KNOWLEDGE of NURSES in PRESSURE ULCER PREVENTION and their ATTITUDE towards



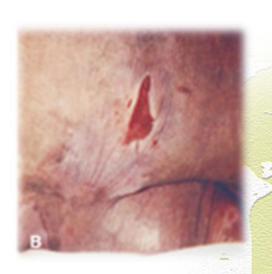
the use of BRADEN SCALE

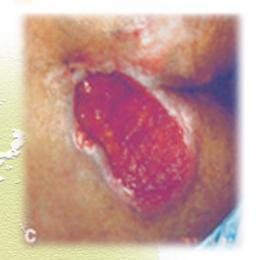


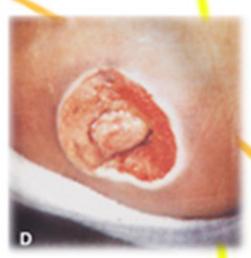
JOEMER CALDERON MARAVILLA, BSN

FAR EASTERN UNIVERSITY
Institute of Nursing
Manila, PHILIPPINES









PRESSURE ULCER remains to be one of the major healthcare problems around the world (Wilborn, Grittner, Dassen, and Kottner, 2010)



For every 1,000,000 patients who developed pressure ulcer, **65,000 DIE** from complications.

(Agency for Healthcare Research Quality, 2008)

An **80% INCREASE** in the number of patients who were hospitalized due to pressure ulcers from the year 1993 to 2006.

(Agency for Healthcare Research Quality, 2008)



Prevalence Rate of 9% to 14% in 3 Singaporean Hospitals caring for Acute and Rehabilitating patients

(Ministry of Health, Singapore, 2001)



*Rate of 21% in a rehabilitation hospital in Hong Kong (Lai A., & Ng M., 1991)

About **20%** developed pressure ulcer among bed-ridden hospitalized **orthopedic patients** in a tertiary hospital in the **PHILIPPINES** (Molon, J.N.D., and Estrella, E.P., 2011)





21.2% of patient who underwent surgery developed pressure ulcer in the FIRST 2 days POSTOPERATIVELY

(Schoonven et al., 2002)





- Painful
- Expensive
- Affect MENTAL;
- •EMOTIONAL; and
- SOCIAL well-being

(American Journal of Nursing, 2007)





National Patient Safely Goal:

....Reduction of the Risk of Developing Pressure Ulcers through the use of Pressure Ulcer Risk Assessment Scales (RAS)

(The Joint Commission, 2011; Wann-hansson and William, 2007)

Norton Scale

Braden Scale

Waterlow Scale



6th



PROBLEM STATEMENT



Nurses still showed POOR COMPLIANCE with the clinical guidelines regarding pressure ulcer prevention (Wann-Hansson and William, 2007)

Nurses view pressure ulcer prevention as being LESS IMPORTANT than other aspects of nursing care

(Athlin et al., 2010; Samuriwo, 2010)



PROBLEM STATEMENT



AWARENESS

COMPLIANCE COMPETENCY

(Wann-Hansson and William, 2007; Miyazaki, Caliri, and dos Santos, 2010)

PROBLEM STATEMENT



...nurses must be knowledgeable about the use of RAS and possess correct clinical judgment to be able to prevent pressure ulcer...

(Vanderwee et al. 2007)

ATTITUDE

MOTIVATIONAL

Intervention

EDUCATIONAL Intervention



PURPOSE of the STUDY

Investigate the relationship between the Knowledge of Nurses in pressure ulcer prevention and their Attitude towards the use of Braden scale



PURPOSE of the STUDY

1. What is the **KNOWLEDGE** of nurses in pressure ulcer prevention?

2. What is the **ATTITUDE** of nurses towards the use of Braden Scale as a form of pressure ulcer prevention?

3.Is there a significant **RELATIONSHIP** between the knowledge of nurses in pressure ulcer prevention and their attitudes towards the use of Braden Scale?



Design

Descriptive Correlational Design

Locale

- 650 Bed-Capacity Hospital in Bonifacio Global City, Taguig
- 217 Bed-Capacity Hospital in Alabang, Muntinlupa



POPULATION and SAMPLE

Sampling Method

Purposive Sampling



- Full time Staff Nurses
- Experienced using the Braden scale
- Working in...
 - Intensive Care Units
 - Medical Ward
 - Surgical Wards; or
 - Orthopedic Wards





Demographics of the Sample

Demographics	f	%		
N = 77(Age:23 - 63 yrs. old)				
Response Rate = 67%				
Gender				
Male	15	19.48		
Female	62	80.5		
Hospital				
Medical Center A	39	50.65		
Medical Center B	38	49.35		
Ward				
Medical Ward	32	41.55		
Surgical Ward	3	3.9		
Orthopedic Ward	3	3.90		
Intensive Care Unit	39	50.65		





RESEARCH INSTRUMENTS

Modified Instrument	Items	Reliability
Pieper's Pressure Ulcer Knowledge Test (Pieper and Caliri, 2002)	33	0.81
Attitude Identification Tool (Moore and Price, 2004)	11	0.84



ETHICAL CONSIDERATIONS

- Approval was given by the two research locales after a review of research proposal
- Ethics evaluation by the Research Committee of Far Eastern University Institute of Nursing



Knowledge of Staff Nurses in Pressure Ulcer Prevention and their Attitude towards the Use of Braden Scale

	Mean	Interpretation
Knowledge in Pressure Ulcer Prevention	76.94	Inadequate Knowledge
Attitude towards the Use of Braden Scale	3.97	Positive Attitude



KNOWLEDGE

Item	Answer	%	
It is important to massage bony prominences	False	72.37	%
Donut devices/ring cushions help to prevent pressure ulcers	False	88.31	%
Heel protectors like gloves filled with water relieve pressure on the heels	False	79.22	%



ATTITUDE

- •Braden scale **DOES NOT CONSUME** more of the time in their shift (62%)
- •They NEED TO CONCERN themselves in using the Braden scale with their practice (84%)
- •Pressure ulcer prevention was also considered a **GREATER PRIORITY** than pressure ulcer treatment (87%)
- •Most of the respondents accepted that continuous assessment will give an ACCURATE ACCOUNT of the pressure ulcer status of their patients (94%)



ATTITUDE

Uncertain:

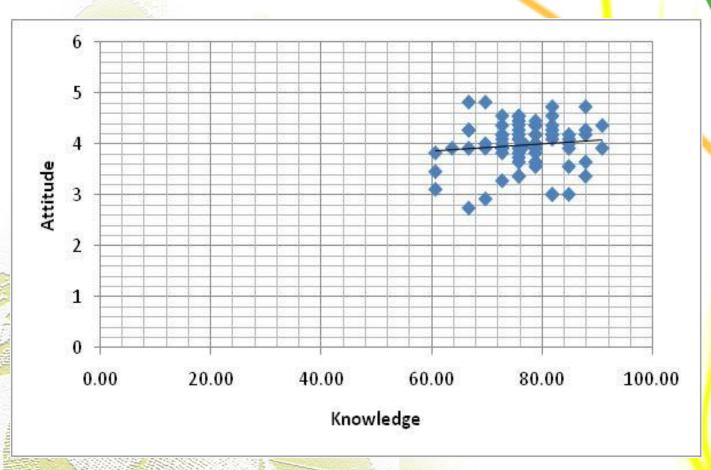
- •if **Braden scale is better than their clinical judgment** when assessing the patient at risk of pressure ulcer (68%)
- •if Patients tend to get pressure ulcer nowadays (42%)



Relationship between Knowledge of Staff Nurses in Pressure Ulcer Prevention and their Attitude towards the Use of Braden Scale

Correlation Coefficient (Pearson's r)

r = 0.1141465 *Weak Positive*





Relationship between Knowledge of Staff Nurses in Pressure Ulcer Prevention and their Attitude towards the Use of Braden Scale

	2				
Correlation Coefficient (r)	Level of Significance	Degree of Freedom (df)	Critical Value (CV)	Compute d t-Value	Decision
0.11414654	0.05	75	1.990	0.995042	Accept the
(Weak					Ho
Positive)		1 A			

*There is no significant relationship between the knowledge of nurses in pressure ulcer prevention and their attitudes towards the use of Braden Scale.

CONCLUSIONS

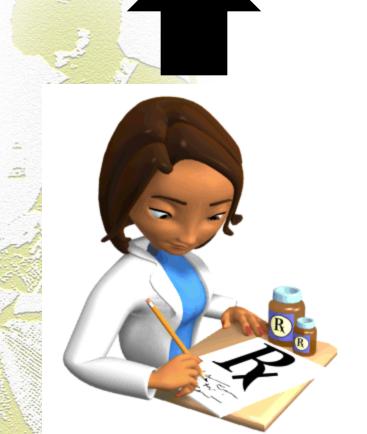
Knowledge of nurses in Pressure Ulcer Prevention CANNOT BE A BASIS in assessing their Attitude towards the Use of Braden Scale





CONCLUSIONS

KNOWLEDGE





RECOMMENDATIONS

NURSING PRACTICE

Applying pressure ulcer prevention and risk assessment in the clinical area would be very important





NURSING EDUCATION

Continuous Education

Emphasize and teach the importance and the different ways of pressure ulcer prevention and use of Braden scale to nursing students

RECOMMENDATIONS

NURSING AMINISTRATION

 Boosting Nurses' Knowledge through Staff training and Seminars

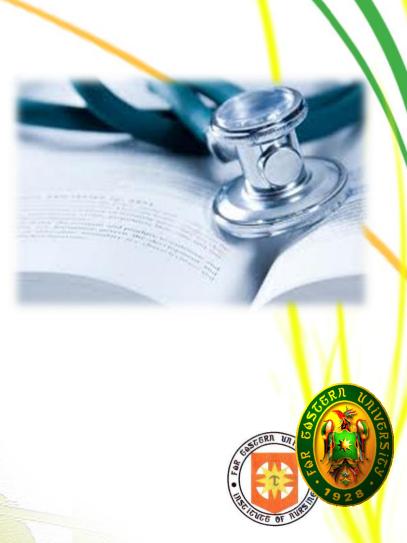
2. Re-Evaluation of Staff nurses



RECOMMENDATIONS

NURSING RESEARCH

- 1. Conduct Multi-local Research
- 2. Increase number of respondents
- 3. Assess the other variables which might affect the knowledge and attitude of nurses (e.g. hospital area where they are assigned, and other demographic data).



BOOK

Polit, D.F., &Beck, C.T. (2008). Nursing Research: Generating and Assessing Evidence for Nursing Practice (8th Ed.).

Lippincott Williams & Wilkins: Philadelphia, pp. 56-61, 274-279, 557-610

JOURNAL

Athlin, E., &Idvall, E. (2010). Factors of importance to the development of pressure ulcers in the care trajectory: perceptions of hospital and community care nurses.

Journal of Clinical Nursing, 19(15): 2252-8. Retrieved from http://www.ebscohost.com.

JOURNAL

- D., & Estrella, E. P. (2011). Pressure ulcer incidence and risk factors among hospitalized orthopedic patients: results of a prospective cohort study. Ostomy Wound Management, 57(10), 64-69.
- Lai A & Ng M. Pressure sores A nursing problem? Hong Kong Nursing Journal 1991; 6(55):15-18.
- Ministry of Health. Clinical Practice Guidelines 1/2000 Prediction and Prevention of Pressure Ulcers in Adults. Ministry of Health, Singapore: 2001

JOURNAL

- Moore, Z. & Price, P. (2004). Pressure ulcer prevention: Nurses' knowledge, attitudes and behavior. *Journal of Wound Care*, 13(8), 330-334
- Pieper, B. & Caliri, M.H.L. (2002). An international partnership: impacting wound care in Brazil. *J WOCN*, 29(6):287–294. Retrieved from http://www.ebscohost.com
- Samuriwo, R. (2010). The impact of nurses' values on the prevention of pressure ulcers. *British Journal of Nursing*, 19 (15), S4-S13. Retrieved from http://www.ebscohost.com

JOURNAL

Wann-Hansson, C., Hagell, P., & Willman, A. (2008). Risk factors and prevention among patients with hospital-acquired and preexisting pressure ulcers in an acute care hospital. Journal of Clinical Nursing, 17,1718-1727. doi:10.1111/j.1365- 2702.2008.02286.x.

INTERNET

Pressure Ulcers Increasing Among Hospital Patients. AHRQ News and Numbers, December 3, 2008. Agency for Healthcare Research and Quality. Retrieved from http://www.ahrq.gov/news/nn/nn120308.htm.

KNOWLEDGE of NURSES in PRESSURE ULCER PREVENTION and their ATTITUDE towards



the use of BRADEN SCALE



JOEMER CALDERON MARAVILLA, BSN

FAR EASTERN UNIVERSITY
Institute of Nursing
Manila, PHILIPPINES