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WHAT IS MARATHON?

MARATHON Cyanoacrylate Skin Protectant is a non-cytotoxic, cyanoacrylate-based monomer that forms a remarkably strong protective layer over skin. As the cyanoacrylate polymerizes, it bonds to the skin surface. It resists external moisture, yet it allows the skin to breathe.

Marathon forms a remarkably strong film that:
- Minimizes friction which helps reduce the risk of developing skin tears
- Protects skin from prolonged exposure to moisture, which weakens and damages the skin surface making it more susceptible to breakdown
- Protects skin from the onslaught of corrosive body fluids such as urine, feces, digestive fluids and wound drainage

LONG LASTING + NO-SPILL + BREATHABLE SKIN PROTECTION

Healing and Skin Protection for Indigent Residents with a Novel Product (Cyanoacrylate) at one County Long Term Care Facility – Lit 808

In long term care, skin damage may result from incontinence, friction, pressure, trauma, and skin stripping which leads to pain and increased costs. The efficacy of the cyanoacrylate liquid skin protectant was tested on several residents with incontinence associated dermatitis (SAD) on their buttocks as well as an obese resident with denuded skin on her thigh. The cyanoacrylate did not cause stinging, and it stood up to bodily fluids. The cyanoacrylate provided the residents with strong protection from further skin damage.

Evaluation of a Cyanoacrylate Protectant to Manage Skin Tears in the Acute Care Population – Lit 018R

In acute care, skin tear incidence rate is 14-24%. Skin tears result from shear, friction, or blunt trauma. The study examined the efficacy of cyanoacrylate dressings on 23 patients in a Medical Surgical unit. The skin tear incidence was low. The cyanoacrylate required a single application for most of the patients, which significantly decreased costs and usage time. Nurses indicated high satisfaction with the cyanoacrylate.
HOW DOES MARATHON WORK?

MARATHON Cyanoacrylate Skin Protectant consists of individual molecules (cyanoacrylate-based monomers) that polymerize when they come in contact with moisture on the skin surface. This reaction continues until the monomer molecules have joined either to each other (cohesion) or to molecules of substances present in skin (adhesion).

This type of bonding ensures that the product remains in place until the epidermal cells naturally slough away, maintaining skin integrity. Since Marathon is cyanoacrylate-based, product remains on the skin and does not evaporate upon application.

WHEN SHOULD MARATHON BE USED?

MARATHON Cyanoacrylate Skin Protectant is intended to protect intact or damaged skin from friction, moisture and shear.

Indications for Use

Helps protect:

» Skin exposed to irritation and moisture such as urine, feces, digestive juices, perspiration and wound drainage
» Areas that are exposed to friction and shear
» Skin from irritation caused by adhesive products

Contraindications:

» Do not apply directly to deep, open or bleeding wounds
» Do not apply to chronic wounds
» Do not apply to second or third degree burns
» Do not apply to infected areas

Clinical applications include:

Skin Protection Under Medical Devices

» Ostomy care, including G-Tubes and tracheostomy
» Tapes and adhesive dressings
» Oxygen tubing

Skin Protection for Fragile and Compromised Areas

» Perineal and perianal area
» Periwound area
» Skin folds (Intertrigo)
» Heels
COST EFFECTIVENESS STUDIES

Cost Comparison of Treatments Used on Recalcitrant Peristomal Skin Conditions
A 70-year-old patient with an anterior posterior resection and end ileostomy experienced multiple peristomal ulcerations resistant to current best practice protocols. A comparison of peristomal ulcer regimens was calculated for cost and effectiveness. After limited success despite multiple treatment regimens, the use of Marathon Cyanoacrylate Skin Protectant was the only regimen able to bring the PUSH scale score down to zero.

<table>
<thead>
<tr>
<th>Dressing</th>
<th>Cost/Dressing</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Sodium Alginate</td>
<td>$2.34</td>
<td>11-9</td>
</tr>
<tr>
<td>Alginate + CMC + Ionic Silver</td>
<td>$3.78</td>
<td>10-9</td>
</tr>
<tr>
<td>Thin Hydrocolloid</td>
<td>$0.86</td>
<td>11</td>
</tr>
<tr>
<td>Silicone Based Non-Adherent Foam</td>
<td>$1.92</td>
<td>11</td>
</tr>
<tr>
<td>Transparent Film</td>
<td>$1.00</td>
<td>11</td>
</tr>
<tr>
<td>Powdered Polymer Dressings</td>
<td>$6.43</td>
<td>11-7</td>
</tr>
<tr>
<td>Collagen Powder/Gel</td>
<td>$3.03</td>
<td>11-7</td>
</tr>
<tr>
<td>Collagen Sheet</td>
<td>$6.50</td>
<td>11-9</td>
</tr>
<tr>
<td>Silicone Non-Adherent Contact Layer</td>
<td>$4.51</td>
<td>11-7</td>
</tr>
<tr>
<td>Polyvinyl Alcohol Sponge (PVA) + Methylene Blue + Gentian Violet</td>
<td>$8.52</td>
<td>11-9</td>
</tr>
<tr>
<td>Cyanoacrylate Monomer</td>
<td>$7.23</td>
<td>9-0</td>
</tr>
</tbody>
</table>

‘Costs calculated for supplies from this patients’ DME supplier for a single dressing to treat ulcers when used either alone or in combination with other dressings listed.

“PUSH TOOL 3.0 from the National Pressure Ulcer Advisory Panel. Measures wound healing by surface area, exudate and type of wound tissue. Scores range from 17 to 0 with 0 being closed/resurfaced.

Reid J, Tucker J, Fore J. Tri-State Memorial Hospital Wound Healing Center (Clarkston, WA). Cost comparison of treatments used on recalcitrant peristomal skin complications.

Health Economic Benefits of Cyanoacrylate Skin Protectants
Twelve patients with superficial skin damage were treated with Marathon. Cost analysis was conducted comparing the cost of care seven days before and seven days after Marathon was used.

RESULTS:
The average cost of care in the management of pressure ulcers was $18.04 using foam dressings in comparison with $8.18 using cyanoacrylate barrier. The use of a cyanoacrylate barrier achieved cost savings between 9% and 77% when the comparison involved two or more foam dressings. The cost savings associated with the use of a cyanoacrylate barrier to manage MASD could be as high as 95% in patients with frequent fecal and urinary incontinence. An analysis of the average (excluding the outlier) shows that the traditional treatment, per patient, per week, averaged $46.20, compared to the average cost of $12.26 using Marathon LSP.
IN VITRO STUDIES

Abrasion Resistance
An independent test involving 12 people over age 60 compared how bare skin, skin with an application of Marathon Cyanoacrylate Skin Protectant, and skin with an application of 3M Cavilon® was protected from the effects of abrasion (friction). Transepidermal Water Loss (TEWL) was measured at the application sites as a gauge of skin injury. High TEWL post abrasion was used as a measure of the extent of skin damage.

RESULTS:
Areas where MARATHON was applied showed better protection of skin from TEWL when compared to Cavilon or no treatment at all.

Corrosive Fluids and Wash-off Resistance Test
An independent test involving 12 people over age 60 compared how bare skin, skin with an application of MARATHON, and skin with an application of Cavilon resisted exposure to a corrosive fluid (synthetic urine).

RESULTS:
Areas where MARATHON was applied showed better resistance after each of the five urine and wash-off cycles compared to the areas where Cavilon or no product at all were applied.

Independently lab testing data on file.

Physical Barrier Test
In vitro studies have shown that Marathon skin protectant acts as a physical barrier to contaminants for up to 72 hours.

Data on file.
Evaluation of a Cyanoacrylate Protectant to Manage Peristomal Skin Irritation under Ostomy Skin Barrier Wafers – Lit 236R

Approximately 10-70% of ostomy patients experience peristomal skin problems due to mechanical, chemical, and microbial causes. Major causes of peristomal skin irritation include urine leakage, undigested food matter, and feces. The purpose of the study was to evaluate the efficacy of a cyanoacrylate liquid skin protectant in managing peristomal skin irritation under ostomy wafers in acute care and outpatient settings. The peristomal skin assessment discomfort levels decreased from 9.5-10 to 3.5 at the first wafer change and were absent by the second wafer change. There was an increase in time between wafer changes, and epidermal resurfacing occurred within 10.2 days in outpatients and 7 days in acute care patients. Patients reported high satisfaction because of the reduced discomfort and immediate wafer adherence at all wafer changes. The cyanoacrylate was found to be a viable option to manage peristomal skin irritations under ostomy wafers in acute and long-term care settings.

The use of a Cyanoacrylate based skin barrier in the protection of the skin around a tracheostomy – Lit 1011R

A tracheostomy is frequently associated with fluid leakage onto intact skin around the insertion point, which tends to corrode skin. The efficacy of the cyanoacrylate was assessed on 11 patients with evidence of skin damage around the tracheostomy puncture wound. The days to discontinuing the cyanoacrylate averaged 12.5 days, with an outlier of 53 days. Without the outlier, cyanoacrylate discontinuation averaged 8.5 days. Skin improvement was observed in all 11 patients, and the liquid skin protectant did not cause pain or stinging. The nursing care time appeared to decrease significantly, and a health economic study was proposed.

Milne CT, Saucier D, Trevellini C, Smith J. Evaluation of a cyanoacrylate protectant to manage peristomal skin irritation under ostomy skin barrier wafers. Presented at: Clinical Symposium on Advanced Skin and Wound Care; September 2010; Orlando, FL.

Ondrejko M. The use of a cyanoacrylate based skin barrier in the protection of the skin around a tracheostomy. Presented at: Symposium on Advanced Wound Care (SAWC); May 2013; Denver, CO.

TESTIMONIALS

“This product has worked miracles on our patients when NOTHING else in-house has worked. Every once in a blue moon you come across something that works the way it is advertised. Please test this product. You will not be disappointed.”

- Donald Johnston PhD, RN – MHS, RRT
THE BREAKTHROUGH CYANOACRYLATE TECHNOLOGY EVERYONE’S TALKING ABOUT

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MSC093001CE Marathon Cyanoacrylate Skin Protectant UK 5 ea/bx
MSC093INTL Marathon Cyanoacrylate Skin Protectant Multi Language 5 ea/bx

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