

A Prospective Clinical Study on the use of the EZDebride Wound Instrument: The Oklahoma City Indian Wound Clinic

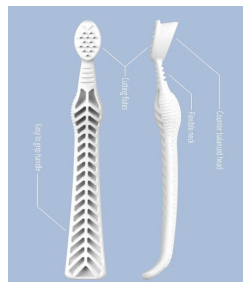
Abstract: A total of 13 patients with 21 wounds including DFUs, venous stasis, burn, post surgical, arterial, and pressure wounds participated in a clinical trial comparing pain, hemostasis, and complications with the use of the EZDebride Wound Instrument versus a surgical curette. Data was collected before and after sharp debridement with the patient's consent. **Methods:** Subjects were drawn from a single wound care clinic and assessed before and after sharp debridement based on a numerical scale pain scale. Further assessments were also ascertained based on the patients review of the ease of debridement and time as well as objective findings of complications including bleeding and pain management. A total of 18 patients were seen: 2 patients were healed, 2 patients did not require sharp debridement, and 1 patient opted out. **Results:** The EZDebride Wound Instrument demonstrated a reduction in pain on average by 2.84 points less in comparison to a curette, minimal to no bleeding, no follow on pain management, minimal time of debridement, and 100% patient satisfaction rates. The pictures below demonstrate before and after debridement using the EZDebride Instrument.



	Patient 1	Patient 2	Patient 3	Patient 4	Patient 5	Patient 6	Patient 7	Patient 8	Patient 9	Patient 10	Patient 11	Patient 12	Patient 13	
Date	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	11/9/2023	
Clinical Credential	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	
Patient Age	54	83	83	77	62	68	40	87	48	53	78	74	45	
History of DM	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	
Type of Ulceration	Venous Stasis Ulcer (2)	Pressure Ulcer	Pressure Ulcer / Decubitus	Venous Stasis / Arterial Ulcer	Post Surgical Dehiscence	Decubitus Ulcer	Traumatic Wound	Post Surgical Dehiscence	Post Surgical Dehiscence	Burn	Pressure Ulcer	Pressure Ulcer (2)	Pressure Ulcer (2)	
Wound Measurements	(L = 0.6) (W = 0.3) (D = 0.4) (L = 0.5) (W = 0.3) (D = 0.3)	(L = 2.0) (W = 0.5) (D = 0.2) (L = 4.8) (W = 4.1) (D = 0.3)	(L = 0.9) (W = 0.5) (D = 0.1) (L = 4.8) (W = 4.1) (D = 0.3)	(L = 2.9) (W = 2.0) (D = 0.3) (L = 0.9) (W = 0.2) (D = 0.2)	(L = 0.3) (W = 0.7) (D = 0.1)	(L = 4.1) (W = 3.1) (D = 1.4) (L = 5.1) (W = 4.7) (D = 0.3)	(L = 0.1) (W = 0.3) (D = 0.3)	(L = 1.1) (W = 1.2) (D = 0.3) (L = 5.1) (W = 4.7) (D = 0.3)	(L = 2.9) (W = 1.0) (D = 0.1)	(L = 0.6) (W = 0.9) (D = 0.8)	(L = 11.5) (W = 3.5) (D = 0.1) (L = 1.4) (W = 1.2) (D = 0.1)	(L = 1.1) (W = 1.3) (D = 0.5) (L = 0.2) (W = 0.7) (D = 0.2)	(L = 0.5) (W = 0.6) (D = 0.3) (L = 1.2) (W = 1.6) (D = 0.6)	(L = 1.6) (W = 1.2) (D = 0.6)
How long has the wound been present?	17 Weeks	3 Weeks	5 Weeks	8 Weeks	8 Weeks	52 Weeks	11 Weeks	7 Weeks	3 Weeks	44 Weeks	16 Weeks	9 Weeks	40 Weeks	
Pain of Wound Before Debridement (0/10)	7/10 6/10	4/10	0/10 0/10	8/10 8/10	8/10	0/10	6/10 6/10	0/10	4/10	8/10 8/10	0/10	6/10 6/10	3/10 3/10	
Pain of Wound Debridement with Curette/Scalpel (0/10)	9/10 9/10	9/10	3/10 3/10	9/10 9/10	10/10	0/10	4/10 4/10	0/10	1/10 7/10	7/10 7/10	0/10	0/10 0/10	0/10 0/10	
Pain of Wound Debridement with EZDebride (0/10)	7/10 6/10	2/10	0/10 0/10	5/10 5/10	0/10	0/10	0/10 0/10	0/10	1/10 1/10	1/10 1/10	0/10	0/10 0/10	0/10 0/10	
Time of debridement with EZDebride	52 Seconds 52 Seconds	83 Seconds	58 Seconds 31 Seconds	83 Seconds (both wounds)	58 Seconds	59 Seconds	108 Seconds (all)	69 Seconds	52 Seconds	48 Seconds 15 Seconds	51 Seconds	28 Seconds 36 Seconds	57 Seconds 63 Seconds	
How pleased was the patient with EZDebride?	"Very Pleased"	"Very Satisfied"	"Very Pleased"	"Very Pleased"	"Very Pleased"	"Very Pleased"	"Very Pleased"	"Very Pleased"	"Very Pleased"	"Very Pleased, Tickle"	"Very Pleased"	"Very Pleased"	"Very Pleased"	
Would the patient recommend EZDebride others?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

Melody Clanton APRN

Jessica Jones, LPN, Certified Wound Care Nurse
Kimberly Smith, LPN, Clinical Wound Care Nurse



- 21 Data Points were collected**
- 13 Patients: 21 Wounds were sharply debrided with the EZDebride Wound Instrument
 - Total number of Patients seen: 18 (2 patients were healed, 2 patients did not require debridement, 1 patient opted out of the study)
 - Types of Wounds: Pressure Ulcers, Venous Ulcers, Arterial Ulcers, Post Surgical Wounds, Diabetic Foot Ulcerations, and Burns
 - Age Demographics: 40-87 Years (11 males: 7 females)
 - Wound Range: (L = 0.3 , W = 0.2 , D = 0.2) To (L = 11.5 , W = 3.5 , D = 0.1)
 - 85% Chronic Wounds
 - 77% of Patients with Diabetes Mellitus Type II (1 patient with Diabetes Mellitus Type I)

- Key Findings**
- 100% of reported patients would recommend the EZDebride to friends and family
 - 7/13 patients had some degree of Diabetic Sensory Neuropathy
 - 100% of reported patients approved and were very satisfied of EZDebride
 - 13/13 Patients reported a reduction in pain by an average of 2.84 points
 - Average time of debridement: 46 Seconds vs 3 minutes on average with traditional methods based on clinical studies
 - 100% Satisfactory Results as reported by all 13 patients
 - No complications with the use of EZDebride (bleeding commonly seen with traditional methods)
 - 9/13 Patients reported complications of bleeding after the use of scalpel or curette for debridement



Average Pain: EZDebride vs Curette
Average Pain with a Curette: 4.14
Average Pain with EZDebride: 1.3

EZDebride
Reduction in pain by 2.84 points vs a Curette
No Curettes were utilized
Hemostasis was achieved with finger pressure/gauze PRN
100% Patient Satisfaction
100% Preference of the EZDebride over the Curette

