



SIGMA THETA TAU INTERNATIONAL

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Peristomal Skin Integrity of Patients with Tracheostomy

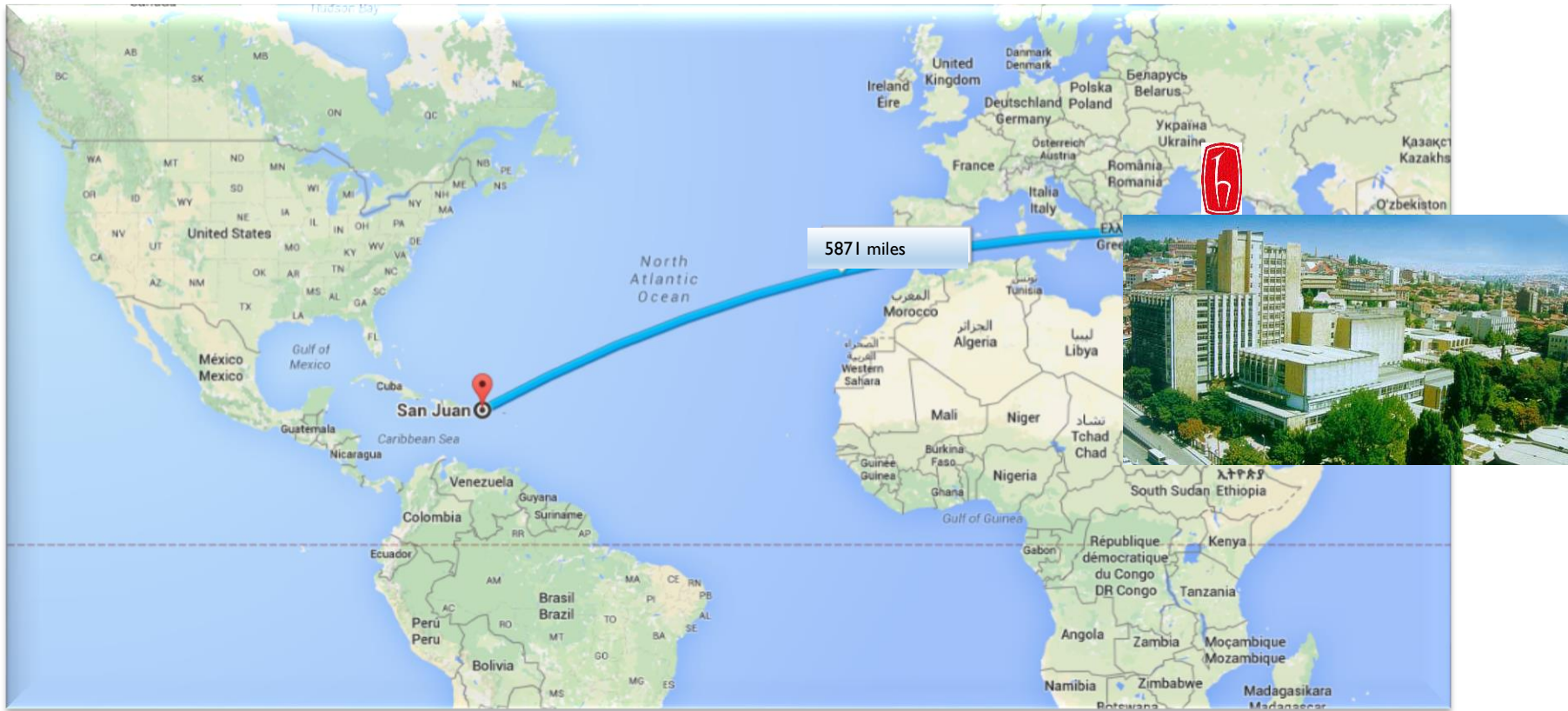
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Authors declared
Any conflict of interest

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OUTLINE

- Importance of the Problem
- Study Aim
- Methods
- Results
- Conclusion



IMPORTANCE OF THE PROBLEM

- ❑ Peristomal skin complications usually mean resource utilization - increased patient care needs and the struggle to attain an optimal functional status or comfortable state of well-being are expensive.
- ❑ Overall rate of peristomal skin complications ranges from 18% to 55%.



STUDY AIM

Study was carried out to determine effect of barrier cream on peristomal skin integrity.





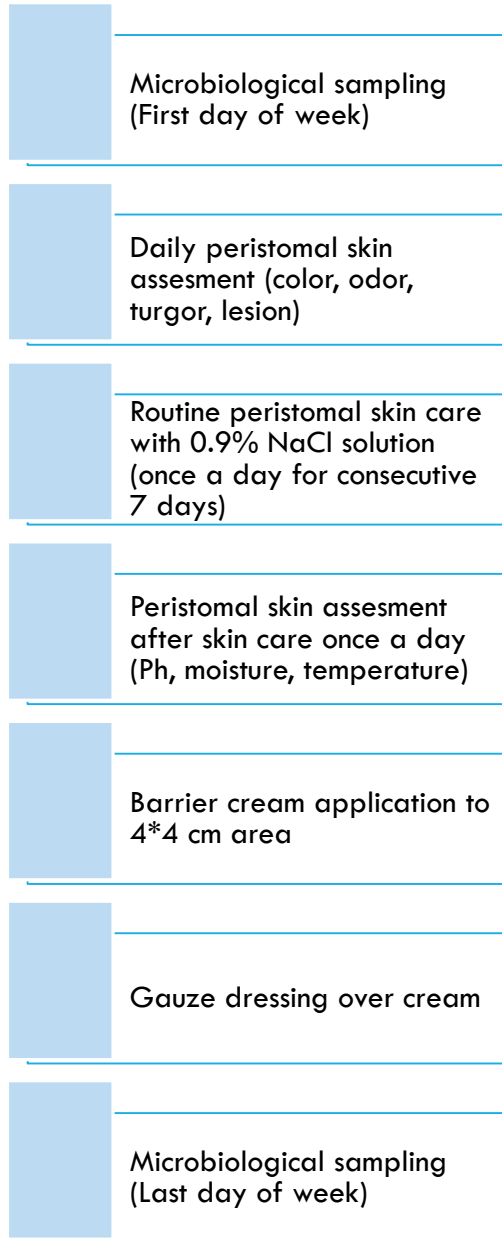
METHODS

- ❑ This quasi experimental study was conducted in a university hospital in Turkey between March-December 2013
- ❑ Inclusion criteria for participation
 - ❑ Aging 18- 65 years
 - ❑ Admission to inpatient clinic without tracheostomy complications
- ❑ Sample included 60 patients (30 patients per group)
- ❑ Patients randomized to intervention and control group

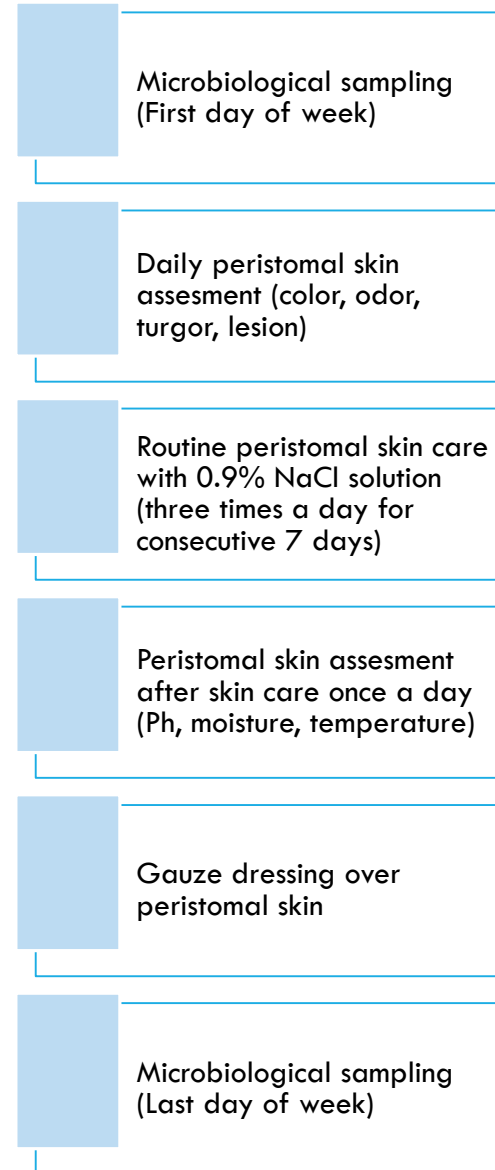
STUDY PROCEDURE



INTERVENTION GROUP



CONTROL GROUP





METHODS

□ Data were collected with 'Patient Data Form' including demographic and tracheostomy questions and 'Periostomal Skin Assessment Form' first part includes Ph, moisture, temperature, color, odor, turgor assesment questions, second part includes lesion, infection, erosion, maseration, and leakage assesment questions. Peristomal skin also assessed for microbiology examination.



METHODS

- ❑ Study was approved by universities ethical committee
- ❑ Written consent was obtained from patients
- ❑ Data analyzed with analysis of variance for repeated measures, mean and percentage calculations.



RESULTS

Socio-Economic Characteristics	Intervention Group		Control Group	
	n	%	n	%
Age / 50-65 years	18	60.0	17	56.6
Gender / Male	19	63.4	22	73.4
BMI / 23-24.9	16	53.3	19	63.3
Diagnosis / Upper respiratory system cancers	11	36.6	12	40.0
Chronic diseases / Yes	15	50.0	14	46.6
Tobacco use / Yes	15	50.0	14	46.6
Type of cannula / Plastic cannula	27	90.0	20	66.6



RESULTS

PERISTOMAL SKIN ASSESSMENT

Peristomal Skin Assessment	Day 1. x±sd	Day 2. x±sd	Day 3. x±sd	Day 4. x±sd	Day 5. x±sd	Day 6. x±sd	Day 7. x±sd	P value
Ph								
Intervention Group	5.51±0.07	5.47±0.06	5.45±0.06	5.41±0.06	5.43±0.05	5.45±0.10	5.46±0.06	p=0.048
Control Group	5.16±0.08	5.13±0.07	5.10±0.05	5.10±0.09	5.11±0.11	5.13±0.60	5.11±0.08	
Moisture								
Intervention Group	41.60±1.28	41.96±0.93	41.10±1.15	41.70±0.99	42.10±1.49	41.76±0.97	41.80±0.76	p=0.001
Control Group	47.40±1.40	47.20±1.27	47.03±1.85	46.96±2.52	46.90±1.73	46.83±2.07	46.00±1.11	
Temperature								
Intervention Group	31.96±0.81	31.53±0.57	31.20±0.99	31.73±1.05	31.60±1.33	31.73±0.94	32.03±1.10	p=0.158
Control Group	33.86±0.78	33.40±1.33	33.56±1.50	33.66±1.49	33.33±1.45	33.70±1.80	33.63±1.81	



RESULTS

PERISTOMAL SKIN ASSESSMENT

Peristomal Skin Assessment	Intervention Group $x \pm ss$	Control Group $x \pm ss$	P Value
PH	5.45 ± 0.04	5.12 ± 0.06	<0.001
Moisture	41.71 ± 0.77	46.90 ± 0.13	<0.001
Temperature	31.64 ± 0.61	33.59 ± 1.30	<0.001



CONCLUSION

- Both gauze dressing and barrier cream - gauze dressing changes over peristoma preserve the skin integrity.
- However, results indicate that barrier cream - gauze dressing application is better for balancing the peristomal skin's pH, moisture and temperature level with in normal ranges.



THANK YOU....

Nursing, which provides job opportunities in various fields both in our country and in the world, is one of the seven occupational groups recognized to have the right to provide professional services by European Union countries. The Nursing Department, which offered education within the Faculty of Health Sciences since 2007, became a Faculty of Nursing in 2012.

Our undergraduate program aims at helping students to give nursing care in line with changing individual and social needs as well as providing students with the knowledge, skill and understanding necessary for nursing education, management and research fields, and ensuring that students can use the knowledge they have gained in order to protect, improve and preserve health effectively. Students start their education with a preparatory program of English and pursue it in our faculty where the medium of instruction is 30% English. They graduate from our faculty by assuming the title of "nurse" after fulfilling a semi-term internship program in their senior year.

Our Faculty offers undergraduate and graduate programs in eight departments. As well as having in-class theoretical courses, and doing skill and simulation laboratory practices, all of our students receive applied training at establishments that give protective and medical health service.

Our graduates can be employed as staff nurse, charge nurse, nurse consultants, clinical nurse specialists, and advisor at state and private healthcare organizations giving protective, medical and rehabilitative service at national and international level; or as an instructor and director at nursing schools.

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Photo: Sıhhiye Campus, Simulation Laboratory of Faculty of Nursing

Hacettepe University, Faculty of Nursing



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