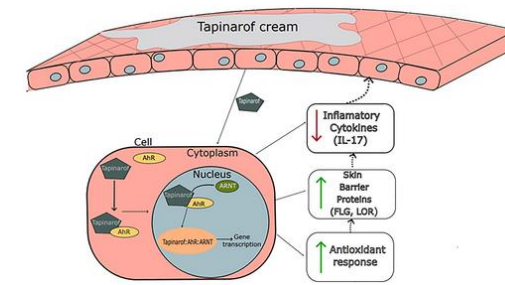


DERMA PEARLS : THERAPEUTICS- 11

Tapinarof for the treatment of psoriasis



- ❖ Tapinarof (GSK2894512) 1% cream ,a novel, first-in-class, small molecule topical therapeutic AhR-modulating agent has been recently approved by the FDA for the topical treatment of plaque psoriasis in adults.
- ❖ Tapinarof binds and activates AhR, reduce skin inflammation, normalize the skin barrier, reduce oxidative stress and regulate gene expression in immune cells
- ❖ In psoriatic skin, the aryl hydrocarbon receptor is present in cutaneous plaques and regulates the inflammatory response as well as the terminal differentiation of keratinocytes and T lymphocytes.
- ❖ AhR activation by tapinarof regulates the differentiation of T-helper (Th17) and T regulatory cells, leading to the downregulation of IL-17 and consequently reducing inflammation in psoriatic skin.
- ❖ most common adverse effects were folliculitis, contact dermatitis, headache and pruritus.

**IADVL – AP
 TEAM GUNTUR**