


We are called to make a healthy difference in people's lives.

ER Small Procedures

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NDAFP Annual Meeting
November 11, 2022

 Essentia Health

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Agenda

- Lacerations
 - Zip Skin Closure ®
 - Hair tying
 - LET
- Shoulder reduction
- Hematoma block/wrist fracture
- Foreign Body Removal
 - Fish hooks
 - Ear/Nose foreign bodies
- Ring Removal
- Epistaxis

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Objectives

- Build provider confidence
- Decrease procedure time
- Decrease patient discomfort
- Increase patient and provider satisfaction

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Disclosures

- None

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Lacerations – Zip Closure





Fig. 1.
Zip surgical skin closure device. Reproduced from Lalani GG, et al. *Pacing Clin Electrophysiol* 2016;39:1077-82, with permission was granted from Wiley Periodicals.[1]

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Lacerations

- 40 patients – ICD closure procedure
- Shorter closure time (78 vs 216 seconds)
- No difference in scar cosmesis vs suture
- No adverse events



LALANI GAUTAM G., et al. "Cardiac Device Implant Skin Closure with a Novel Adjustable, Coaptive Tape-Based Device." *Pacing and Clinical Electrophysiology*, vol. 39, no. 10, 13 Sept. 2016, pp. 1077-1082, 10.1111/pace.12926. Accessed 26 Nov. 2020.

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Lacerations – Hair Tying Technique



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Lacerations - Gloves

- Sterile vs Clean (nonsterile) Gloves



\$1.20 per pair



\$0.05 per pair

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Nahel, Dr Saleh, "Choosing Sterile vs Non-Sterile Gloves, Know Which One Is Best Relevant," Medrxiv, 24 Sept. 2021, medrxiv.com/sterile-vs-non-sterile-gloves/.

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- There was **no statistically significant difference** in the incidence of infection between the 2 groups.
 - The infection rate in the **sterile gloves group was 6.1%** (95% confidence interval [CI] 3.8% to 8.4%) and
 - **4.4% in the clean gloves group** (95% CI 2.4% to 6.4%).

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Perelman, Vsevolod S., et al. "Sterile versus Nonsterile Gloves for Repair of Uncomplicated Lacerations in the Emergency Department." *Annals of Emergency Medicine*, vol. 43, no. 3, Mar. 2004, pp. 362-370. 10.1016/j.annemergmed.2003.09.008.

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Lacerations - Preparation

- Tap Water is ok
- Low pressure is ok
- Don't use povidone-iodine solution

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Lacerations – Sedation/Analgesia

- Let there be **LET!**
 - Lidocaine – epinephrine – tetracaine
- 27- or 30-gauge needle
- Nitrous oxide

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Lacerations – Sedation/Analgesia



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Lacerations - Aftercare

- No antibiotics
 - Exception: animal bites
- Ok to shower

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Shoulder dislocation

- Cunningham technique
 - Skip the pre-procedure x-ray
 - Minimal or no dose of analgesic
 - Inform and reassure patient



<https://doi.org/10.1016/j.annemergmed.2015.07.496>

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Hematoma block

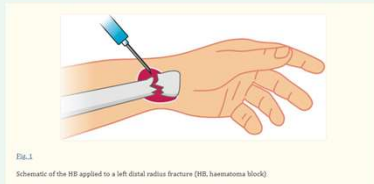


Fig. 1
Schematic of the HB applied to a left distal radius fracture (HB, hematoma block)

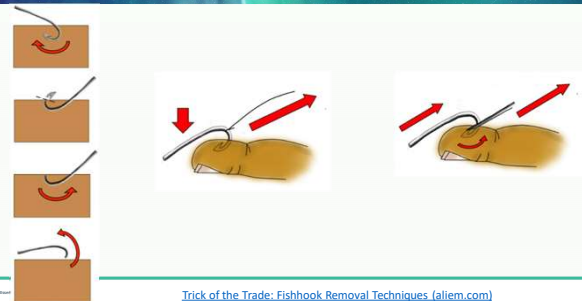
Makrettsky T, Pischel F, Puckertstein FN, Wirths S, Tschornick S. Hematoma block: a safe method for pre-surgical reduction of distal radius fractures. J Orthop Surg Res. 2020 Aug 26;25(1):351. doi: 10.1186/s13048-020-01813-y. PMID: 32845043. PMCID: PMC7488234.

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Fish hook removal



[Trick of the Trade: Fishhook Removal Techniques \(fallem.com\)](https://www.fallem.com/)

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Ear/Nose foreign body removal



Medical Glue
"Kiss" technique

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Ring removal



10 minutes
Moderate discomfort

Kates SL. A novel method of ring removal from the aging finger. Geriatr Orthop Surg Rehabil. 2010 Nov;1(2):78-9. doi: 10.1177/2151458510389464. PMID: 23569666. PMCID: PMC3597294.

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Ring removal

- Tungsten



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Epistaxis

cotton pledget soaked in epinephrine (1:100,000) + lidocaine (2%) left in place for 10 minutes. ANP performed using cotton pledgets covered with tetracycline ointment

	Anterior Nasal Packing	Tranexamic Acid	Percent Difference (95% CI)	p-value
Bleeding stop time < 10 min (N)	29	79	44 (26 to 57)	<0.001
Bleeding stop time (min), median [IQR]	15 [13-20]	10 [13-15]		<0.001
Discharge time < 2 h (N)	13	97	84 (71 to 91)	<0.001
Complications in the ED (N)	5	10	5 (-5 to 15)	0.299
Rebleeding in the first 24 h (N)	10	5	-5 (-15 to 5)	0.299
Rebleeding from procedure until 1 week (N)	21	5	-16 (-28 to -4)	0.007

15-cm piece of cotton pledget that had been soaked in the injectable form of TXA (500 mg in 5 mL) and inserted into the affected nostril

Note: All patients in study were on an anti-platelet agent

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<https://doi.org/10.1111/acem.13345>

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Thank you!

- Questions?
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