## Tap Water: An effective alternative to Normal Saline in the Community?

In a community and primary health setting wound management and care is a major health problem that effects many patient groups. The initial cleaning of a wound is extremely important as it sets up the wound with an adequate environment to begin the healing process. Providing the water is safe to drink, tap water is a cost effective, readily available and safe alternative to saline when preparing a wound bed with an optimal healing environment (Bee et al, 2009).

## Benefits Using Tap Water

Tap water is readily available to people in the community and general practises.

Several studies have come to the conclusion that using tap water to cleanse soft tissue wounds results in reduced infection rates. Weiss (2013) study find that out of 625 people, 20 participants treated with cleansing. saline suffered infections vs 11 participants treated with tap water.

For chronic wound suffers in the community the use of tap water meant people have more independence over their wound management. For example, showering could be possible for people suffering from ulcers. Selim (2001) interviewed such people who claimed they "felt better" and "clean".

the healthcare system per year.

by reducing the amount of waste containers.

## Considerations when deciding to Utilise Tap Water

Studies throughout the literature excluded people with, major wounds with bones or tendons directly involved or, people with underlying immune deficiency syndromes and diabetes suffers who presented with wounds either chronic or acute. These clients were treated with the traditional normal saline suggesting that the normal saline and the sterile technique remains the superior solution in wound

Nurse's when working with people need to consider if the patient is an appropriate candidate for using tap water.



## What this means for Nurse's

Literature supports nurses to effectively work with clients in the community/general practice setting. Having available Using tap water for appropriate tap water allows nurses to work alongside the client and wounds reduces the cost to general educate best practice of how to use tap water effectively practices and clients. Weiss (2013) to irrigate soft tissue wounds or lacerations safely, thus estimating a \$10million US saving to creating a safe and independent environment for maintaining the client's own health. Example, assisting the elderly in their own homes to preserve their independence by Using tap water over saline can aid utilising the clean tap water method for ulcers or skin tears in reducing our carbon foot print they may obtain from everyday activities.

Selim, P & Bashford, C & Grossman. (2001). Evidence - Based Practice: Tap Wathat comes for discarding the saline ter Cleansing of leg ulcers in the Community. Journal of Clinical Nursing. Weiss, E, A & Oldham G & T & Lin, M & Foster, T & Quinn J V. (2013). Water is a safe and effective alternative to sterile normal saline for wound irrigation prior to suturing: a prospective, double-blind, randomised, controlled clinical trial. Division of Emergency Medicine.