

COMPARISON OF STUDENTS PERFORMANCE IN ONLINE VS FACE TO FACE DELIVERY OF COURSE OF OBSTETRICS AND GYNECOLOGY- A STUDY FROM QASSIM REGION

Zaheera Saadia & Hossam Hamid

CORRESPONDENCE — ZAHEERA SAADIA- PROFESSOR OF OBSTETRICS AND GYNECOLOGY QASSIM UNIVERSITY/SAUDIARABIA EMAIL-zmhmod@qu.edu.sa

INTRODUCTION

➤This study had provided information about the effectiveness of online method of teaching system as adopted by our course. The main objective is to explore in numerical terms whether student’s performance in online course is comparable to in class teaching or not

METHODS:

It was a cohort retrospective case control study. A total of 123 students had Obstetrics and Gynecology course delivered online compared to control group of 115 students who had the same course onsite.

RESULTS: The measured outcomes were overall students’ marks and grades, performance in relation to gender and attendance rates.

➤ Overall students’ grades and attendance were higher in online group (P = 0.004 & P = 0.0001, respectively) which is more evident in male students (P = 0.009). In male students, table 4 shows significantly higher students have got above-average grades and lower students had below-average grades in online teaching in comparison to onsite teaching with overall P=0.009. On the other hand, in female students (Table 5) the difference in students’ grades was not significantly different among both groups of study.

➤ There were no significant differences between male and female performances in both groups of study (P> 0.05)

CONCLUSION: This study had provided information about the effectiveness of online method of teaching system as adopted by our course.

➤Students’ performance and overall attendance is better in online compared to face- to -face teaching. Researchers might recommend continuation of hybrid teaching even after end of Covid-19 pandemic.

➤This will help policy makers in finalizing their decisions for future studies. This pattern will be very useful for clinical courses like Obstetrics and Gynecology.

Table 1. Students’ demographic variables which may affect performance in exam.

Variable	Level	Online N=123 N0 (%)	Face to Face N=115 N0 (%)	95%CI (P value)
Gender	Male	84 (68.2%)	74 (64.3%)	--
	Female	39 (31.7%)	41 (35.6%)	
State of student	Fresh	118 (95.9%)	114 (99.13%)	---
	Repeater	5 (4.06%)	1 (0.86%)	
*Absence from course activities	<5% of activities	47 (38.21%)	25 (21.73%)	<(0.0001)
	5-10%	54 (43.90%)	39 (33.91%)	
	>10 -<25%	22 (17.8%)	51 (44.34%)	
	Mean±SD (days)	6.27±3.93	9.59±5.81	-4.32 to -1.80 <(0.0001)

Table 2. Cross-tabulation of group and students’ grades.
*X² = Chi-square test

Overall grade	Group		Total N=238 No (%)	*X² value (p-value)	Overall X² P value
	Online N=123 No (%)	Face to Face N=115 No (%)			
	Excellent grades		3 (2.6%)		0.004
# A	4 (3.3%)	7 (2.9%)		--	
	Above-average grades		7 (6.1%)		
B+	28 (22.8%)	35 (14.7%)		8.0705	
B	21 (17.1%)	43 (18.1%)		(P= 0.018)	
	Average grades				
C+	27 (22%)	44 (18.5%)		2.5214	
C	22 (17.9%)	49 (20.6%)		(P= 0.112)	
	Below-average grades				
D+	14 (11.4%)	37 (15.5%)		0.3626	
D	5 (4.1%)	17 (7.1%)		(P= 0.547)	
	Failed students				
# F	2 (1.6%)	4 (3.5%)	6 (2.5114%)	---	

Table 3. Cross-tabulation of group and Student’s marks in continues assessment and tools of final exam.

Assessment task & tools		Online	Face to Face	Confidence interval	P-value
		N=123	N=115		
		Mean±SD	Mean±SD		
Continuous assessment mark (40%)		31.48±3.25	29.8±3.09	0.85-2.48	0.001
Final exam mark (60%)	MCQ (30%)	21.64±3.13	19.53±3.56	1.24-2.95	0.001
	OSCE (10%)	7.74±1.23	7.51±1.09	-0.54-0.52	0.129
	MEQ (5%)	3.75±0.74	3.6±0.65	-0.02-0.32	0.099
	Clinical (15%)	12.59±1.23	12.61±1.01	-0.32-0.28	0.87

Table 5: Cross-tabulation of group (females only) and overall grade.

	Group		Total N=80 No (%)	Overall X² P value
	Online N=39 No (%)	Face to Face N=41 No (%)		
Overall grade				0.221
A	2 (5%)	0 (0%)	2 (2%)	
B+	7 (18%)	4 (10%)	11 (14%)	
B	9 (23%)	9 (22%)	18 (22%)	
C+	9 (23%)	4 (10%)	13 (16%)	
C	5 (13%)	12 (29%)	17 (21%)	
D+	5 (13%)	8 (20%)	13 (16%)	
D	2 (5%)	3 (7%)	5 (6%)	
F	0 (0%)	1 (2%)	1 (1%)	

Table 4. Cross-tabulation of group (males only) and overall grade.

	Group		Total N=158 No (%)	Overall X² P value
	Online N=84 No (%)	Face to Face N=74 No (%)		
Overall grade				0.009
A	2 (2%)	3 (4%)	5 (3%)	
B+	21 (25%)	3 (4%)	24 (15%)	
B	12 (14%)	13 (18%)	25 (16%)	
C+	18 (21%)	13 (18%)	31 (20%)	
C	17 (20%)	15 (20%)	32 (20%)	
D+	9 (11%)	15 (20%)	24 (15%)	
D	3 (4%)	9 (12%)	12 (8%)	
F	2 (2%)	3 (4%)	5 (3%)	

