

Dissertation At



THE IMPACT OF HOLISTIC WOUND CARE AT HOME ON THE WOUND HEALING PROCESS

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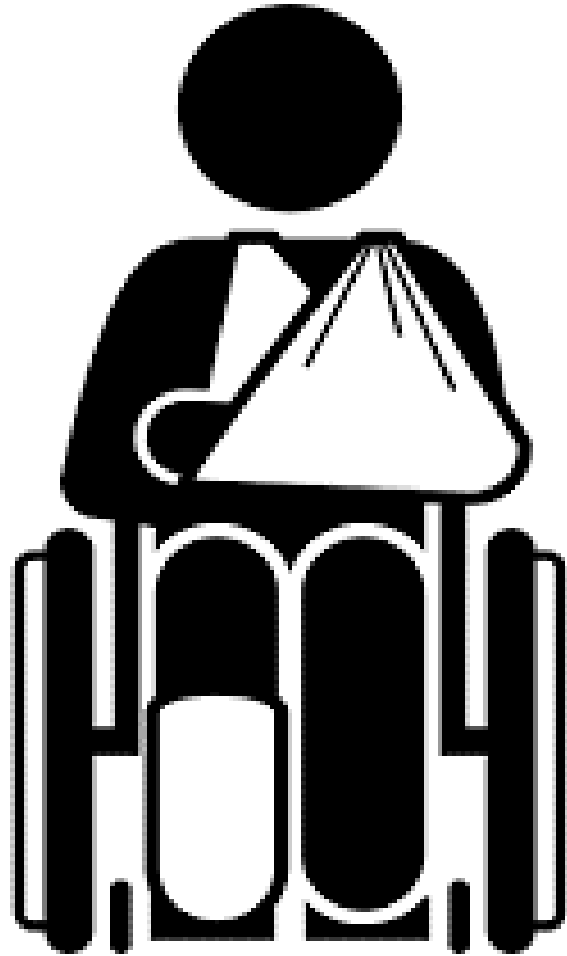
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INTRODUCTION



WHAT IS A WOUND



- ❖ Refers to any sort of breakage to the skin's surface. A harm brought on by a variety of events, including hits, falls, accidents, and more
- ❖ A wound can be minor or fatal, depending on its cause, location, and depth
- ❖ The majority of wounds are superficial and only affect the top layers of skin. Some penetrate further, reaching the organs and tissues beneath

WHEN IS WOUND CARE NEEDED?



One may need wound care if one has:

- ❖ Non-healing wounds
- ❖ Wounds that haven't improved over two weeks
- ❖ Wounds that have worsened, and you need a new treatment plan
- ❖ Complex wound care needs
- ❖ Special catheters
- ❖ Complicated treatment orders
- ❖ New Stage III and IV pressure ulcers
- ❖ Needs for preventative skin measures (e.g., appropriate support surface, moisture management)
- ❖ Conditions that make wound care a challenge, including diabetes and heart disease

ACUTE AND CHRONIC WOUND



ACUTE WOUND

❖ Any damage to the skin that happens suddenly rather than gradually is referred to as an acute wound

❖ It recovers at the predictable and anticipated rate of a typical wound recovery procedure



Burns



Surgical Wounds

CHRONIC WOUND

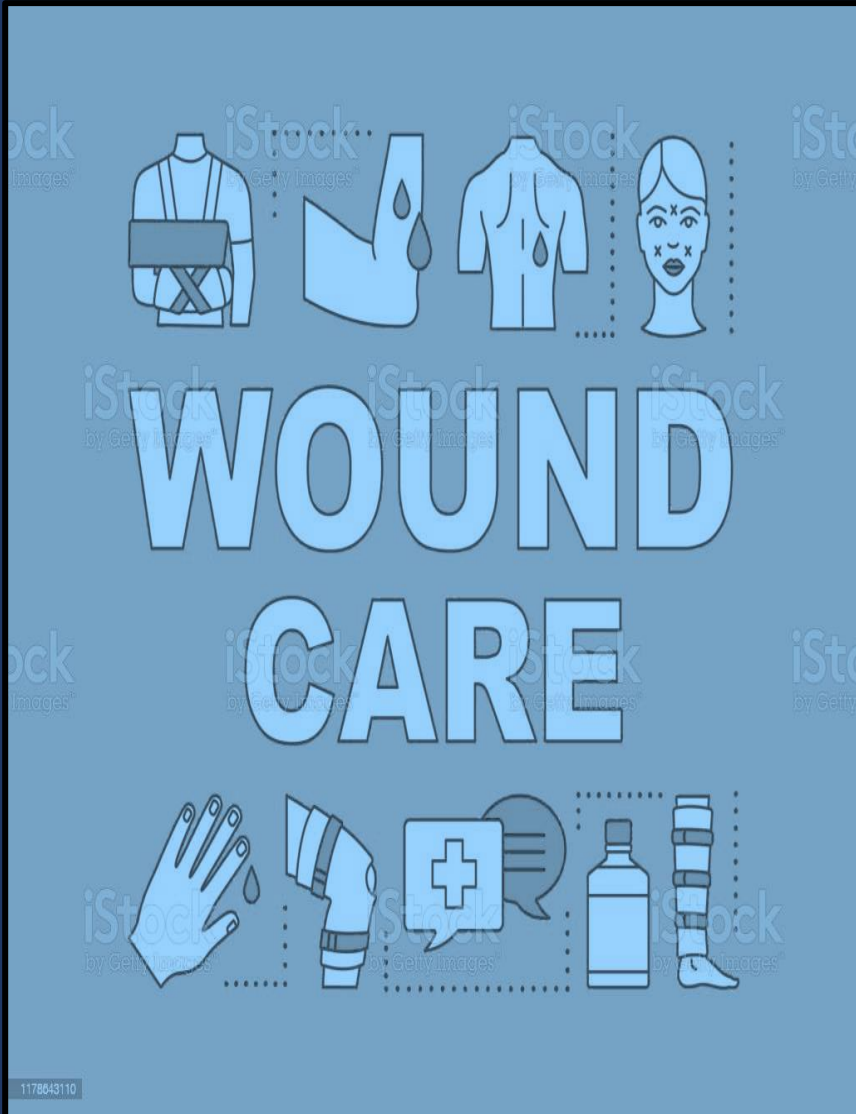
❖ Chronic wound doesn't recover in the typical predictable period of time.

❖ They frequently spend too much time in the inflammatory stage



- Diabetic Foot Ulcer
- Venous Ulcer
- Pressure Ulcer
- Arterial Ulcer

WOUND CARE AT HOME



❖ Wound care is an ongoing treatment of a wound, by providing appropriate environment for healing, by both direct and indirect methods

❖ Proper Management is determined by the wound's size, depth, severity and location over the care period

The Importance of Wound Care at home in Recovery:

- ❖ Preventing Infection
- ❖ Speeds Healing
- ❖ Prevents Complications

INFECTED WOUNDS



Areas where
Home wound
care is needed



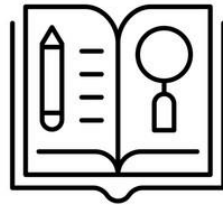
ADVANCE WOUND CARE:

- ❖ Wounds requiring frequent dressing changes
- ❖ Pressure ulcers
- ❖ Amputations
- ❖ Diabetic ulcers
- ❖ Osteomyelitis
- ❖ Peripheral artery disease
- ❖ Venous stasis
- ❖ Post-trauma
- ❖ Burns
- ❖ Arterial wounds

POST -OPERATIVE WOUNDS



REVIEW OF LITERATURE



PAPER TITLE	AUTHORS	YEAR OF PUBLICATION	STUDY LOCATION	METHOLOGY USED	ABOUT THE PAPER
Wound Healing Outcomes using a Standardized Assessment and Care in Clinical Practice	Laura Bolton, Patrick McNees, Lia van Rijswijk, Jean de Leon	2004	Home care agencies- acute care hospital, long term care facilities	Prospective multicenter study examined how to control wound-healing results in actual clinical settings.	The study was conducted on patients at 12 home care agencies, to understand the healing outcomes. It was discovered that natural healing outcomes and assistance in locating and treating wound care problems. Results using nongauze care procedures were mostly matched.
Wound prevalence, types, and treatments in home care setting	Pieper, Barbara, Templin, Thomas N.	1999	Home care agencies in Michigan	Multisite, Descriptive- using systemic sampling	2847 patients were chosen for the study. 36.3 percent of patients had wounds, and the most common method for treating them was using gauze and tap water. It was noted that nurses require more time to offer care.
Management of In-Home Wound Care Using Information Technology	Gina Litzinger, Therese Rossman, Barbara Demuth, Jay Roberts	2007	United States of America	Impact analysis and a cost-benefit analysis were performed during a two-year longitudinal descriptive evaluative research project	The study found that health organizations lack highly educated workers to effectively monitor and manage these wounds, chronic wounds create a significant healthcare concern. As a result, to appropriately care for patients with chronic wounds, the home health industry has to develop wound management techniques and technologies.

PAPER TITLE	AUTHORS	YEAR OF PUBLICATION	STUDY LOCATION	METHODOLOGY USED	ABOUT THE PAPER
Clinical result of negative pressure wound treatment on diabetic foot and the shift from acute to home care	Stephaine C Wu, David G Armstrong	2008	Unites States of America	Quantitative Statistical Analysis	The study found that ulcers are the cause of 84 percent of lower extremity amputations linked to the disease, and they double the risk of death in diabetics compared to those without ulcers. Randomized controlled trials that evaluated clinical outcomes in diabetic wounds following open foot amputations revealed that NPWT administered using the V.A.C. Therapy System produced a favorable outcome.
Observations and Advice from the Bedside Regarding the Application of Wound Care Guidelines	Jan Lloyd-Vossen	2009	NA	Systematic review of guidelines	The study found that one of the best instruments for raising the calibre of healthcare appears to be clinical practice guidelines. Adoption of wound care guidelines in particular has been demonstrated to enhance patient results.

METHODOLOGY





RESEARCH QUESTION

What is the impact of holistic wound care at home have on the wound healing process?



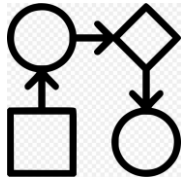
RESEARCH OBJECTIVES

1. To study the present worldwide framework and services for wound care
2. To study the processes underlying the home care-wound-healing cascade and then figure out how to control them in order to hasten healing or prevent negative effects.
3. To make suggestions for enhancements and extra targeted wound-care services that can offer comprehensive wound care at home.



RESEARCH DESIGN

This was secondary research, using publishes articles and online resources



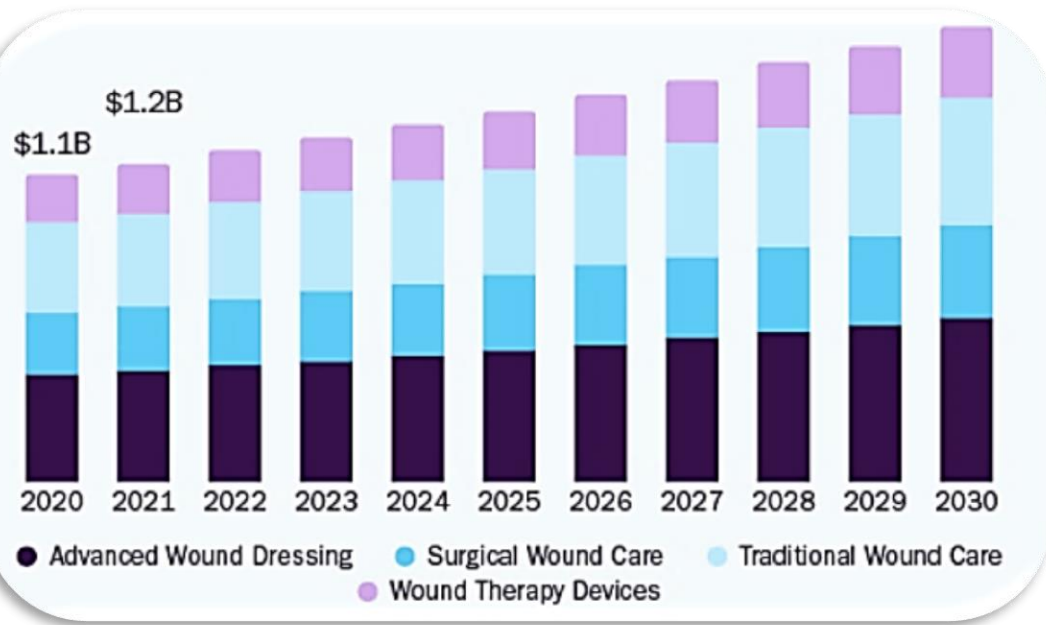
RESEARCH PROCEDURE

There were 35 research articles were reviewed on wound care at home framework using the key words wound acute and chronic wound care, out of which 15 papers were found to be relevant to understand the gap of the existing wound care at home framework.

RESULTS



CURRENT WORLD-WIDE WOUND-CARE SYSTEMS AND SERVICES



❖ The size of the worldwide wound care market was estimated at USD 20.6 billion in 2021, and it is anticipated that it will increase at a CAGR of 4.1 percent from 2022 to 2030.

❖ 4.5% chronic wounds for every 1000 people in the community

❖ 10.5% acute wounds for every 1000 people

❖ Rise in surgical procedures and the incidence of chronic diseases worldwide, there is a rising demand for wound care solutions

Advanced Wound Care



- ❖ Advanced Wound Care offers specialist care for sores or wounds that have not considerably healed throughout the course of standard treatment

- ❖ Oversight from wound care specialists, and an environment with an environment that is conducive to an environment of safety



Wounds that requires Advanced Wound Care

Venous Stasis

Arterial Wounds

Amputations

Osteomyelitis

Necrotizing fasciitis

Diabetic ulcers

Infections that requires
IV antibiotics

Advanced Wound Care



Advanced Wound Care market expansion is fueled by

- ❖ The rise in diabetes prevalence (leading to diabetes ulcers and other diabetes related wounds)
- ❖ the widespread prevalence of obesity
- ❖ the global trend toward more and more surgical treatments.



Effects of Covid-19 on the Market for Advanced Wound Care Worldwide

- ❖ The production of advanced wound care products was greatly impacted.
- ❖ innovative wound care products experienced an all time low

Post- Operative Wound Care



❖ A post operative wound is a cut in the skin that occurs during surgery and is often created with a scalpel

❖ It develops as a result of a surgical drain that is introduced during the treatment.

❖ They come in a variety of sizes, and while they are frequently stitched shut, on occasion they are left open to heal.

Post- Operative Wound Care



It is divided into four groups depending on the level of contamination or cleanliness of the wound

Class I

- These wounds are regarded as clean wounds
- They frequently affect the vascular system, skin, or eye.

Class II

- They are regarded as clean-contaminated wounds.
- Even while the wound might not be showing any symptoms of infection, its position makes it more likely to become so.

Class III

- A post-operative wound that has had touch with an outside object has a significant risk of infection and is called to as a contaminated wound.

Class IV

- This kind of wound is seen as being tainted by dirt.
- These include injuries that have come into contact with faeces.

Traditional Wound Care



Wound care experts have turned back to the old healing techniques by adopting traditional and alternative medicine

Common types of traditional wound dressings

Bandages

Body Netting

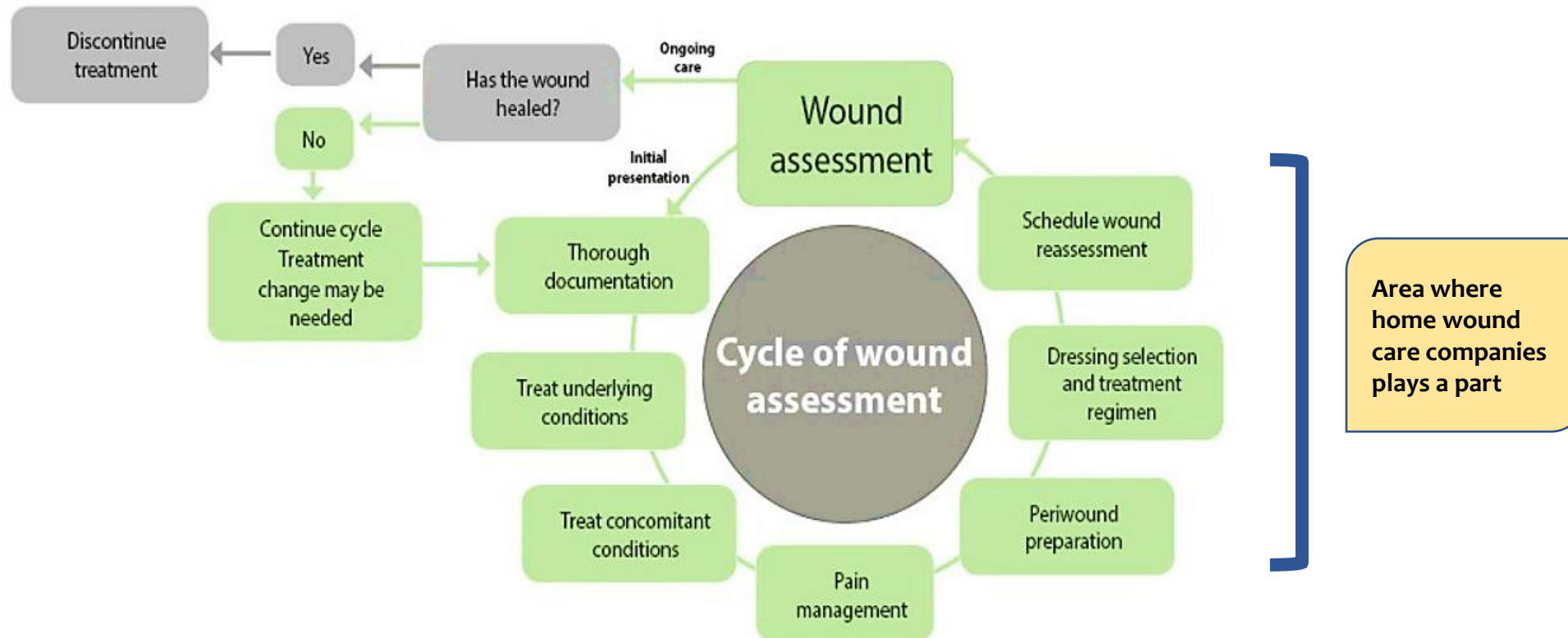
Cohesive Wraps

Composite Dressing

Gauze

Non-adherent Dressings

MECHANISMS BEHIND THE HOME CARE- WOUND-HEALING CASCADE



Home Wound Care Services for Acute and Chronic Wounds



The Nurse first starts with Wound Cleansing

STEP

1

- ❖ Removable of visible debris and devitalised tissue
- ❖ Removable of any kind of previous dressing residue
- ❖ Removable of excessive or dry crusting exudates
- ❖ Removable of any contamination

- Safeguard important components and areas, the aseptic method approach is used by nurses.
- Making sure that the Cleansing is carried out with as little stress to the wound
- Cleaning wounds with sterile, isotonic saline or warm water

Choice of dressing

STEP

2

- ❖ Moisture management has been shown to be a crucial component of wound care by a wealth of research.
- ❖ On the pace and quality of healing, the right dressing can make a big difference.
- ❖ The right dressing will be chosen to reduce bacterial contamination and the discomfort related to wound care.

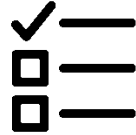
Continuous Monitoring

STEP

3

- ❖ The nurses' additional duties include making sure they regularly perform the dressing activity and ensure that they continuously check the wound after the initial stages have been successfully performed.

How a Patient can avail home-wound care services



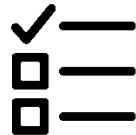
STEP- 1

First step being, Registering on Portea's Website



STEP- 2

The team quickly helps, and make a reservation and goes over the roles and responsibilities of the nurses with you.



STEP- 3

Then they will make sure that a nurse is chosen who best meets the needs of the patient.



STEP- 4

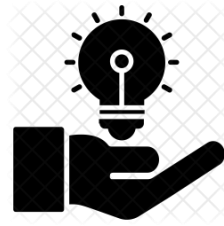
And voila! An angel of health has come to your house to assist your loved one in their healing process.



CONCLUSION

- ❖ In the comfort of their own homes, patients who receive wound care at home have a greater percentage of recovery and healing.
- ❖ The elderly can benefit from wound care provided by home health care services, but people of all ages are choosing this option as well.
- ❖ Given that we are looking at a spectrum of wounds from minor to large to highly complex, there are still a number of areas where wound care delivered by home-care services should be improved.
- ❖ In order to provide treatment for a wide variety of wounds, home care organisations should implement new technologies as soon as possible.
- ❖ Level of knowledge of Nurse on wound care, plays a pivotal role in home wound care field
- ❖ The best method for providing wound care at home is observed to be evidence-based practise, but home-care providers have yet to recognise this and begin utilising it.

RECOMMENDATIONS





WAYS TO IMPROVE EFFECTIVENESS IN WOUND CARE AT HOME

EVIDENCE-BASED PRACTICE



Utilize the best external evidence



Draw on individual clinical expertise

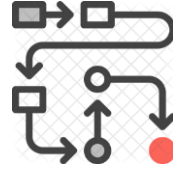


Consider patient values & expectations

- ❖ Process of incorporating clinical experience and patient expectations with research information in order to make judgments regarding the care of specific patients

- ❖ The dedication to conducting independent research in an effort to increase the body of knowledge regarding all aspects of wound care
- ❖ The dedication to conducting qualitative wound care research to collect rich data on both patients' and clinicians' experiences with all facets of wound management
- ❖ Programmes for professional development and pre-registration/undergraduate wound care education that are more structured
- ❖ Nursing executives and managers' dedication to fostering innovation and best practises through continuing governance and auditing activities.

EVIDENCE BASED PRACTICE PROCESS FLOW



GENERATION OF EVIDENCE

KNOWLEDGE TRANSFER

Consider and put into practise the most recent, therapeutically applicable, and reliable research.

INDIVIDUAL CLINICAL EXPERTISE

Utilize the things that have and haven't worked for you personally in your therapeutic practice.

PATIENT'S VALUES AND EXPECTATIONS

Consider about and valuing your patients' unique preferences/perspectives



USE OF ADVANCE TECHNOLOGY IN WOUND CARE



WOUND 	PATIENT 	EFFECTIVE HOME WOUND CARE SERVICES BY NURSES
Ulcers • Venous • Arterial • Diabetic Foot • Pressure	Primarily patients with diabetes	• Routine monitoring of blood glucose levels • Daily wound cleaning, use of a bandage or wound dressing • VAC treatment (vacuum-assisted closure) • Total contacting casting (TCC) • Antibacterial therapy
Post-Operative Wounds Or Surgical Wounds	Patients that have wounds from an operation/surgery	• Regular wound washing and dressing • Antibacterial therapy • Managing the patient's diet
Burns	Patients with minor to major burn wounds	• Regular dressing and cleansing of the burn wounds • Burn creams and ointments • IV fluids to prevent dehydration



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THANK YOU

