

## RNFOO Ultrasound Debridement Inaugural Award C Murphy PhD RN WOCC(C)

Project Report Nov 10 2022

Ultrasound debridement is a method of improving wound healing potential for vulnerable patients and application by a nurse improves access to quality care.

Where you are now on the project: 100% treatments are completed.

How you intend to move it forward: Full report to be submitted as an abstract to a Wound Conference. Financial analysis component started to finalize the project.

Revised timeline and estimated date of completion: Clinical component is completed.

January/February 2023 anticipated completion of Financial analysis and final report.

Challenges going forward: Clinical component limited by Covid now finished. Financial analyst time not anticipated to be a barrier.

How much of the award funds remain: \$9050. Financial Analyst, publication cost and Research Assistant funds as anticipated to be paid in final months.

All tubings purchased \$4590.

Budget RNFOO	Budgeted	Activity			Actual
		19-Dec-19	20-Mar-21	1-Apr-21	
Grant received	13640	13640			13640
Tubings Purchased	4593	-2250	-450	-1890	-4590
Health economics analysis	6375				0
Publication fee	1750				0
Research assistant	922				0
<b>Balance</b>	<b>13640</b>				<b>9050</b>

The project launched with a hands-on workshop on 15 November 2019 for 10 nurses, during which time the internal Quality Improvement project plan process was put in place. The financial analyst was engaged to familiarize with the project and start a plan for financial evaluation.

The project was approved as a Quality Improvement focus in February 2020 and patient recruitment started immediately.

Patient 1 had a tibial wound for greater than 10 years to prepare for skin graft closure of the wound.

Patient 2 had a partial foot amputation that was not healing well and required a proactive treatment approach

A total of 8 patients had begun treatments at the time the Covid-19 epidemic closed all but essential services. At the time the financial analyst was following closely and engaged in the timely project.

The project was forced on hold since PPE is required for the procedure, and in-person visits were for emergency patients only.

On the week of June 19 2020 the project was re-initiated as clinic starts to gradually open up. However, a second and third pandemic wave further interrupted the ability to provide treatments. However, the effort continued to completion. In November 2022. The financial report and analysis are now underway.

Ultrasound debridement is a part of foundational wound preparation. Other avenues were underway during the clinic break which included virtual presentations to large audiences including International "WoundCon" conference and Wounds Canada about the innovative topic of wound hygiene. Ultrasound debridement is an integral part of this strategy and was described and the RNFOO award publicly referenced at each presentation.

This project is nearing completion. It remains the intention to demonstrate the impact of nurse-applied technology as a safe, cost-effective way of improving healing of hard-to-heal wounds thus reducing need for amputation.