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Skin and Wound Product Information Sheet

Provincial Health Services Authority Province-wide solutions. Better health.

Vancouver CoastalHealth

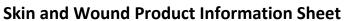
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	Dakin's Solution							
Classification Antiseptic Wound Cleanser/Debrider								
Key Points	 Compounding of Dakin's Solution within the home should only be done when Pharmacy or commercially prepared Dakin's Solution is not available. Dakin's Solution is a mixture of non-concentrated sodium hypochlorite (e.g., unscented bleach) and sterile water. May be used for wounds with/without undermining, sinus tracts/tunnels. Has a broad-spectrum bacterial action. Baking Soda is added to the solution to modify the pH. 							
Indications	• Under the direction of a Physician/NP/NSWOC/Wound Clinician for a wound which has high percentage of necrotic tissue/slough with or without signs and symptoms (S&S) of local/systemic wound infection or for a wound with S&S of biofilm.							
Precautions	 Sensitivity to chlorine product (e.g., redness, swelling, skin irritation). Harmful if swallowed. 							
Contraindications Compounding Concentrations	 Do not use for clients with known sensitivity or allergy to chlorine. Do not use for wounds with a granulating wound bed. Do not combine with other cleansers or solutions (e.g., Acetic Acid, iodine). See page 2 for recipe. If commercially-prepared sterile water not available then see Appendix A of Wound Cleansing: 							
Compounding Dakin	Procedure for how to make sterile water in	Key Points						
 Sterilize a large, clean bottle which has a screw-top cap: Remove the cap; place the bottle and cap in a pot of water, ensure that the bottle is completely covered. Bring the water to the boil and boil for 15 minutes. Carefully remove the bottle and cap from the hot water and allow to cool before handling. Review the client-specific order for the strength to be compounded and refer to the table on page 2 for the recipe. For safe handling of the bleach, pour a small amount of bleach into a glass/metal bowl and then measure out the required mLs. As per the order and recipe, add to the sterilized, empty bottle the correct amounts of: Bleach Sterile Water (commercially prepared or home prepared) Baking Soda Screw on the cap and shake gently to mix. Date and label contents. Store away from direct sunlight. 		Use open bottles of commercially prepared or prepared-at-home sterile water within 24 hours. An open bottle of Dakin's Solution may be kept for 48 hours, then discard. If a large amount Dakin's Solution is made ahead of time, <u>unopened</u> bottles may be kept for 30 days from date of preparation.						
Cleanse the wound and peri-wound skin with Normal Saline using irrigation tip catheter/syringe and/or 2x2 solution-soaked gauze(s). Remove as much loosened slough/necrotic tissue as possible. Pat the peri-wound skin dry. Apply a skin protectant (barrier film, dimethicone or zinc barrier). Soak plain ribbon packing or plain gauze(s) with Dakin's Solution, wring out excess solution. Gently fill/pack any undermining/sinus/ tunnel and the wound cavity. Apply absorbent cover dressing to maintain a moisture balanced wound environment.								



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Frequency of Application					
Change Dakin's Solution gauze(s) at least daily (as per order) until	When the bulk of the necrotic tissue has been				
the percentage of necrotic tissue has decreased such that other	removed then discontinue the use of the Dakin's				
cleansing/debriding methods could be used.	Solution to avoid damaging newly granulating tissue.				
Expected Outcome					
Wound will be debrided of necrotic tissue/biofilm within 7 days.					
For further information, please contact Wound Clinician					

Dakin's Solution									
Compounding Concentrations									
Solution	Ingredients	*0.025%	0.06%	0.125%	0.25%	0.5%			
Volume		One/Twentieth	One/Eighth	Quarter	Half	Full			
		Strength	Strength	Strength	Strength	Strength			
*0.025% is considered the safest strength to use on tissue									
125 mL	*Bleach 5.25%	0.625 mL	1.5 mL	3 mL	6 mL	12 mL			
		(1/8 tsp)	(¼ tsp)	(½ tsp)	(1 tsp + ¼ tsp)	(2 tsp +½ tsp)			
	Sterile Water	124.5 mL	123.5 mL	122 mL	119 mL	113 mL			
	Baking Soda	pinch	pinch	pinch	pinch	pinch			
	Total Amount	125 mL	125 mL	125 mL	125 mL	125 mL			
250 mL	Bleach 5.25%	1.5 mL	3 mL	6 mL	12 mL	24 mL			
	Diedcii 5.25%								
		(¼ tsp)	(½ tsp + 1/8 tsp)	(1 tsp + ¼ tsp)	(2 tsp +½ tsp)	(1 tbsp + 2 tsp)			
	Sterile Water	248.5 mL	247 mL	244 mL	238 mL	236 mL			
	Baking Soda	1/8 tsp	1/8 tsp	1/8 tsp	1/8 tsp	1/8 tsp			
	Total Amount	250 mL	250 mL	250 mL	250 mL	250 mL			
	Bleach 5.25%	3 mL	6 mL	12 mL	24 mL	48 mL			
500 mL		(½ tsp + 1/8 tsp)	(1 tsp + ¼ tsp)	(2 tsp +½ tsp)	(1 tbsp + 2 tsp)	(3 tbsp + ½ tsp)			
	Sterile Water	497 mL	494 mL	488 mL	474 mL	452 mL			
	Baking Soda	¼ tsp	¼ tsp	¼ tsp	¼ tsp	¼ tsp			
	Total Amount	500 mL	500 mL	500 mL	500 mL	500 mL			
1000 mL	Bleach 5.25%	6 mL	12 mL	24 mL	48 mL	95 mL			
	2.000.0020,0	(1 tsp + ¼ tsp)	(2 tsp + ½ tsp)	(1 tbsp + 2 tsp)	(3 tbsp + ½ tsp)	(6 tbsp + 1 tsp)			
	Sterile Water	994 mL	988 mL	976 mL	952 mL	905 mL			
	Baking Soda	½ tsp	½ tsp	½ tsp	½ tsp	½ tsp			
	Total Amount	1000 mL	1000 mL	1000 mL	1000 mL	1000 mL			

*Bleach 5.25% must be un-scented

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Tsp/tsp = Teaspoon

Tbsp/tbsp =Tablespoon

References

Ohio State University Medical Center. (2002). How to make Dakin's solution.

Nationwide Children's Hospital. (2018). How to make Dakin's solution.

https://www.nationwidechildrens.org/family-resources-education/health-wellness-and-safety-resources/helping-hands/dakins-solution