Children's Wisconsin

Co-Management Guidelines

To support collaborative care, we have developed guidelines for our community providers to utilize when referring to, and managing patients with, the pediatric specialists at Children's Wisconsin. These guidelines provide protocols for jointly managing patient cases between community providers and our pediatric specialists.

Treatment of Warts

The purpose of this guideline is to determine initial treatment of warts and when the patient should be referred to dermatology.

Diagnosis/symptom Verrucae Vulgaris	Referring provider's initial evaluation and management:	When to initiate referral/ consider refer to Dermatology Clinic:	What can referring provider send to Dermatology Clinic?	Specialist's workup will likely include:
Signs and symptoms Verrucae vulgaris (common warts) and verrucae plantaris (plantar warts): rough, skin-colored papules	Diagnosis and Treatment Evaluate type, number and location of warts. Determine patient/family desire for treatment and patient cooperation. Benign neglect is always an option, especially since response to treatment is variable. Salicylic Acid Soaking and file wart nightly and then apply 40% salicylic acid under occlusion. Wart Stick is 40% salicylic acid available OTC. Mediplast is a plaster that can be cut to size and applied to lesions. This might have to be covered with duct tape or medical tape to keep in place.	Patients and families should be motivated to pursue treatments that can be painful and generally require repeated visits. • Failed treatment after 3 months with topical therapy • Complications or lack of response from in-office treatment • Lack of patient cooperation Lesions in difficult sites such as face, genitals, extensive nailfold involvement.	 Internal Providers Ambulatory Referral to Dermatology External provider using Epic Please complete the external referral order In order to help triage our patients and maximize the visit, the following information would be helpful include with your referral order: 	 History and physical exam Dermatoscopic exam After referral to Dermatology Clinic, multiple follow appointments may be needed. Families may want to determine their deductible status and whether Children's Wisconsin is in-network or out-of-network.



For questions concerning this work,

Contact mdconnect@childrenswi.org

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Yvonne Chiu, MD

- Do not use on the face or genitals.
- Irritation is desired endpoint. If irritation is severe or ulcers develop, stop for a few days, allow the skin to heal, and then re-start at a decreased frequency.

5-fluorouracil

- Soaking and file wart nightly and then apply 5-FU under occlusion.
- 5-fluorouracil 5% cream is covered by most insurances
- Compounded 5-fluorouracil with 17% salicylic acid is available at Skywalk Pharmacy (not covered by Medicaid).
- Do not use on the face or genitals.
- Irritation is desired endpoint. If irritation is severe or ulcers develop, stop for a few days, allow the skin to heal, and then re-start at a decreased frequency.

Liquid nitrogen

- Liquid nitrogen applied with two 10-15 second freeze thaw cycles on thin skin areas. 20-25 second freeze thaw cycles for palms/soles.
- Repeat treatment every 4 weeks.

- In order to help triage our patients maximize the visit time, please **fax** the above information to **(414-607-5288)**
- It would also be helpful to include relevant clinic notes if your clinic is not on Epic CareEverywhere



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	 Pare any hyperkeratotic skin prior to freezing. Pain, erythema, and blistering are adverse effects. General skin care for hand warts: Avoid biting/picking the skin around fingernails. If the hands are dry use a fragrance-free hand soap and fragrance-free moisturizing cream after each hand washing. Prescribe a low-mid potency steroid if dermatitis is present. 			
Verruca plana (flat warts)	Diagnosis and Treatment Evaluate type, number and location of warts. Determine patient/family desire for treatment and patient cooperation. Benign neglect is always an option, especially since response to treatment is variable. Tretinoin Tretinoin 0.025 or 0.5% cream. Can start 3 times a week and increase to nightly after 2 weeks if tolerated. Slight erythema is desirable. If irritation is severe, stop for a few days, allow the skin to heal, and then re-start at a decreased frequency. Imiquimod Imiquimod Imiquimod 5% cream. Can start 3 times a week and increase to	Patients and families should be motivated to pursue treatments that can be painful and generally require repeated visits. • Failed treatment after 3 months with topical therapy • Complications or lack of response from in-office treatment • Lack of patient cooperation Lesions in difficult sites such as face, genitals, extensive nailfold involvement.	 Internal providers place order for eConsult Dermatology (preferred) Place ambulatory referral to Dermatology External providers using Epic Please complete the external referral order In order to help triage our patients and maximize the visit, the following information would be helpful include with your referral order:	History and physical exam Dermatoscopic exam After referral to Dermatology Clinic, multiple follow appointments may be needed. Families may want to determine their deductible status and whether Children's Wisconsin is innetwork or out-of-network.



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	nightly after 2 weeks if tolerated. Slight erythema is desirable. If irritation is severe, stop for a few days, allow the skin to heal, and then re-start at a decreased frequency. Side effects can include robust inflammatory response, psoriasiform rash, or oral ulcers (if used on the face). Do not use on the face. Liquid Nitrogen Use liquid nitrogen in a cup with cotton tipped applicators. Apply for two 5-10 second freeze thaw cycles.		It would also be helpful to include relevant clinic notes if your clinic is not on Epic CareEverywhere	
Condyloma (genital warts)	Diagnosis and Treatment Determine need to report to Child Protective Services. Treat with imiquimod cream applied three times per week. Use caution to apply to the warts only and not the normal skin. Can apply Vaseline petroleum jelly to the normal skin to act as a barrier.	Patients and families should be motivated to pursue treatments that can be painful and generally require repeated visits. • Failed treatment after 3 months with topical therapy • Complications from in-office treatment • Lack of patient cooperation Lesions in difficult sites such as face, genitals, extensive nailfold involvement.	 Internal providers place order for eConsult Dermatology (preferred) Place ambulatory referral to Dermatology External providers using Epic Please complete the external referral order In order to help triage our patients and maximize the visit, the following information would be helpful include with your referral order:	 History and physical exam Dermatoscopic exam After referral to Dermatology Clinic, multiple follow appointments may be needed. Families may want to determine their deductible status and whether Children's Wisconsin is innetwork or out-of-network.



 Not using Epic external referral order: In order to help triage our patients maximize the visit time, please fax the above information to (414-607-5288) It would also be helpful to include relevant clinic notes if your clinic is not on Epic CareEverywhere 	
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Medical Disclaimer

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