.	nd female faculty members s 8.35:1 overall, with 7.8:1 ark of 12:1 for both male and alance teaching, administra blication rate, which may ind	for male facul d female facul ttive duties, at			
<ul> <li>Three facult</li> <li>Weakness</li> </ul>	ty members were	awarded with th	e best researche	rs in the university.					
	ion can improve o	overall publicatio	n rates by provid	ding additional resources a	nd support for faculty resea	rch efforts.			
<ul> <li>The target v</li> </ul>	vas not fully achie	eved, primarily du	ie to the significa		fees imposed by scientific jo				
Recommendati	ons								
•••	them to get more ns at the college a	-		hem to get promotions an	nd participate in the best re	esearcher awa			
Action Plan									
<ul> <li>Work on mi</li> </ul>	itigating barriers t	o research public	ation, such as hi	gh journal fees, by explorin	a alternative funding source	a or no gotiati			
				Sin journai rees, by exprorin	ig alternative funding source	es or negotiati			
	hers for institution program of the r	nal support.			ig alternative funding source	es of negotiati			

• Improve the program of the research and professional development day.

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#### NCAAA KPI Reference Standard-4 KPI-P-11 **Program KPI reference** KPI-P-11 KPI Citations rate in refereed journals per faculty members Internal Target External Actual Target **Periodical Measurement** (1445 Benchmark Benchmark (1445 AH) (1446 AH) AH) (1444 AH) (1445 AH) 184.1:1 Male: 28.7:1 16:1 16:1 20:1 Annual Female: 22.5:1 10:1 7.8:1 67.0:1 20:1 Overall: 26.5:1 13:1 12.8:1 145.1:1 20:1 **Citations Rate in Refereed Journals Per Faculty Member** 30 26.5:1 25 20 Ratio 13.1 15 10 5 n Actual (1445 AH) Target (1445 AH) **Data Analysis** The citation rate in refereed journals per full-time faculty member was calculated by taking the ratio of the total number of citations in refereed journals to the total research published. The actual citation rate was 26.5:1 overall, with 28.7:1 for males and 22.5:1 for females. This exceeded the target benchmark of 13:1 and the internal benchmark of 12.8:1. The overall citation rate of 26.5 citations per published research demonstrates a solid research impact, indicating that the faculty's work is both recognized and valued within the academic and scientific community and the target for this academic year has been achieved. However, there may still be areas for improvement to maintain or further increase this rate, especially for female faculty, who have a slightly lower citation rate compared to males. Collaborations with international or well-established researchers could be increasing the visibility and citation rate of faculty publications. Strengths The citation rate reflects the high quality and impactful nature of the research conducted by the faculty members of the College of Pharmacy, showcasing their contributions to advancing pharmaceutical sciences. Weakness Developing collaborative initiatives and leveraging advanced tools to further promote research impact and broaden the reach of the • College of Pharmacy's publications. Recommendations Enhancing Research Quality: Focus on producing high-impact research by addressing emerging challenges in pharmacy and • pharmaceutical sciences. Strengthening Collaborative Networks: Expand national and international collaborations to foster interdisciplinary research and joint publications. Action Plan Development of Faculty and Student Capabilities: Conduct advanced training sessions, workshops, and mentoring programs to enhance research competencies across all levels and to use of effective keywords in the research to increase the visibility. / / المرفقات: 310 الرقم: التاريخ:

#### KPI-11: Citations rate in refereed journals per faculty member

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### KPI-15: Average score of both research course in the program and the obligatory research rotation for the

Pharmacy intern students.

_			,					
NCAAA KPI Reference NA								
Program KPI refe	rence	Average score	of hoth researc	KPI-P-15 h course in the program a	und the obligatory recoar	ch rotation for		
КРІ		Average score of both research course in the program and the obligatory research the pharmacy intern students						
Periodical Measurement		Actual (1445 AH)	Target (1445 AH)	Internal Benchmark (1444 AH)	External Benchmark (1445 AH)	Target (1446 AH)		
Annual		95.05%	95%	94.67%	Nil	93%		
	Percentage	100 80 60 40 20 0	Pharmacy 95.05		5			
		A	ctual (1445 AH)	Target (1	1445 AH)			
Data Analysis								
obligatory research re rotation for this year expectations for stud	otation. Tł is 95.05% ent perfor	he actual average s , slightly exceeding rmance in these cri	core for pharmac g the target bench tical areas. Comp	f pharmacy intern students y intern students in both re mark of 95%. This demons ared to the internal benchn ogress in maintaining high a	search courses and the ob strates that the program su- nark of 94.67% (last year's	ligatory research ccessfully met its		
Strengths								
<ul> <li>students for the</li> <li>The well-structure</li> </ul>	r research	rotations.		penchmarks, indicating that is with essential skills for fu				
Weakness								
Encouraging students to focus on deeper critical analysis and interpretation of research findings.								
Recommendations								
capabilities.	-			atistical analysis, and acade nd task prioritization strate				
Action Plan	s with stru	ictureu time mana	gement training a	ing task promization strate	gies during their research	otations.		
Conduct worksh				ch topics, and improving fe	edback mechanisms. osters and effectively prese			

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### SWOT Analysis of Research in 1445 H

Strength	Weakness
The overall publication rate of 96.61% indicates that most faculty members are	The procurement process for chemicals and research materials is
actively engaged in research.	experiencing significant delays.
The college came close to meeting the target benchmark for this year, 1445, with approximately eight research	The rising publication fees have hindered the ability to meet
publications per faculty member.	publication targets effectively.
The results show that our target benchmark for this academic year, 1445, had been achieved (target	The approval process for research development proposals, such as
benchmark), where the citation rate per paper was assigned to be 19.5 and our actual benchmark is about $13$	the animal house project, is <b>delayed</b> and impacts progress.
citations /published article	
Best Young Researcher awards from KKU were granted to three college faculty members.	There are limited opportunities for researcher positions at the
	university.
Good performance in the involvement of PharmD students in research through the obligatory research	
rotation in the final year, along with active participation in conferences.	
Excellent achievements of the master students where it was proven on the research and professional	
development day.	
The college successfully hosted the International Conference on Complementary Medicine - Opportunities	
and Challenges, attracting prominent international researchers and fostering global collaboration in the field.	
Opportunities	Threats
The initial approval for the establishment of the animal house.	Outstanding researchers might be recruited by competing
	universities.
The college's adoption of the "Inspired Pharmacist" strategy presents an opportunity to enhance research and	Limitation in well-trained technicians, a fast track system for
development in pharmaceutical sciences, fostering innovation and collaboration within the academic	instrument maintenance, and advanced instruments on both
community.	campuses.
Several scholarship recipients have returned after completing their PhD programs.	
Increase the number of funding projects (KKU or external funding institutions).	
Encourage the departments to start conducting research seminars where the faculty members can be met and	
discuss the ideas and share their knowledge.	

	•	Encourage the departments to continue conducting research seminars where the faculty members can meet and discuss the ideas and share
Areas of		their knowledge.
improvement	•	There is a need to enhance the efficiency of the procurement process for chemicals and research materials to minimize delays and ensure
		timely access to essential resources.

Send by	Dr.Adel Al Fatease (VDRPS)	Approved by	Dr.Yahya I. Almaawad (Dean)
Signature	delau	Signature	
Date	20/06/2024	Date	20/06/2024