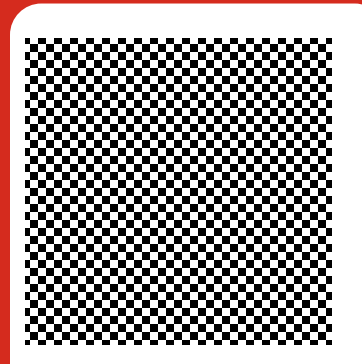


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## 6-month real world study to assess the effectiveness of ixekizumab after switching from IL-23 inhibitors and other biologic therapies: The CorEvitas Psoriasis Registry

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## OBJECTIVE

- To assess the 6-month effectiveness of ixekizumab following a switch from any biologic and separately by prior biologic class (TNFi or IL-12/23i, non-IXE IL-17i, IL-23i)

## CONCLUSIONS

- These findings reaffirm that real-world effectiveness for patients with psoriasis who switch to IXE after discontinuing another biologic demonstrate improvement in disease severity and patient-reported outcomes at 6-months follow-up
- Although patients who switched class (from a TNFi or IL-12/23i, or IL-23i) were more likely to achieve response for some disease severity outcomes compared to patients who switched from another IL-17i, improvements in outcomes were largely similar irrespective of the prior biologic class

## STRENGTHS AND LIMITATIONS

- The CorEvitas Psoriasis Registry provides a unique resource of large sample size, and longitudinal follow-up on the real-world use of biologic drugs in the US and Canada with clinical (e.g. disease activity scores) and patient-reported outcomes data that are not available in claims database
- Our findings are subject to limitations inherent in all observational studies, including the potential for unmeasured confounding and unknown patient factors linked to healthcare access

## SUMMARY OF RESULTS

- 54%, 41%, and 31% of patients who switched from another biologic and initiated ixekizumab achieved PASI75, PASI90 and PASI100, respectively
- 72% of patients maintained or achieved PASI≤3 and 74% of patients maintained or achieved BSA≤3% or experienced at least 75% improvement in BSA
- 48% maintained or achieved DLQI 0/1

Figure 1. Proportion of patients achieving outcomes at 6-months among PsO patients who initiated ixekizumab after switching from another biologic

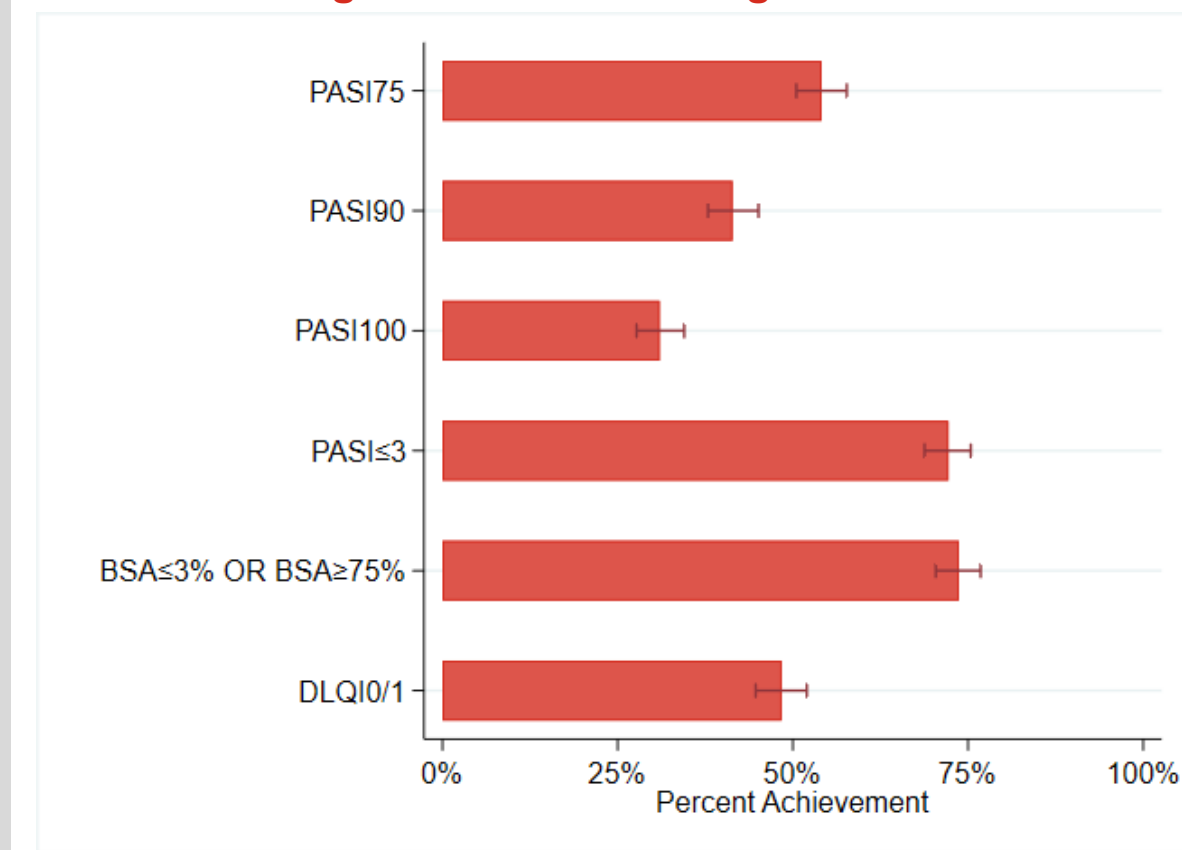
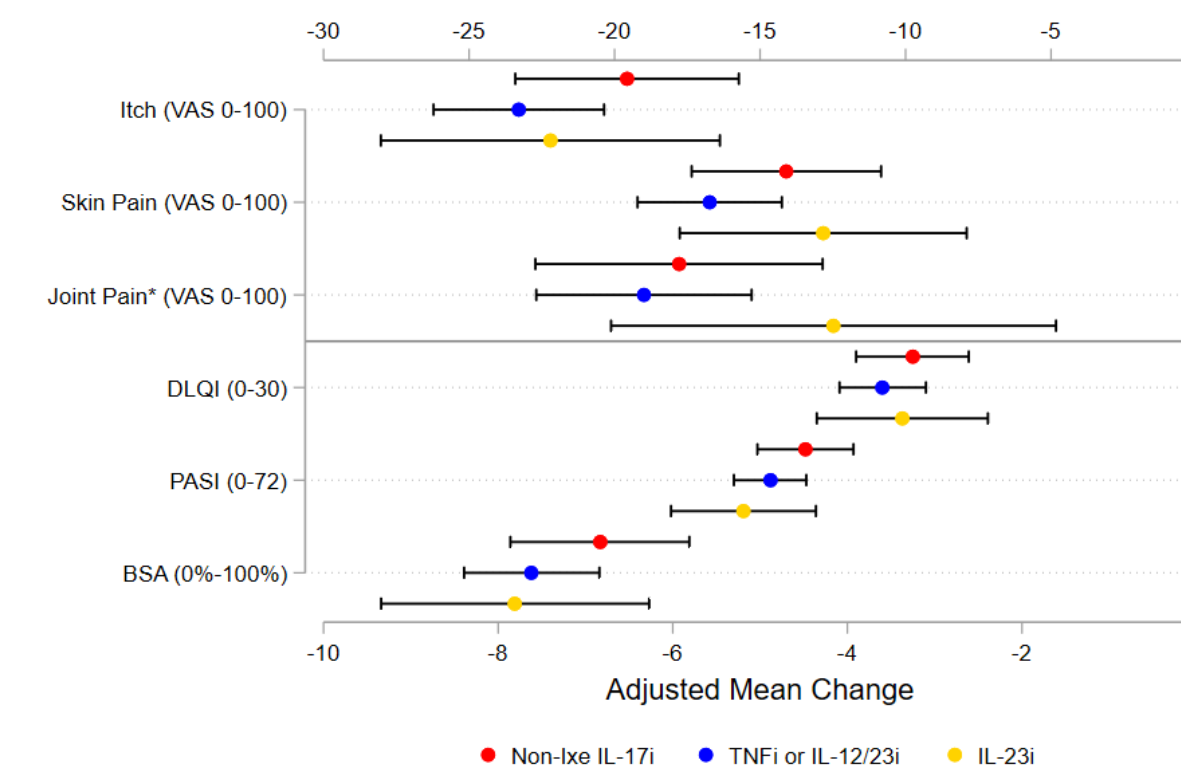


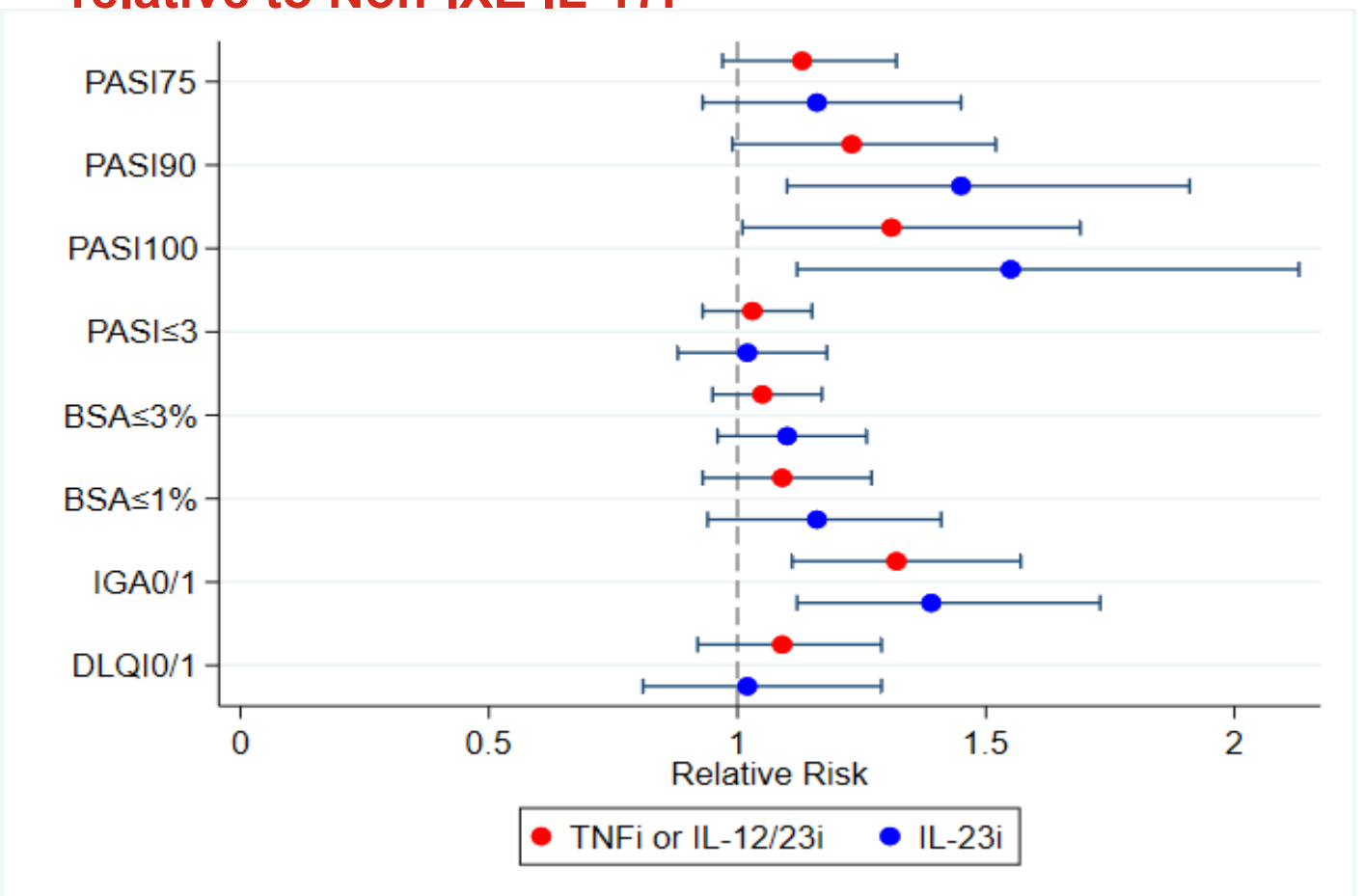
Figure 2. Mean changes in BSA, PASI and PROs at 6 months among IXE initiators by prior biologic class



Mean changes in BSA, PASI and PROs (Figure 2)

- Significant improvement (p<0.001) in patient-reported itch, skin pain, joint pain\* (among those with PsA), DLQI, PASI and BSA were observed (mean change -22.2, -12.8, -12.5, -3.4, -5.2 and -7.8 respectively), for IXE patients who switched from IL-23i
- Statistically significant changes in those outcomes were also observed for IXE patients who switched from non-IXE IL-17i or from the TNFi or IL-12/23i
- Mean changes in outcomes between prior biologic class were not statistically significant

Figure 3. Adjusted relative risks for maintaining/achieving disease and PRO response, relative to Non-IXE IL-17i



Compared to the prior non-IXE IL-17i group (Figure 3)

- The prior TNFi or IL-12/23i group was 31% more likely to achieve PASI100
- The prior IL-23i group was 45% more likely to achieve PASI90, 55% more likely to achieve PASI100 and 39% more likely to achieve IGA 0/1

BSA=body surface area (% involvement); DLQI=Dermatology Life Quality Index; PASI75=Psoriasis Area Severity Index 75% improvement; PASI90=Psoriasis Area Severity Index 90% improvement; PASI100=Psoriasis Area Severity Index 100% improvement

## Background

- Prior work (Lockshin, 2022) showed that patients from the CorEvitas Psoriasis Registry who had previously failed a prior biologic and then initiated ixekizumab (IXE) demonstrated improvements in disease severity and patient-reported outcomes after 6 months
  - However, due to limited sample size, effectiveness of ixekizumab in patients switching from specific, newer biologic classes such as IL-23 inhibitors were not considered
- Since 2020, the CorEvitas Psoriasis Registry has continued to grow, with more follow-up and increasing number of patients initiating newer biologic therapies, facilitating the examination of the effectiveness of ixekizumab after a switch from an IL-23i or other biologics

## Description of the CorEvitas Psoriasis Registry

- The CorEvitas Psoriasis Registry is a prospective, multicenter, non-interventional registry, launched in April 2015, for patients with psoriasis under the care of a dermatologist
- Longitudinal follow-up data is collected from both patients and their treating dermatologists during routine clinical encounters
- The Registry currently (as of 1/31/2023) includes 264 private and academic clinical sites with 605 physicians throughout 48 states/provinces in the US and Canada
  - The Registry has enrolled 18,530 patients with psoriasis.

## Study Design

### Study Population

- CorEvitas Psoriasis Registry patients (n=743) who initiated IXE after discontinuing another biologic therapy, and those who had a corresponding 6-month follow-up visit following IXE initiation (2016-2022) were used in this study
- Immediate prior biologic class groups were classified as: 1) TNFi (adalimumab, certolizumab, etanercept, infliximab, golimumab) or IL-12/23i (ustekinumab); 2) Non-IXE IL-17i (secukinumab, brodalumab); 3) IL-23i (guselkumab, tildrakizumab, risankizumab)

### Statistical Analysis

- Relative risks (RR) and 95% confidence intervals (CI) estimating the likelihood of response in prior biologic class relative to non-IXE IL-17i group for response outcomes were calculated using modified-Poisson regression, adjusting for age, sex, race, psoriasis duration, psoriatic arthritis, number of prior biologics and baseline disease outcome measure
- Adjusted mean changes in itch, skin pain, joint pain\* (among those with PsA), DLQI, PASI and BSA and were calculated for prior biologic class groups (ANCOVA)

### Patient Demographics at Baseline Visit

- Overall, mean age was 51 years, 51% were female, and 79% were white (Table 1)
- Patient demographics, lifestyle characteristics and comorbidity burden largely similar across prior biologic class

BSA=body surface area; DLQI=Dermatology Life Quality Index; IGA=Investigator's Global Assessment; PASI=Psoriasis Area Severity Index; SD=standard deviation

References: J. Lockshin. 2022. "Outcomes in Ixekizumab Patients Following Exposure to Secukinumab and Other Biologics in the CorEvitas Psoriasis Registry." *Dermatology and Therapy* 12: 2797–2815. doi:10.1007/s13555-022-00834-7.

## Results

Table 1. Summary of patient characteristics at baseline, stratified by prior biologic class

	Overall N=743	TNFi or IL-12/23i N=405	Non-IXE IL-17 N=237	IL-23i N=101
Age, years	51.0 (13.4)	51.4 (13.7)	50.1 (12.8)	51.6 (13.9)
Female, n (%)	380 (51.1)	206 (50.9)	119 (50.2)	55 (54.5)
White, n(%)	587 (79.2)	326 (80.7)	184 (77.6)	77 (77.0)
BSA (% Involvement)	11.5 (14.7)	12.5 (15.4)	10.8 (14.6)	9.0 (11.6)
PASI (score: 0-72)	7.5 (7.8)	8.2 (8.0)	7.0 (8.1)	5.6 (5.7)
DLQI (score: 0-30)	7.3 (6.1)	7.6 (5.9)	7.2 (6.5)	6.8 (5.6)
Itch (VAS range 0-100)	48.6 (33.1)	50.7 (32.7)	47.0 (34.1)	43.9 (31.7)
Pain (VAS range 0-100)	33.0 (31.6)	33.5 (31.5)	34.7 (33.4)	27.4 (27.5)
BSA <3%, n(%)	177 (23.8)	75 (18.5)	72 (30.4)	30 (29.7)
BSA <1%, n(%)	45 (6.1)	15 (3.7)	21 (8.9)	9 (8.9)
PASI ≤3%, n(%)	253 (34.1)	118 (29.1)	94 (39.7)	41 (41.0)
IGA ≤ 1, n(%)	88 (11.9)	39 (9.6)	34 (14.3)	15 (15.0)

Data are mean (SD) unless stated otherwise

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