KNOWLEDGE of NURSES in PRESSURE ULCER PREVENTION and their ATTITUDE towards the use of BRADEN SCALE

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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)
BACKGROUND of the STUDY

- 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)*

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**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)*
BACKGROUND of the STUDY

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)*
BACKGROUND of the STUDY

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

(American Journal of Nursing, 2007)
National Patient Safety 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)
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)*
Wann-Hansson and William, 2007; Miyazaki, Caliri, and dos Santos, 2010
...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)
Investigate the relationship between the Knowledge of Nurses in pressure ulcer prevention and their Attitude towards the use of Braden scale.
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?
METHODOLOGY

Design
Descriptive Correlational Design

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

POPULATION and SAMPLE

Sampling Method
Purposive Sampling

Inclusion Criteria
- 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

<table>
<thead>
<tr>
<th>Demographics</th>
<th>f</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>N = 77 (Age: 23 – 63 yrs. old)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Response Rate = 67%</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gender</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>15</td>
<td>19.48</td>
</tr>
<tr>
<td>Female</td>
<td>62</td>
<td>80.5</td>
</tr>
<tr>
<td>Hospital</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Center A</td>
<td>39</td>
<td>50.65</td>
</tr>
<tr>
<td>Medical Center B</td>
<td>38</td>
<td>49.35</td>
</tr>
<tr>
<td>Ward</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medical Ward</td>
<td>32</td>
<td>41.55</td>
</tr>
<tr>
<td>Surgical Ward</td>
<td>3</td>
<td>3.9</td>
</tr>
<tr>
<td>Orthopedic Ward</td>
<td>3</td>
<td>3.90</td>
</tr>
<tr>
<td>Intensive Care Unit</td>
<td>39</td>
<td>50.65</td>
</tr>
</tbody>
</table>
## METHODOLOGY

### RESEARCH INSTRUMENTS

<table>
<thead>
<tr>
<th>Modified Instrument</th>
<th>Items</th>
<th>Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pieper’s Pressure Ulcer Knowledge Test</td>
<td>33</td>
<td>0.81</td>
</tr>
<tr>
<td><em>(Pieper and Caliri, 2002)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attitude Identification Tool</td>
<td>11</td>
<td>0.84</td>
</tr>
<tr>
<td><em>(Moore and Price, 2004)</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
 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
# RESULTS

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

<table>
<thead>
<tr>
<th></th>
<th>Mean</th>
<th>Interpretation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge in Pressure Ulcer Prevention</td>
<td>76.94</td>
<td>Inadequate Knowledge</td>
</tr>
<tr>
<td>Attitude towards the Use of Braden Scale</td>
<td>3.97</td>
<td>Positive Attitude</td>
</tr>
</tbody>
</table>
## RESULTS

### KNOWLEDGE

<table>
<thead>
<tr>
<th>Item</th>
<th>Answer</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is important to massage bony prominences</td>
<td>False</td>
<td>72.37%</td>
</tr>
<tr>
<td>Donut devices/ring cushions help to prevent pressure ulcers</td>
<td>False</td>
<td>88.31%</td>
</tr>
<tr>
<td>Heel protectors like gloves filled with water relieve pressure on the heels</td>
<td>False</td>
<td>79.22%</td>
</tr>
</tbody>
</table>
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%)
RESULTS

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%)
RESULTS

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*
RESULTS

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

<table>
<thead>
<tr>
<th>Correlation Coefficient (r)</th>
<th>Level of Significance</th>
<th>Degree of Freedom (df)</th>
<th>Critical Value (CV)</th>
<th>Computed t-Value</th>
<th>Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.11414654 (Weak Positive)</td>
<td>0.05</td>
<td>75</td>
<td>1.990</td>
<td>0.995042</td>
<td>Accept the Ho</td>
</tr>
</tbody>
</table>

*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 ADMINISTRATION

1. 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).
REFERENCES

BOOK


JOURNAL


References

Journal


REFERENCES

JOURNAL


INTERNET

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