Surgical Preps-Skin Antisepsis

While the process of surgical site preparation has remained virtually unchanged over the years, the variety and delivery of solutions has not. Today's solutions range from aqueous/non-aqueous isdophor and isopropyl alcohol to iodine, chlorhexidine and chloroxylenol and gel compounds, all of which come in multi-use bottles, or pre-measured single-use applications.



In addition to meeting the primary goal of surgical skin preparation — to remove dirt, oil and reduce microbial count as quickly as possible with as little irritation as possible — the selection of scrub solutions should also be based on:

- Compatibility with the items it comes in contact with, including gloves and draping materials .
- Flammability •
- Whether or not it is inactivated by organic material
- How easily it can be removed from the skin surface
- The area being prepped, procedure being performed and the patient's condition

Use of single use preps-key benefits are:

- They are faster to apply, less messy, cleanse more effectively, dry faster and enhance drape adhesion, thus preventing the sterile surface from being compromised while speeding prep time.
- They reduce cross-contamination.
- Pooling between patient and equipment is reduced since application is controlled, thereby reducing the risk of skin irritation and providing for a "guicker" post-procedure clean-up.

Surgical Prep Solutions:

- Betadine scrub
- Betadine solution
- Betadine swabs
- ✤ 5% Betadine Opth solution
- Chlorhexidine-Chloraprep
- 2% lodine

Considerations:

Allergies, Age of Patient, Size/Location, Time, Shaving, Skin Assessment Surgical site must be marked Prepping from the incision site out vs. back and forth method*



HAIR CLIPPED HAIR SHAVED HAIR SAVED YES NO

- Acetone Alcohol
- Chloraprep
 - Duraprep

Special Considerations for Surgical Prep Solutions

Solution	Use on eye or ear	Genital Area	Meninges	Use on mucous membranes	Flammable
Alcohol / Acetone	No, can cause corneal damage. Can cause deafness if in contact with inner ear	No	No	No	Yes
Povidone-iodine- Betadine Opthalmic (5%)	Yes				
Povidone-iodine- Betadine solution (10%)	Yes, moderate ocular irritant	Yes		Yes	No
Povidone-iodine- Betadine scrub (7 ½ %)	No	Yes		Yes	No
Chlorhexidine-Chloraprep	No, can cause corneal damage. Can cause deafness if in contact with inner ear	Yes	No	No	Yes
Chlorhexidine gluconate- Exidine	No, can cause corneal damage. Can cause deafness if in contact with inner ear	No	No	Use with caution	No
Iodine Povacrylex-Duraprep	No, can cause corneal damage. Can cause deafness if in contact with inner ear	Yes		No	Yes

Both Chloraprep & Duraprep should not to be used on: children less than 2 months of age, for open wounds, in emergency situations where there is not time for the prep to dry.