# Remote Work in Pharmacy Academia and Implications for the New-Normal

William Allan Prescott Jr., PharmD<sup>1</sup>, Daniel R Kennedy, PhD<sup>2</sup>; Judith DeLuca, PharmD<sup>3</sup>

Results

<sup>1</sup>University at Buffalo School of Pharmacy and Pharmaceutical Sciences

<sup>2</sup>Western New England University, College of Pharmacy and Health Sciences

<sup>3</sup>Wilkes University, Nesbitt School of Pharmacy

Accepted for publication: https://doi.org/10.5688/ajpe8950



### **Bottom-Line**

- During the pandemic, 94% of US pharmacy faculty worked remotely at least "some-of-thetime", a 5-fold increase compared to prepandemic.
- · Most faculty indicated no change or an improvement in their productivity (85%) and effectiveness (80%). Similarly, most administrators indicated no change or an increase in their unit's productivity (81%) and effectiveness (85%).
- · Faculty who worked remotely at least "someof-the-time" perceived they were more productive (p<.0001) and effective (p<.005), and perceived better work-life balance (p<.0001), than those who "never/rarely" worked remotely.
- Considering most faculty and administrators believe productivity and effectiveness were not compromised, and that there appear to be benefits to work-life balance, schools of pharmacy should consider permitting some amount of remote work.

### **Objectives**

To determine the extent pharmacy faculty engaged in remote-work during the COVID-19 pandemic, and secondarily to characterize faculty and administrator perceptions of remote-work.

## **Methods**

- A 28-question online survey was piloted and distributed to AACP members during May 2021. Questions centered on the extent of remote-work and perceptions of its impact on productivity, effectiveness, and work-life balance.
- Overall productivity and effectiveness were determined by calculating the mean Likert score for each respondent based on their ratings in didactic teaching, experiential teaching, research, clinical practice, college/school service, professional service, and administration.
- Data pertaining to the extent of remote-work and perceived productivity, effectiveness, and work-life balance were analyzed statistically, with sub-analyses run by demographics.

			V.a		
Respondent Demographics	1	Respondent Demographics			
Demographic No. (%)		Demographic	No. (%)		
Type of position		FTE			
Faculty	940 (72.7)	1.0	1231 (95.2)		
Faculty administrator	337 (26.1)	< 1.0	54 (4.2)		
Track		Sex			
Non-Tenure	710 (54.9)	Female	710 (54.9)		
Tenure-Track/Tenured	572 (44.2)	Male	471 (36.4)		
Academic Rank		Prefer not to answer / No response	112 (8.7)		
Assistant Professor	365 (28.2)	Marital Status			
Associate Professor	476 (36.8)	Married or domestic partnership	963 (74.5)		
Professor	401 (31.0)	Single	206 (15.9)		
Distinguished Professor	14 (1.1)	Prefer not to answer / No response	124 (9.6)		
Other	28 (2.2)	Dependents			
Academic Area		Infants aged < 1 year	88 (6.8)		
Medicinal/Pharmaceutical Chemistry	82 (6.3)	Children aged 1-5 years	246 (19.0)		
Pharmaceutics	71 (5.5)	Children aged 6-12 years	310 (24.0)		
Pharmacology/Biological Sciences	150 (11.6)	Adolescents aged 13-17 years	226 (17.5)		
Pharmacy Practice	844 (65.3)	Dependent adults aged > 18 years able to care for self	268 (4.6)		
Social/Administrative Sciences	137 (10.6)	Dependent adults aged > 18 years with special needs	59 (4.6)		

Response Rate: 1293/6322 (21%) - At least one faculty and administrator response were received from 139/141

### Productivity and Effectiveness Among Faculty Working Remotely

(99% response rate) and 126/141 (89% response rate) schools, respectively.

	No perceived	Perceived	Faculty who worked	Faculty who	
	change,	improvement,	remotely at least	never/rarely	
	No. (%)	No. (%)	some of the time <sup>a</sup>	worked remotely <sup>a</sup>	
Demographic			Mean <u>+</u> SD	Mean <u>+</u> SD	
Overall productivity (n=1241) b			$3.1\pm0.7$ °	$2.8 \pm 0.6$	
Teaching, didactic (n=1218)	591 (48.5)	383 (31.4)	3.2 <u>+</u> 0.9 °	$2.7 \pm 0.8$	
Teaching, experiential (n=817)	372 (45.5)	150 (18.4)	$2.8 \pm 1.0$	$2.7 \pm 0.6$	
Research (n=1190)	338 (28.4)	364 (30.6)	$2.9 \pm 1.2$ d	$2.5 \pm 1.0$	
Service, college (n=1230)	623 (50.7)	383 (31.1)	$3.2 \pm 0.9$ d	$2.9 \pm 0.8$	
Service, profession (n=1200)	596 (49.7)	355 (29.6)	$3.2 \pm 1.0$ °	$2.8 \pm 0.9$	
Administration (n=832)	455 (54.7)	269 (32.3)	$3.3 \pm 0.9$ °	$2.9 \pm 0.7$	
Clinical practice (n=647)	322 (49.8)	100 (15.5)	$2.8 \pm 0.9$	$2.8 \pm 0.7$	
Overall effectiveness (n=1238) b			$3.0 \pm 0.7$ °	$2.8 \pm 0.5$	
Teaching, didactic (n=1218)	378 (31.0)	309 (25.4)	$2.8 \pm 1.0$ <sup>d</sup>	$2.6 \pm 0.9$	
Teaching, experiential (n=814)	342 (42.0)	134 (16.5)	$2.7 \pm 1.0$	$2.6 \pm 0.7$	
Research (n=1186)	406 (34.2)	340 (28.7)	$2.9 \pm 1.2$ d	$2.6 \pm 1.0$	
Service, college (n=1224)	645 (52.7)	359 (29.3)	3.2 ± 0.9 °	$3.0 \pm 0.7$	
Service, profession (n=1192)	638 (53.5)	314 (26.3)	$3.1\pm0.9$ f	$2.8 \pm 0.8$	
Administration (n=832)	454 (54.6)	235 (28.2)	3.2 ± 0.9 °	$2.8 \pm 0.8$	
Clinical practice (n=653)	337 (51.6)	110 (16.8)	$2.8 \pm 0.9$	$3.0 \pm 0.7$	

<sup>a</sup> 5-point Likert scale: Significantly declined to significantly improved; <sup>b</sup> Calculated based on respondent means for each category; p < .0001; d p < .05; e p < .005; f < .01.

Faculty: More than half of respondents indicated experiencing no change in overall productivity (62%) or effectiveness (59%) while working remotely, and an increase was noted by 23% and 21% of respondents, respectively. Faculty who worked remotely at least "some of the time" perceived they were more productive (p< .0001) and effective (p< .005) than those who "never" or "rarely" did so.

Administrators: More than half of administrators indicated no change in their unit's overall productivity (63%) or effectiveness (61%) while faculty worked remotely, and an increase was noted by 18% and 14% of respondents, respectively. Nearly 90% of administrators believed faculty should be permitted to work remotely at least some of the time after the pandemic abates.

#### Extent of Remote Work Among US Pharmacy Faculty



Prior to the pandemic, 19% of faculty worked remotely at least "some of the time". During the pandemic, 97% of faculty were permitted to work remotely. 94% of whom did so at least "some of the time" and 66% of whom did so "most of the time" or "always".

### Work-Life Balance Among Faculty Working Remotely

	Work-life balance among			
	faculty who worked remotely			
	at least some of the time <sup>a</sup>			
Demographic	Mean <u>+</u> SD			
Type of Position				
Faculty (n=906)	$3.5 \pm 1.3$			
Faculty Administrator (n=325)	$3.4 \pm 1.2$			
Sex				
Female (n=686)	$3.6 \pm 1.3$ b			
Male (n=451)	$3.3 \pm 1.2$			
Marital Status				
Married or Domestic partnership (n=931)	$3.5 \pm 1.3$			
Single (n=197)	$3.3 \pm 1.3$			
Respondents with $\geq 1$ dependent (n=774)	$3.5 \pm 1.3$			
Respondents with $\geq 1$ dependent < 18 years (n=600) <sup>c</sup>	$3.5 \pm 1.3$			
Infants aged < 1 year (n=87)	$3.8 \pm 1.2$			
Children aged 1-5 years (n=236)	$3.7 \pm 1.3$			
Children aged 6-12 years (n=302)	$3.5 \pm 1.4$			
Adolescents aged 13-17 years (n=216)	$3.4 \pm 1.2$			
Frequency at which faculty worked remotely				
At least some of the time	$3.5 \pm 1.3$ <sup>d</sup>			
Never/rarely	$2.7 \pm 1.3$			

\*5-point Likert scale: Significantly declined to significantly improved; <sup>b</sup>p

vs. faculty with no dependent children/adolescents; <sup>d</sup> p< .0001 vs. never/rarely

Faculty who worked remotely "at least some of the time" during the pandemic perceived that they had better work-life balance than those who never/rarely did so (p< .0001).

1.	Global Workplace A	nalytics.	https://globalworkp	laceanalytics	.com/work-a	t-home-afte	r-covid-1	9-our-forecas	t. Accessed	d April
	17. 2021.									

Pew Research Center: How the Coronavirus Outbreak Has - and Hasn't - Changed the Way Americans Work. eak-has-and-hasnt-changed-the-way https://www.pewresearch.org/social-trends/2020/12/09/how-the-coronavirus-outbut americans-work Accessed April 17 2021