

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



وكالة البحث والدراسات العليا

Research Operation Plan Report

College of Pharmacy

1444 H

Prepared by

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Vice Dean for Research and Postgraduate Studies (VD-RPS)

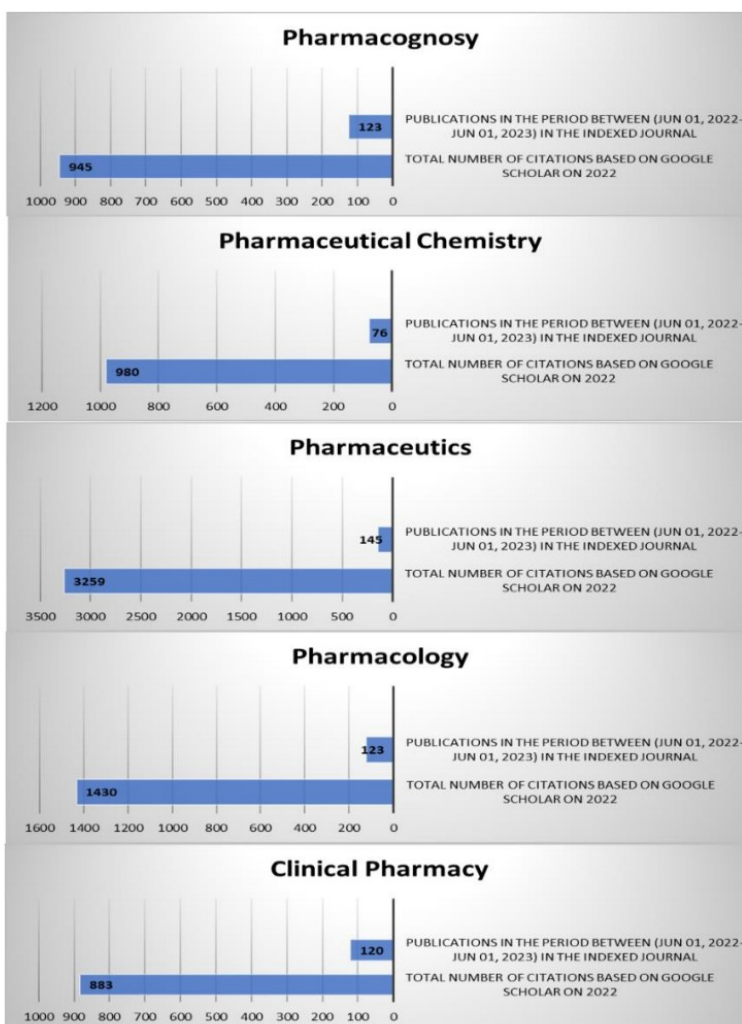
❖ College of Pharmacy Research Activities and Accomplishments:

Activities	Descriptions	Status
PharmD Program- level		
<ul style="list-style-type: none"> A new KPI for students' performance in research has been added (KPI-P-24) to the PharmD program management KPIs. 	This proposed KPI has been discussed extensively and was approved by the intended committee and college board. It has been stated to calculate the average score of the research course in the program and the obligatory research rotation for the pharmacy intern students.	Archived
<ul style="list-style-type: none"> The Research Design Seminar course (1+2 credit) has been introduced in the New PharmD curriculum. 	This course has been proposed, and its CS has been resolved. It is proposed for the new PharmD program curriculum.	On Track
College-level		
<ul style="list-style-type: none"> Two research laboratories have been assigned as central laboratories on both sides (Male and Female). 	A new research laboratory has been assigned to the Alfaraa campus, where most advanced instruments have been placed. Also, one laboratory has been assigned to the female campus as it is planned to be the central research laboratory.	On Track
<ul style="list-style-type: none"> The Animal House establishment proposal has been provided. 	The pharmacology department had proposed the establishment of an animal house on the Alfaraa campus. The educational services committee and Dean approved the proposal and sent it to the University administration for final approval.	Late
<ul style="list-style-type: none"> Cell-Culture Facility establishment has been introduced. 	The educational services committee proposed establishing a cell culture facility.	Late
<ul style="list-style-type: none"> Research and Professional Development Day conducted 	This day was conducted at the end of the academic year 1444 H, where several activities were organized: (Seminars, workshops, Poster showcases, etc.)	Archived
<ul style="list-style-type: none"> Two faculty members had been awarded the best young researchers in 1444 H. 	Dr. Adel Alfatease (Pharmaceutics Dept.) and Dr. Taha Alqahtani (Pharmacology Dept.) were recognized and awarded by the university as the best young researchers in the academic year of 1444 H.	Archived
Master Program-Level		
<ul style="list-style-type: none"> 27 posters were shown to the master students on Research and Professional Development Day (PBD-Day), and the best poster awards were provided. 	Twenty-seven posters were shown on the Day) for both programs (MPBA and MPCS), where the students had the opportunity to show their research projects to other colleagues and staff members. Also, the best poster competition was organized during the event.	Archived
<ul style="list-style-type: none"> Two workshops were organized for the master program students. 	Two workshops organized by the two master programs departments: MPBA and MPCS.	Archived

Research Statistics in 1444 H

	Number of Participant	publications in the period between (Jun 01, 2022- Jun 01, 2023) in the indexed journal	Total number of citations based on google scholar on 2022
Male	36	353	5675
Female	20	234	1822
Total	56	587	7497

Department	publications in the period between (Jun 01, 2022- Jun 01, 2023) in the indexed journal	Total number of citations based on google scholar on 2022
Pharmacognosy	123	945
Pharmaceutical Chem.	76	980
Pharmaceutics	145	3259
Pharmacology	123	1430
Clinical Pharmacy	120	883
Total	587	7497



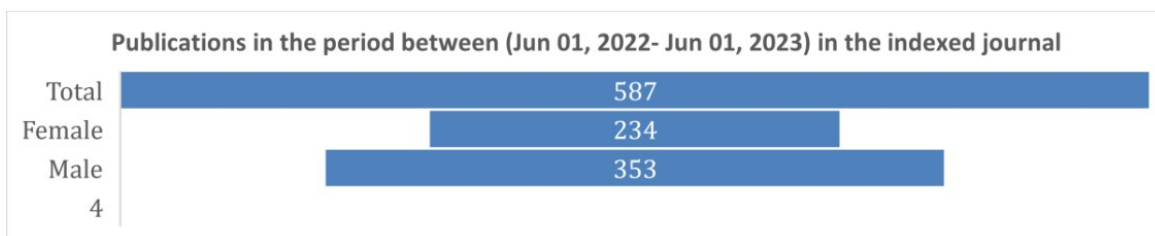
Related KPIs:

1- KPI-18: 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 %**
- Percentage of full-time **Female** faculty members who published at least one research during the year to total faculty members in the institution: 95%
- Percentage of full-time **Male** faculty members who published at least one research during the year to total faculty members in the institution:97.2%

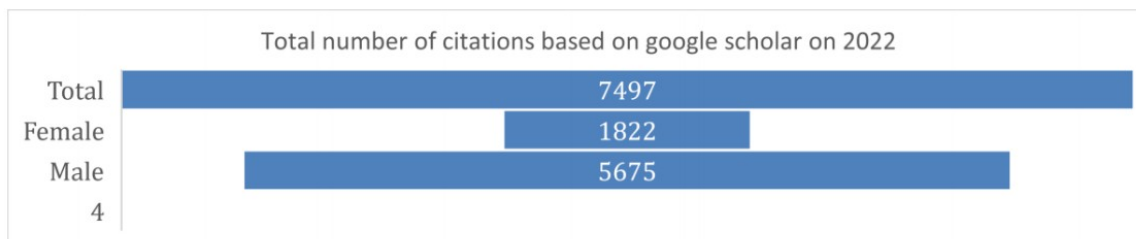
2- KPI-19: Rate of published research per faculty member (The average number of refereed and/or published research per each faculty member during the year (total number of refereed and/or published research to the total number of full-time or equivalent faculty members during the year)

- Total number of refereed and/or published research is 587 Article and the total number of faculty is 63: $587/56 = 10.5:1$ publications/Faculty members.
- Published Rate per **Female** faculty member: $234/20 = 11.7:1$
- Published Rate per **Male** faculty member: $353/36 = 9.8:1$



3- KPI-20: 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 $7497/587 = 12.8:1$ Citations/Published research.
- Total number of citations in refereed journals from published research for full-time or equivalent faculty members (**Female**) : $1822/234 = 7.8:1$
- Total number of citations in refereed journals from published research for full-time or equivalent faculty members (**Male**) : $5675/353 = 16:1$



KPIs Analysis

Standard 5		Teaching and Learning				
Code		KPI-P-18				
KPI Description		Percentage of Publications of Faculty Members				
KPI Calculation Method/Equation		Percentage of full-time faculty members who published at least one research during the year to total faculty members in the institution):				
Standard/Goal	KPI Type	Code	Responsible Party for Setting and Approving Targets	Responsible Party for the KPI	Source of Information	Measurement Frequency
Standard 5 Teaching and Learning	NCAAA	KPI-P-18	Program's Performance Indicators Measurement and Benchmarking Committee	Vice Dean of Educational Affairs and Development	Vice Dean for Postgraduate Studies and Research	Annual
KPI	Actual Benchmark (1444)	Target Benchmark (1444)	Internal Benchmark (1443)	External Benchmark (1444)	New Target Benchmark (1445)	
Percentage of publications of faculty members	Overall: 96% Male: 95% Female: 97.2%	Overall: 97.5% Male: 95% Female: 100%	Overall: 95.24% Male: 93.5% Female: 100%	Overall: 73.52% Male: 84% Female: 44.4%	Overall: 98% Male: 98% Female: 98%	
KPI Analysis	<ul style="list-style-type: none"> The percentage of full-time faculty members who published at least one research during the year to total faculty members in the institution is 96%. Fifty-four out of 56 of our faculty members published at least one paper per year. Percentage of full-time Female faculty members who published at least one research during the year to total faculty members in the institution: 95% Percentage of full-time Male faculty members who published at least one research during the year to total faculty members in the institution: 97.2% <p>The data collected reveals that the overall percentage of faculty with at least one publication (95.24%) does not meet our expectation in 1444 (Target benchmark; 97.5%). However, we keep our performance when it is comparable to the internal benchmark. Also, COP faculty researcher performance was significantly higher than the external benchmark by about 22%. It is noticed that the female faculty members in the college were substantially higher than the external benchmark by about 50%.</p>					
Areas of Strengths	The overall performance in publication this year, 1444 (actual benchmark), was significantly higher than the external benchmark.					
Areas of improvement	Achieve the new target benchmarks in the coming academic year.					
Priority Areas for Improvement	<p>Our area of improvement for 1445 can be described below:</p> <ol style="list-style-type: none"> 1-Encourage faculty members to apply for more KCU and external fund organizations as much as possible. 2- Establishment of the research laboratory and make it accessible for all researchers (Male and Female). 3-Encourage faculty members to present scientific lectures/workshops/webinars where knowledge can be exchanged and good communication can be obtained. 					
Improvement Plans						
Executive recommendation	Responsible Party for Implementation	Timeframes	Responsible Person for Follow-up	Performance indicator		
Encourage faculty members to present scientific lectures/workshops/webinars where knowledge can be exchanged and good communication can be obtained.	VD-PGSR	One year	Vice-dean for postgraduate studies and Research	Number of events conducted		

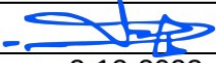
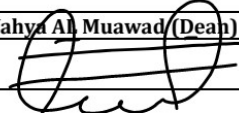
Standard 5		Teaching and Learning				
Code		KPI-P-19				
KPI Description		Rate of published research per faculty member				
KPI Calculation Method/Equation		The average number of refereed and/or published research per each faculty member during the year (total number of refereed and/or published research to the total number of full-time or equivalent faculty members during the year)				
Standard/Goal	KPI Type	Code	Responsible Party for Setting and Approving Targets	Responsible Party for the KPI	Source of Information	Measurement Frequency
Standard 5 Teaching and Learning	NCAAA	KPI-P-19	Program's Performance Indicators Measurement and Benchmarking Committee	Vice Dean of Educational Affairs and Development	Vice Dean for Postgraduate Studies and Research	Annual
KPI	Actual Benchmark (1444)	Target Benchmark (1444)	Internal Benchmark (1443)	External Benchmark (1444)	New Target Benchmark (1445)	
Percentage of publications of faculty members	Overall: 10.5:1 Male: 9.8:1 Female: 11.7:1	Overall: 10:1 Male: 10:1 Female: 10:1	Overall: 9.8:1 Male: 9.7:1 Female: 9.9:1	Overall: 13.67:1 Male: 10.4:1 Female: 3.25:1	Overall: 12:1 Male: 12:1 Female: 12:1	
KPI Analysis	<ul style="list-style-type: none"> Total number of refereed and/or published research is 587 Articles, and the total number of faculty is 56: $587/56=10.5:1$ publications/Faculty members. Published Rate per Female faculty member: $234/20=11.7:1$ Published Rate per Male faculty member: $353/36=9.8:1$ <p>Based on the result mentioned above shows that the college met the target benchmark for this year, 1444, with about ten research published per faculty member. However, it is still under the external benchmark (about 14 publications/faculty members). Our college's full-time female members achieved a higher publication rate with about 12 publications per faculty member compared to about 3 publications/per faculty member in the external benchmark.</p>					
Areas of Strengths	<p>The faculty members competently participated in research and scientific production activities.</p> <p>Research and Professional Development Day made an excellent impact on the faculty members.</p> <p>Two faculty members were awarded with the best researchers in the university.</p>					
Areas of improvement	Encourage them to get more publications that will help them to get job promotions and participate in the best researcher award competitions at the college and/or university level.					
Priority Areas for Improvement	Development of the research and professional development day program where it can be more beneficial and meet the faculty needs.					
Improvement Plans						
Executive recommendation	Responsible Party for Implementation	Timeframes	Responsible Person for Follow-up	Performance indicator		
Improve the program of the research and professional development day.	VD-RPS VD-AAD	One year	Vice-dean for postgraduate studies and Research	Number of events conducted		

Standard 5		Teaching and Learning				
Code		KPI-P-20				
KPI Description		Citations rate in refereed journals per research published				
KPI Calculation Method/Equation		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)				
Standard/Goal	KPI Type	Code	Responsible Party for Setting and Approving Targets	Responsible Party for the KPI	Source of Information	Measurement Frequency
Standard 5 Teaching and Learning	NCAAA	KPI-P-20	Program's Performance Indicators Measurement and Benchmarking Committee	Vice Dean of Educational Affairs and Development	Vice Dean for Postgraduate Studies and Research	Annual
KPI	Actual Benchmark (1444)	Target Benchmark (1444)	Internal Benchmark (1443)	External Benchmark (1444)	New Target Benchmark (1445)	
Percentage of publications of faculty members	Overall: 12.8:1 Male: 16:1 Female: 7.8:1	Overall: 10:1 Male: 12:1 Female: : 8:1	Overall: 9.6:1 Male: 11:1 Female: 6.05: 1	NA	Overall: 13:1 Male: 16:1 Female: 10:1	
KPI Analysis	<ul style="list-style-type: none"> Total number of citations in refereed journals from published research for full-time or equivalent faculty members 7497/587= 12.8:1 Citations/Published research. Total number of citations in refereed journals from published research for full-time or equivalent faculty members (Female) : 1822/234= 7.8: 1 Total number of citations in refereed journals from published research for full-time or equivalent faculty members (Male) : 5675/353= 16:1 <p>The results show that our target benchmark for this academic year, 1444, had been achieved (target benchmark), where the citation rate per paper was assigned to be 10:1, and our actual benchmark is about 13 citations /published article. It also reveals that male and female research citations had been enhanced significantly compared to the last year, 1443 (Internal benchmark). The external benchmark noticed to have an error in their calculation. Thus, it is not used.</p>					
Areas of Strengths	The citations rate enhanced when it is compared to the last year. 1443.					
Areas of improvement	Continue encouraging the researcher to publish in Impacted journals and publish more review articles.					
Priority Areas for Improvement	Continue encouraging the researcher to publish in Impacted journals and publish more review articles.					
Improvement Plans						
Executive recommendation	Responsible Party for Implementation	Timeframes	Responsible Person for Follow-up	Performance indicator		
Encourage the researcher to published on high Impacted journals and published more review articles.	Research Deanship	One year	VD-PGSR	Citations rate in refereed journals per research published		

SWOT Analysis in Research in 1444

Strength	Weakness
The overall performance in publication this year, 1444 (actual benchmark), was significantly higher than the external benchmark.	Slow in the process of purchasing chemicals and other research materials
the college met the target benchmark for this year, 1444, with about ten research published per faculty member	Slow in the process of purchasing chemicals and other research materials.
Our college's full-time female members achieved a higher publication rate with about 12 publications per faculty member compared to about three publications/per faculty member in the external benchmark.	Limit the number of advanced instruments especially in the Female campus.
The results show that our target benchmark for this academic year, 1444, had been achieved (target benchmark), where the citation rate per paper was assigned to be 10:1, and our actual benchmark is about 13 citations /published article	Slow in the approval process for the research development proposals like : (animal house, cell-culture facilities etc.)
Best Young Researcher awards from KKU were granted to two college faculty members.	The critical shortage of laboratory technicians.
Good performance of involvement of PharmD students in the research through the obligatory research rotation in the final year.	Lack of maintenance system for research instruments.
Excellent achievements of the master students where it was proven on the research and professional development day.	There is no availability of researcher positions at the university.
High performance in term of the publication rate by the COP faculty members.	
Opportunities	Threats
The initial approval for the establishment of the animal house.	Outstanding researchers might be recruited by competing universities.
The two new campuses' facilities are enormous, and they need to be exploited as should be to serve the researchers, whether they are students and/or faculty members.	Limitation in well-trained technicians, a transparent system for instrument maintenance, and advanced instruments on both campuses, esp. Females can negatively affect research performance in college.
Collaborations with national and international institutions	Faculty and staff are overloaded with administrative and academic tasks and obligations that may affect their performance in research
Increase the number of funding projects (KKU or external funding institutions)	Lack of research strategy for the college since the University 2030 strategic plan had been determined.
Encourage the departments to start conducting research seminars where the faculty members can be met and discuss the ideas and share their knowledge.	

Areas of improvement	<ul style="list-style-type: none"> Encourage the departments to start conducting research seminars where the faculty members can meet and discuss the ideas and share their knowledge. COP research strategy must be discussed and outlined for the future.
Priority Areas for Improvement	<ul style="list-style-type: none"> Encourage the departments to start conducting research seminars where the faculty members can meet and discuss the ideas and share their knowledge. COP research strategy must be discussed and outlined for the future.

Send by	Dr.Abdullatif Bin Muhsinah (VDPSSR)	Approved by	Dr.Yahya Al Muawad (Dean)
Sign		Sign	
Date	3-12-2023	Date	