

Dispensing Pearl

Castellani's paint

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Castellani's paint was perfected in 1905 by Aldo Castellani (1878-1971), an Italian physician and a specialist in tropical diseases. Castellani's paint is an excellent preparation for tinea cruris and moniliasis of intertriginous areas. ¹ It is effective in pustular dermatoses of the hands and feet, ² and has also been recommended for pruritus ani and pruritus vulvae. ³ Colorless Castellani's paint may be used to reduce secondary bacterial contamination in onycholysis and in chronic paronychia. ⁴

CASTELLANI'S PAINT5

Basic fuchsin	0.3
Ethyl alcohol 95%	10.0
Boric acid	1.0
Phenol liquef.	4.0
Acetone	5.0
Resorcinol	10.0
Water to	100.0

Sig: Apply to affected areas at night with a cottontipped applicator daily at night. Then dry and dust with talc.

A colorless variety exists that is cosmetically more acceptable and less irritating, but purportedly less effective:

Alcohol 90%	8.5%
Boric acid	0.8%
Phenol	4.0%
Acetone	4.0%
Resorcinol	8.0%
Water to	100.0%

ROLE OF THE INGREDIENTS

Magenta or basic fuchsin:⁶ Basic fuchsin is a dark purple liquid that appears red on the skin and can stain. It has local anesthetic, bactericidal (Gram positive) and fungicidal properties. It has also been reported to stimulate granulation tissue and epithelialization.

Ethyl alcohol: This has been used in Castellani's paint for its cooling properties.

Boric acid: Boric acid presumably has been included for antiseptic properties. It is rarely used topically nowadays because it is toxic when absorbed.

Phenol: Phenol is basically a caustic agent, which at lower concentrations inhibits nerve endings, acting as an anti-pruritic. However, high concentrations over large areas on the body can be toxic, particularly for the kidneys.

Acetone: Acetone is a solvent with cooling and cleansing properties.

Resorcinol: Resorcinol is an important constituent of Castellani's paint. It has anti-pruritic, keratolytic, antimycotic and anti-eczematous properties.

PRECAUTIONS

Initial irritation or stinging may occur, and can be circumvented by using half-strength Castellani's paint for the first few times. Castellani's paint is preferably





avoided in infants and children because of the potential for percutaneous absorption of phenol.⁷ Rarely, allergic eczematous contact dermatitis to resorcinol in Castellani's paint used to mark radiotherapy ports has been reported.⁸ Patients need to be warned regarding the staining of the clothes with Castellani's paint.

CASTELLANI'S PAINT IN CONTEMPORARY PRACTICE

Castellani's paint dramatically improves inflamed tinea cruris and intertrigo of the groins, particularly in patients with a history of long-term topical steroid application. Applying Castellani's paint is an effective way to dry oozing lesions, particularly in the groins and the toe webs.⁹

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