

A new ERA for global Dermatology 10 - 15 JUNE 2019 MILAN, ITALY

PSORIASIS

BRODALUMAB IS EFFECTIVE IN HARD-TO-TREAT PSORIASIS THAT HAS RELAPSED AFTER IL-17 TARGETING BIOLOGICS: A REAL WORLD STUDY OF THE PSORIASIS IN SOUTH WALES COHORT.

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Introduction: The IL-17 cytokine plays a pivotal role in the pathogenesis of psoriasis, defining the ultimate interaction between immune cells and keratinocytes. Fully human monoclonal antibodies targeting immune cell released 1L-17A alone or IL-17A/F, Secukinumab and Ixekizumab respectively, have proven highly effective in phase 3 studies achieving PASI 100 in 40% of patients. Long-term relapse occurs in up to 40% of patients and the basis for this is unknown.

Objective: Brodalumab is a fully human monoclonal antibodies targeting the IL-17 receptor A on keratinocytes and has proven similarly effective in treatment-naive and anti-TNF relapsed psoriasis. We sought to determine the effectiveness of Brodalumab after relapse from IL-17 targeted therapy in the Psoriasis in South Wales cohort.

Materials and Methods: Within the South Wales population of 2 million there were 18 patients that had relapsed after IL-17 targeting biologics.

Results: The hard-to-treat psoriasis cohort was characterised by: early age of onset 18.6+/-6.5 years, 78% were male, high BMI (31.1+/-3.3), hypertension (30%), diabetes (22%), psoriatic arthritis (44%), and other co-morbidities (60%) including depression (44%). Relapse had occurred despite 4+/-1 prior biologics including one or more (30%) IL-17 targeting biologics. Brodalumab was initiated at age 52+/-7, PASI 13.2+/-4.8, DLQI 14.9+/-6.3. Most patients achieved a PASI 75 within 3-months.

Conclusions: The BADBIR and PSOLAR registries have shown that discontinuation of prior biological therapies may be predictive of lower drug survival with subsequent biological











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therapies. However, the efficacy in prior biologic relapse psoriasis from published studies is not conclusive and moreover, exclusively relate to anti-TNF failures. The biological basis for long term relapse after IL-17A and IL-17A/F remains to be determined. These findings suggest that downstream targeting of the IL-17 pathway with Brodalumab targeting the keratinocyte IL-17 receptor A, remains a valid therapeutic option for patients that relapse after IL-17 targeting therapy.



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