Effectiveness of modified felted foam dressing for chronic plantar ulcer in leprosy patients at Raj pracha samasai Leprosarium Samutprakan

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Introduction

- the most common ulcer among people affected by leprosy was chronic plantar ulcer
- the average time that persons affected by leprosy had suffered this type of ulcer was 5 year per person
- it was unavoidable affected the quality of life
- this research was done to study the effectiveness of felted foam dressing in curing chronic plantar ulcer.
Research Question

What is the effectiveness of the modified felted foam in dressing chronic plantar ulcer
Felted Foam Dressing

Personal Factors
- Age
- Sexuality
- Status
- Education
- Income
- Type of Deformity
- Underlying Disease

- Healing of Plantar ulcer
- Satisfaction of patient

FRAME WORK
Methodology

- one group pretest-post test design to compare the effectiveness of ulcer care in leprosy patients who lived in the leprosarium and attended ulcer care service at chronic ulcer clinic
- study volunteers were 30 persons affected by leprosy who had chronic plantar ulcers
Experimental steps

1. interviewed study subjects for their chronic plantar ulcer treatment and underlying diseases
2. ulcer dressing was provided on daily bases by ESSO
3. felted foam dressing was used to cover the ulcer to reduce the pressure on an ulcer
4. measured the ulcer size every 2 week until being healed or the end of the project
5. damaged, inflexible, or dirty felted foam dressing was changed
6. took an ulcer photograph at the first and last evaluation
ESSO

E : Evaluate

S : Soaking

S : Scrapping

O : Oiling
Analysis and statistic

1. Paired – Sample T - Test was used to identify the correlation of pre and post size of ulcers.

2. One Way Anova and Independent Sample t – test were used to analyze correlation between contributing factors and duration taken for ulcer curing.

3. *Pearson Correlation* Coefficient was used to analyze the correlation between age and duration taken for ulcer curing.

4. There was also significant positive association between age and duration taken for ulcer care.
Felted foam dressing (Rubber Ring)
Materials and Methods
Result

1. The size of ulcers of the study subjects were significantly smaller than before.

2. Most of study subjects’ ulcers were cured (96.9%) within eighth week.

3. There was only one subject who had 20mm ulcer that was not completely cured.
Result

4.87.5% of study subjects were satisfied with the treatment.

5. There was significant positive association between marital status and the size of plantar ulcer before intervention, and duration taken for ulcer curing.

6. There was also significant positive association between age and duration taken for ulcer care.
Suggestion

1. Feet health records should be produced for patients who have plantar ulcers.

2. Experimental study should be further carried out to compare the effectiveness of applying felted foam dressings between control and experimental groups or compare the effectiveness of different wound care dressing.

3. Self care behavior of the study subjects should also be included as expected contributing factor in the further study.
THANK YOU