

Created with 3M science. Supported by evidence.

Not all nasal decolonization solutions are created equally.
3M™ Skin and Nasal Antiseptic is a patented 3M formulation.



Trust the science. Trust the formulation. Trust the data.

	3M™ Skin and Nasal Antiseptic	Clorox Healthcare™ Nasal Antiseptic Swabs	Nozin® Nasal Sanitizer®
Mean <i>S. aureus</i> Kill Rate	99.5% ¹	99.4% ²	82% ³
MRSA Log ₁₀ Reduction at 24 Hours ⁴	6.9 ± 0.41*	2.4 ± 0.51	N/A
Investigator Initiated Studies with SSI Outcomes	9	0	1
Peer Reviewed Studies with SSI Outcomes	3 of 9	0	0 of 1
Pediatric Use**	>2 Months	>3 years	>2 years
Simple One-Time PreOp Application**	✓	✓	No
Efficacy Data in the Nose**	✓	No	✓

1. 99.5% after 1 hour in healthy volunteers: 3M Study-05-011100

2. 99.4% after 1 hour in laboratory study: Clorox Study #9550-005

3. 82% after 3 applications in healthcare workers: Steed LL, et al. *AJIC* 2014; 42(8): 841-46.

4. ex vivo mucosal tissue model: Peterson M, et al. Presented at ID Week, October 2016.

* Statistically significant difference (p≤0.05)

** www.nozin.com and www.cloroxprofessional.com

Q&A

3M™ Skin and Nasal Antiseptic

(Povidone Iodine Solution 5% w/w [0.5% available iodine] USP)
Patient Preoperative Skin Preparation



Q – How does *S. aureus* from the nose contribute to surgical site infections (SSI)?

A – The mechanism for *S. aureus* infection resulting from nasal colonization is not clear; however, nasal carriers of *S. aureus* are up to 9 times more likely to develop SSI.^{1,2} In fact, 80% of *S. aureus* infections are caused by the patient's own (clonal) nasal flora.³⁻⁵

1. Kalra L, Camacho F, Whitener CJ, et al. Risk of methicillin-resistant Staphylococcus aureus surgical site infection in patients with nasal MRSA colonization. *Am J Infect Control.* 2013;41:1253-1257.
2. Levy PY, Ollivier M, Drancourt M, et al. Relation between nasal carriage of Staphylococcus aureus and surgical site infection in orthopedic surgery: The role of nasal contamination. A systematic literature review and meta-analysis. *Orthopaedics & Traumatology: Surgery & Research.* 2013;99(6):645-651.
3. Perl TM, Cullen JJ, Wenzel RP, et al. Intranasal mupirocin to prevent postoperative Staphylococcus aureus infections. *N Engl J Med.* 2002;346(24):1871-1877.
4. Kalmeijer MD, van Nieuwland-Bollen E, Bogaers-Hofman D, et al. Nasal carriage of Staphylococcus aureus is a major risk factor for surgical site infections in orthopedic surgery. *Infect Control Hosp Epidemiol.* 2000;21:319-323.
5. Kluytmans JAJW, Mouton JW, Ijzerman EPF, et al. Nasal carriage of Staphylococcus aureus as a major risk factor for wound infections after cardiac surgery. *J Infect Dis.* 1995;171:216-219.

Q – Won't bacteria become resistant to this antiseptic just like they can with mupirocin?

A – Mupirocin has been shown to lead to mupirocin-resistant strains of *S. aureus*.¹ No increase in resistance to 3M™ Skin and Nasal Antiseptic has been shown in antibiotic resistant strains of *S. aureus*.²

1. Jones JC, Rogers TJ, Brookmeyer P, et al. Mupirocin resistance in patients colonized with methicillin-resistant Staphylococcus aureus in a surgical intensive care unit. *Clin Infect Dis.* 2007;45:541-547
2. 3M Study 05-011322 (in vitro)

Q – Does formulation of an antiseptic nasal decolonization solution really matter?

A – Absolutely. A recent study shows 3M™ Skin and Nasal Antiseptic was persistent and superior ($p \leq 0.05$) to Clorox Healthcare™ Nasal Antiseptic and Betadine® Solution for reducing MRSA (including MRSA high-level mupirocin-resistant isolates) burden over 24 hours.¹ An additional randomized controlled trial shows significantly superior ($p \leq 0.003$) efficacy of 3M™ Skin and Nasal Antiseptic at 4 hours compared to 10% povidone-iodine.²

1. Peterson M, Finnegan P, Anderson M, et al. Efficacy of Skin and Nasal Povidone-Iodine Preparation and Iodine-containing Formulations in Treating MRSA Colonization of Ex Vivo Mucosal Tissue Model. Presented at the ID Week Annual Conference, New Orleans, LA, October 2016.
2. Rezapoor M, Nicholson T, Patel R, Mostafavi R, Chen AF, Parvizi J. Do iodine-based solutions differ in their effectiveness for decolonizing intranasal Staphylococcus aureus? Presented at the MSIS Annual Meeting, Cleveland, OH, August 2015.

Q – Are other facilities adopting this into their preoperative protocol?

A – Yes. Facilities all over the United States are using 3M™ Skin and Nasal Antiseptic as part of a comprehensive preoperative protocol. This product is acceptable for use in children ages 2 months and older and is used in multiple children's hospitals.¹

1. Internal 3M Data

3M

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