



3M™ DuraPrep™ Surgical Solution

Patient Preoperative Skin Preparation



The Power of Povacrylex

- P** Persistence
- O** One-step paint application
- W** Water insoluble film immobilizes bacteria
- E** Enhanced drape adhesion
- R** Resistant to blood/saline wash-off

It is a common misconception that all surgical patient preps have approximately the same properties. Not so. Iodine povacrylex, the active ingredient in 3M™ DuraPrep™ Surgical Solution (Iodine Povacrylex [0.7% available iodine] and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation, has special attributes not found in other preps. Nothing compares to the Power of Povacrylex.

P
Persistence

First and foremost, a surgical patient prep should be effective in killing microbes. And no surgical prepping solution has as much clinical documentation to support its efficacy story as DuraPrep solution.

Studies show that DuraPrep solution remains bactericidal at least 48 hours* against resident bacteria after blood and saline challenge, and at least 12 hours against transient bacteria.

*ASTM E1173

O
One-step
paint
application

DuraPrep solution provides antimicrobial kill in a single, painted coat. Nothing is faster. Nothing is easier. Which may explain why it's been used in more than 25 million surgical procedures.

DuraPrep solution keeps it simple. There is one set of application instructions and one dry time wherever you work.

Povacrylex. The Power To Prep With Confidence.



W
Water
insoluble film
immobilizes
bacteria

Skin antiseptics disinfect, but do not sterilize skin. Remaining flora can migrate to the wound through irrigation, instruments, or surgeon's gloves.

DuraPrep solution dries to a water-insoluble film that immobilizes bacteria not killed, reducing the risk of microbial migration to the surgical incision/wound when an incise drape isn't used.

E
Enhanced
drape
adhesion

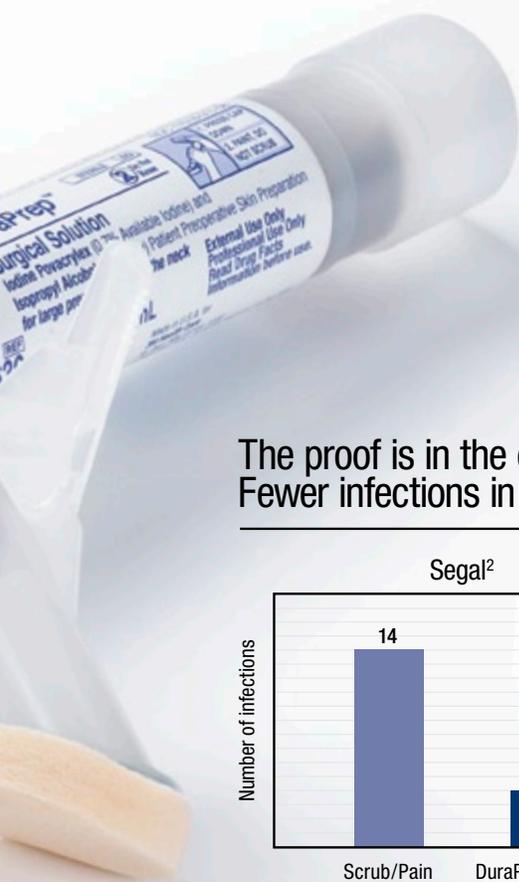
Incise drapes are used to create a sterile surface in procedures where the consequence of infection can have serious morbidity or mortality. But when a drape lifts at the wound edge, the exposed skin allows for the potential of bacteria being transferred into the wound. Therefore, it is important to consider the effect of different preps on drape adhesion.

In clinical studies, the polymer-based film of povacrylex in DuraPrep solution showed significantly greater drape adhesion than Chloraprep® antiseptic skin prep, as well as other water soluble preps.

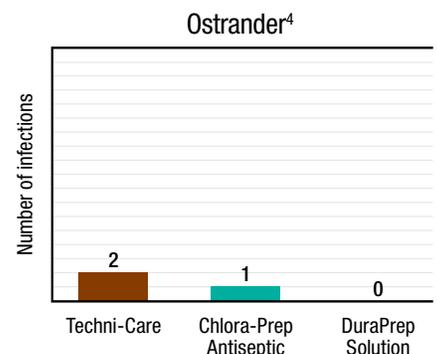
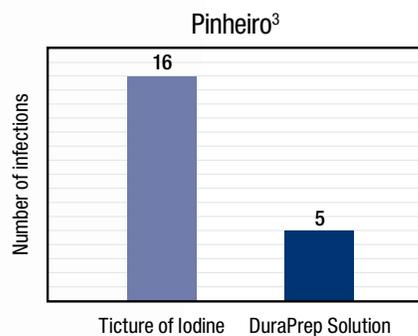
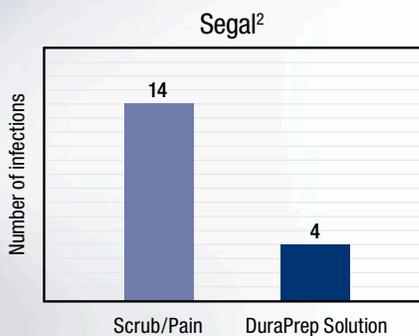
R
Resistant to
blood/saline
wash-off

The unique formulation of povacrylex holds its ground even when challenged by blood/saline. The resistance to removal throughout the procedure optimizes the persistence and bactericidal power of iodine.

The percentage of patients with skin prep visible on the leg site at the end of surgery was significantly higher ($P < .0001$) in the E (DuraPrep solution) group (99%) than in the C (PVP-I scrub and paint) group (6.3%).¹



**The proof is in the outcomes.
Fewer infections in three clinical studies.**



Ordering Information

3M™ DuraPrep™ Surgical Solution (Iodine Povacrylex [0.7% available iodine] and Isopropyl Alcohol, 74% w/w) Patient Preoperative Skin Preparation is indicated for topical use as a persistent, film-forming preoperative skin preparation with fast, broad-spectrum antimicrobial activity.

Cat. No.	Description	Coverage	Size	Items/Box	Boxes/Case
8630	DuraPrep surgical solution	Applicator covers 450 sq. in. (38cm. x 76cm.); ideal for large procedures – Thoracic and CV, spine, total hip and knee, C-section, major abdominal.	26 mL	20	1
8635	DuraPrep surgical solution	Applicator covers 80 sq. in. (20cm x 25cm.); ideal for mid-size procedures – biopsies, foot and hand, angiography, head and neck procedures.	6 mL	50	1

Warnings

For external use only. Flammable, keep away from fire or flame. To reduce the risk of fire:

- do not use 26 mL applicator for head and neck surgery
- do not use the 26 mL applicator on an area smaller than 8 in. x 10 in. Use a small applicator instead.
- solution contains alcohol and gives off flammable vapors
- do not drape or use ignition source (e.g., cautery, laser) until solution is completely dry (minimum of 3 minutes on hairless skin)
- avoid getting solution into hairy areas. Solution may take much longer to dry or may not dry completely.
- do not allow solution to pool
- remove solution-stained material from prep area

Do not use

- on patients with known allergies to iodine or any other ingredients in this product
- on open wounds, on mucous membranes, or as a general skin cleanser
- on infants less than 2 months old due to risk of excessive skin irritation and transient hypothyroidism

When using this product

- keep out of eyes, ears, and mouth. May cause serious injury if permitted to enter and remain. If contact occurs, flush with cold water right away and contact a doctor.
- to avoid skin injury, care should be taken when removing drapes, tapes, etc. applied over film.
- use with caution in women who are breast feeding due to the potential for transient hypothyroidism in the nursing newborn

Stop use and ask a doctor if irritation, sensitization or other allergic reactions occur. These may be signs of a serious condition. On rare occasions, use of this product has been associated with skin blistering.

References

- ¹ Roberts AJ, Wilcox K, Devineni R, Harris RB, Osevala MA: Skin Preparations in CABG Surgery: A Prospective Randomized Trial. *Complications in Surgery*, 1995; 14(6): 724, 741–744, 747.
- ² Segal, CG and Anderson, JJ: Preoperative skin preparation of cardiac patients. *AORN Journal* 2002; 76(5): 821-828.
- ³ Pinheiro, SMC, Couto, BRG, Pimenta, JPM, Moreira, LS, Nogueira, MGS, Moreira, MNR, and Naascimento, ES: Effects of iodophor skin preparation in reducing surgical infection. The Society for Healthcare Epidemiology of America (SHEA), 14th Annual Meeting 2004, Abstract #329, page 122.
- ⁴ Ostrander, RV, Botte, MJ, Brage, ME: Efficacy of Surgical Preparation Solutions in Foot and Ankle Surgery. *Journal of Bone and Joint Surgery* 2005; 980-984.

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