

Ivermectin 1% Cream

Therapeutic Cheat Sheet

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TRADE NAMES

- › Soolantra

FDA APPROVED FOR

- › Inflammatory lesions of rosacea

DOSING

- › One application to the affected area daily.

MECHANISM

Exerts an anti-inflammatory effect by downregulating expression of $TNF\alpha$ and $IL-1\beta$ while upregulating expression of $IL-10$.

Exerts anti-parasitic effects by binding glutamate-gated ion channels, allowing for an influx of chloride ions.

OFF-LABEL USES

Demodicosis, ocular rosacea

POTENTIAL SIDE EFFECTS

While side effects are rare, burning, skin irritation and dermatitis have been reported.

RESULTS

- › In two pivotal phase III randomized control trials, ivermectin 1% cream demonstrated efficacy over vehicle with 38.4% and 40.1% of patients in the treatment groups reaching an endpoint of “clear” or “almost clear” vs 11.6% and 18.8% in patients treated with vehicle alone after 12 weeks. 76.0% and 75.0% of patients in the treatment arms showed a decrease in inflammatory lesion count from baseline vs 50.0% for both vehicle groups.
- › In two 40-week extension studies, ivermectin 1% cream showed continued efficacy and less adverse events when compared to azelaic acid 15% gel (1.9% vs 6.7% in study 1 and 2.1% vs 5.8% in study 2).

CONSIDERATIONS

- › It has been posited that nightly application may be beneficial, since *Demodex folliculorum* migrate nocturnally.
- › There have been reports of successful treatment of ocular rosacea with daily application of ivermectin 1% cream to the closed eyelids.