

# MECHANISM OF ACTION OF SUPATRET 0.04% GEL - OGM

## MECHANISM OF ACTION OF SUPATRET 0.04% GEL 20GM:

Tretinoin is a trans-retinoic acid **shape** of vitamin A. It stimulates mitosis and turnover of follicular epithelial cells **and reduce** their cohesiveness. This **helps** extrusion of **present** comedones **and forestalls** formation of **new** comedone. It also **exhibits** thinning **effect on the** stratum corneum. In acute promyelocytic leukaemia, it induces **cell** differentiation **and decreases** proliferations. Absorption: Well absorbed from the GIT, **top** plasma concentrations after 1-2 hrs (oral).

Oral bioavailability: 50%. Distribution: Highly **bound** to plasma proteins. Metabolism: Hepatic **by way** of cytochrome P450 isoenzyme; **transformed** to isotretinoin, 4-oxo-trans-retinoic acid and 4-oxo-cis-retinoic acid. Excretion: Urine and faeces; 0.5-2 hrs (terminal **removal** half-life).

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SPECIAL PRECAUTIONS FOR SUPATRET 0.04% GEL 20GM:

Topical: **keep away from** concomitant topical applications, esp keratolytic agents. Avoid **publicity** to sunlight, UV **mild** and **climate** extremes (e.G. Cold). Keep **far from** eyes, mouth, angles of nose, mucous membranes or open wounds. In case of **severe neighborhood** erythema, oedema, blistering or crusting, use **less regularly** or discontinue.

Avoid medicated or drying soaps, abrasive soaps and cleansers, **common** washing and **cruel** scrubbing. Avoid use of topical **preparations** with **excessive** concentrations of alcohol, menthol, spices or lime. Oral: Children, hepatic or renal impairment.

Reduce dose if intractable headache occurs. Discontinue **quickly** if LFT exceed 5 **instances** upper **restriction** of normal. Monitor **intently** for leukocytosis or **respiratory** compromise. Monitor haematologic profile, coagulation parameters, LFT, serum triglyceride and **ldl cholesterol** concentrations regularly.

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