NURSES’ VIEWS ON CHALLENGES IN ELDERLY CANNULATION: A SURVEY

Maswinda Sari Haji Zainal, Nuramalina Abd Rahman, Rozita Haji Tamin, Zainatul Ashiqin Haji Salleh, Liling Chaw, Khadizah H. Abdul-Mumin, Munikumar Ramasamy Venkatasalu

1BSc Nursing Candidates, 2Lecturer (Nursing/Midwifery), 3Lecturer (Biostatistics/Public Health),
4Assistant Professor, 5Professor in Cancer and Palliative Care,

Universiti Brunei Darussalam, PAPRSB Institute of Health Sciences,
Negara Brunei Darussalam.
05 April 2017
Presenter

Rozita binti Haji Tamin
Lecturer (Nursing)
Pengiran Anak Puteri Rashidah Sa’adatul Bolkiah Institute of Health Sciences (PAPRSB IHS), Universiti Brunei Darussalam [UBD]

rozita.tamin@ubd.edu.bn
Negara Brunei Darussalam

- Nation of Brunei
- Abode of Peace
- نڬارا بروني دارالسلام
The Sultan of Brunei

His Majesty Sultan Haji Hassanal Bolkiah Mu'izzaddin Waddaulah Ibni Al-Marhum Sultan Haji Omar Ali Saifuddien Sa'adul Khairi Waddien.
Universiti Brunei Darussalam (UBD)
Pengiran Anak Puteri Rashidah Sa’adatul Bolkiah Institute of Health Sciences (PAPRSB IHS), UBD
Pengiran Anak Puteri Rashidah Sa’adatul Bolkiah Institute of Health Sciences (PAPRSB IHS), Universiti Brunei Darussalam
NURSES’ VIEWS ON CHALLENGES IN ELDERLY CANNULATION: A SURVEY

1Maswinda Sari Haji Zainal, 1Nuramalina Abd Rahman, 2Rozita Haji Tamin, 2Zainatul Ashiqin Haji Salleh, 3Liling Chaw, 4Khadizah H. Abdul-Mumin, 5Munikumar Ramasamy Venkatasalu

1BHSc Nursing Candidates, 2Lecturer (Nursing/Midwifery), 3Lecturer (Biostatistics/Public Health),

4Assistant Professor, 5Professor in Cancer and Palliative Care,

Universiti Brunei Darussalam, PAPRSB Institute of Health Sciences, Negara Brunei Darussalam.

Module: HN 4226 Research Project
NURSES’ VIEWS ON CHALLENGES IN ELDERLY CANNULATION: A SURVEY

Outline:

• Background of the study
• Research question
• Methodology
• Findings
• Conclusion
Background of the study
Increasing number of aging population globally leads to steady increase of usage of hospital services by older people.

Characteristics

- Older people’s veins are more prominent, but fragile and easily damaged to venipuncture due to the aging process which also may be exacerbated by hypothermia that may cause vasospasm (Fabian, 2010).

Current Method

- The existing vein finder has demonstrated improved venipuncture in invisible veins and reduce failure rate in the elderly, however it cannot prevent the risk of accidental arterial puncture during cannulation.
Aim:

• To explore nurses’ views on challenges in cannulation practices on older people.
Objectives to:

1. discover nurses experiences of traditional methods of elderly cannulation.

2. identify nurses views on challenges of using traditional method in elderly cannulation.
Research Questions:

• What are the nurses’ current level of knowledge, attitude and practice of elderly cannulation procedure in Brunei Darussalam?

• What are the nurses’ views on challenges of using conventional method and in performing elderly cannulation?
Methodology
Settings:

- Nurses at Raja Isteri Pengiran Anak Saleha (RIPAS) Hospital and Suri Seri Begawan (SSB) Hospital
- Medical Department
- Surgical Wards
- Accident and Emergency Department
Sample Size:

- Distributed to 100 nurses
- 80% responded
Instrument Used:

- Self-developed questionnaires with both open and close ended questions were piloted & used.

- Data were analysed descriptively using R software (version 3.3).
Questions
Theme:

1. Demographics - Working experience and working environment

2. Knowledge – Physical assessment, method use to aid in elderly cannulation.

3. Attitude – Appropriateness of using current cannula and level of satisfaction on performing elderly cannula.

4. Practice – The frequency and duration for successful elderly cannulation.
Findings
Working Experience

- LESS THAN 1 YEAR: 1.2%
- 1 TO 5 YEARS: 27.5%
- 6 TO 10 YEARS: 15%
- ABOVE 10 YEARS: 56.3%
Physical Traditional Method Assessment

- Palpation: 78.7%
- Warm Towel: 5%
- Tourniquet: 56.2%
- Flick Skin: 61.3%
Nurses’ Views on Using Current Traditional Method

94.9% AGREE

5.1% DISAGREE
Frequency of Vein Finder Usage on Elderly

- **ALWAYS**: 2.7%
- **MOST OF THE TIME**: 5.4%
- **SOMETIMES**: 78.4%
- **NEVER**: 3.5%
Conclusion
The current vein finder device available at the RIPAS and SSB hospitals are not specifically designed for older people.

This may be the likely cause that the device was not consistently and frequently used by the nurses. Hence the preference to use the traditional methods of assessing older people’s vein.

Further research should be carried out to improve cannulation techniques for elderly.
Acknowledgement

- Universiti Brunei Darussalam (UBD)
- Vice Chancellor UBD and University Conference Leave and Conference Grant committee
- AVC of Research and Innovation, Professor David Koh
- PAPRSB Institute of Health Sciences
- Dr. Hjh Rafidah Hj Gharif, Dean PAPRSB IHS
- AP Dr Anne Cunningham, Deputy Deans PAPRSB IHS
- Professor Munikumar R Venkatasalu, Professor in Nursing PAPRSB IHS
- Ms. Armah Tengah, Programme Leader for Nursing and Midwifery programme
- Maswinda Sari Haji Zainal and Nuramalina Abd Rahman, BHSc Nursing, PAPRSB IHS, UBD
End of Session

Terima Kasih