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Nursing and Dental Students Responses to Experiences with Interprofessional Education.

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Abstract: Interprofessional education has received increasingly more attention over the years. This study was performed from two groups; the dental students, and the nursing students.
After the rotation, the nursing students' tooth brushing frequency increased, and their comfort level with dental visits and oral health related knowledge improved.
Aim: To assess whether the IPE experience would improve nursing students', dental students', IPE related attitudes as well as their RIPLS scores from beginning to end of this IPE experience.
Objective:

- How nursing students' considerations concerning their own oral health and oral health related knowledge changed before and after IPE.
- How nursing and dental students RIPLS scores changed after rotation.
- How these groups attitudes and RIPLS scores were related.

Methodology:

- This study was approved by the Institutional Review Board for the Behavioral and Health Sciences at the University of Michigan.
- Data from the nursing students and dental students who participated in IPE were collected.
- To assess changes, survey was conducted between the two groups.

Results:
A total of 200 students took part in this with females (133) and males (67), age of the participants ranging from 18-25yrs. In this study, both nursing and dental students agreed that they learned clinical skills and are likely to use in their careers.
Conclusion:

- The nursing students who participated in IPE experience with dental students improved their oral health related behavior.
- Dental students participated also improved their attitudes related to importance of nurses engaging in caries risk assessment and recognizing caries.

key words:

- Interprofessional education
- Dental education
- Nursing students

Introduction:

Interprofessional education has received increasingly more attention over the years. Oral hygiene efforts might be seen as less important than coping with medical problems and therefore be neglected.

Nurses can play an important role in this context because they provide support in patient's hospital and communicate with them.

Oral care has been shown to be a low priority for nurses. Interprofessional education might be one way to change this situation.

Aim:

To assess whether IPE experience would improve nursing students' dental students' IPE related issues as well as their RIPLS scores from beginning to end of this course.

RESULTS:

Both nursing and dental students agreed that they learned clinical skills they are likely to use in their careers.

AGE

	N	Minimum	Maximum	Mean	Std. Deviation
Age	200	18	25	21.89	1.035

YEAR OF STUDY

GENDER	Frequency	Percent
MALE	67	33.5
FEMALE	133	66.5
Total	200	100.0

	Frequency	Percent
NURSING	104	52.0
DENTAL INTERNS	96	48.0
Total	200	100.0

Distribution and comparison of responses based on gender:

Item	Response	Males		Females		Chi-Square value	P value
		n	%	n	%		
Q1	1	56	33.3	112	66.6	7.315	**0.007***
	2	9	30.0	21	70.0		
Q2	1	8	12.6	16	21.6	2.750	0.432
	2	23	33.3	49	36.7		
	3	32	42.5	65	40.5		
	4	4	11.2	3	8.8		
Q3	1	45	40.7	83	59.3	1.920	0.589
	2	7	29.2	17	20.8		
	3	16	47.1	18	22.9		
	4	6	42.9	15	17.1		
Q4	1	16	33.3	26	66.7	0.697	0.874
	2	23	36.4	65	63.6		
	3	25	39.1	45	60.9		
	4	3	42	7	58		
Q5	1	1	2.5	7	7.5	2.930	0.402
	2	8	7.1	24	32.9		
	3	6	6.4	9	60		
	4	52	86.4	102	59.6		
Q6	1	51	42.6	109	57.4	3.720	**0.06**

	2	5	21.7	18	18.3		
Q7	1	54	78.0	111	60.8	1.489	0.475
	2	11	20.7	16	29.3		
Q8	1	38	56.7	76	57.1	3.980	0.05*
	2	2	2.9	10	7.5		
Q9	1	43	71.2	104	68.8	0.671	0.413
	2	17	21.6	13	18.4		
Q10	1	7	13.6	15	15	7.241	0.065
	2	53	62.9	97	57.1		
	3	7	13.6	6	16.2		
	4	1	3.3	15	25.6		
	5	0	0	0	0		
Q11	1	2	3.3	13	6.7	2.655	0.448
	2	5	6.4	14	9.6		
	3	9	30	21	20		
Q12	1	2	2.9	32	24.0	6.418	0.003*
	2	49	73.1	73	54.8		
	3	8	11.9	15	11.2		
	4	8	11.9	13	9.7		
	5	0	0	0	0		
Q13	1	42	32.8	83	57.2	2.311	0.510
	2	6	16.1	17	13.9		
	3	11	29.3	17	13.9		
	4	8	11.2	16	12.8		
	5	0	0	0	0		

Distribution and comparison of responses based on year of the study

Item	**Response**	**NURSING**		**DENTAL INTERNS**		**Chi-Value**	**P-Value**
		n	**%**	**n**	**%**		
Q1	1	95	50.2	94	49.8	3.998	0.06
	2	9	81.8	2	18.2		
Q2	1	1	40	9	36	28.554	**0.06**
	2	2	22.2	33	61.1		
	3	1	10	7	70		
	4	70	43.1	29	18.1		
Q3	1	58	41.4	27	19.3	21.445	**0.08**
	2	6	25	14	58.3		
	3	2	35.3	10	29.4		
	4	8	57.1	27	35.7		
Q4	1	7	38.9	28	33.3	27.128	**0.246**
	2	6	27.3	14	63.6		
	3	6	26.1	10	43.5		
	4	55	43.3	26	17.3		
Q5	1	4	5.4	2	2.5	12.714	**0.048***
	2	6	8.1	7	8.9		
	3	12	16.2	9	11.5		
	4	52	70.2	50	64.1		
Q6	1	43	76.5	47	74.7	2.257	0.323
	2	7	10.4	9	9.1		
Q7	1	44	56.7	47	65.4	2.712	0.607
	2	10	14.7	9	13.3		
Q8	1	10	41.7	9	20.8	34.979	**0.06**
	2	2	16.7	9	75		
Q9	1	60	71.2	44	72.7	14.651	**0.08**

	2	4	11.1	12	13.2		
Q10	1	7	35	6	30	12.306	0.055
	2	59	40.6	51	22.4		
	3	6	46.2	6	46.2		
	4	2	20	6	60		
	5	0	0	0	0		
Q11	1	5	33.3	4	26.7	33.408	**0.076**
	2	3	13.6	16	72.7		
	3	12	40	11	36.7		
Q12	1	4	36.4	6	54.5	14.996	**0.474**
	2	53	41.2	53	20.3		
	3	13	41.9	10	32.3		
	4	4	22.2	9	50		
	5	0	0	0	0		
Q13	1	59	40.7	52	22.1	14.977	**0.748**
	2	8	34.8	10	43.5		
	3	9	32.1	13	46.4		
	4	8	47.1	1	5.9		
	5	0	0	0	0		

DISCUSSION:

Developing IPE experiences for studemts in health professions schools is a timely topic as the recently published workshop summary entitled Interprofessional education for Collaboration.

Concerning the effects of these ipe experiences on nursing students, the data showed a positive effect on their own health oral related behavior.

Concerning our second objective to assess how dental and nursing students attitudes towards the importance of nursing students having oral health related knowledge and skills readiness for interprofessional learning would change as a function of the rotation the data showed a not to improve overall.

CONCLUSION:

The nursing students improved their oral health related behavior, knowledge and attitudes related to the importance of nurses being involved in oral health promotions. There is a need to explore how to concretely involve dental students in gaining a better understanding of the role nurses can play in oral health promotion efforts.

Overall, this IPE program was very well received by both dental and nursing students.

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