

Real-World Characterization of Patients Initiating Advanced Therapies for Moderate-to-Severe Psoriasis

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Background

- Despite the high efficacy of advanced therapies (ADT), many patients with moderate-to-severe psoriasis remain untreated or undertreated¹
- Real-world data are limited regarding rates of ADT initiation, patient profiles, and size of the ADT-naïve population potentially eligible for ADT

Objectives

- This real-world study of patients with psoriasis aimed to:
 - Quantify the annual proportion of patients who initiated ADT
 - Characterize baseline demographic and clinical characteristics of patients who transitioned to treatment with ADT
 - Identify patients who are potentially ADT-eligible but undertreated, based on matched demographic and clinical characteristics

Methods

Data source	- Closed claims from the HealthVerity taXonomy X database - Restricted to patients continuously enrolled in a commercial plan
Population	- ADT-naïve patients (age ≥12 years) with psoriasis ≥2 diagnosis codes for psoriasis 30-365 days apart from 2010-2024
ADT usage	- First ADT between 2018 and 2024: - bDMARDs: - Anti-IL-17 (brodalumab, ixekizumab, secukinumab, bimekizumab) - Anti-IL-12/23 (ustekinumab) - Anti-IL-23 (guselkumab, risankizumab, tildrakizumab) - Anti-TNF (adalimumab, certolizumab, etanercept, infliximab) - Oral SMDs: - PDE4i (apremilast) - TYK2i (deucravacitinib)
Outcomes	- Baseline characteristics of patients initiating ADT - Proportion of patients initiating their first ADT in each study year (from 2018 to 2024) - Estimated number of ADT-naïve patients with the same demographic and clinical characteristics as those who initiated ADT - Matched with ADT initiators based on treatment history, psoriasis-related HCRU, and comorbidities (including obesity, depression, anxiety, cardiovascular disease, and hypertension)

bDMARDs=biologic disease-modifying anti-rheumatic drugs; HCRU=health-care resource utilization; PDE4i=phosphodiesterase 4 inhibitor; IL=interleukin; SMDs=small molecule drugs; TNF=tumor necrosis factor; TYK2i=tyrosine kinase 2 inhibitor



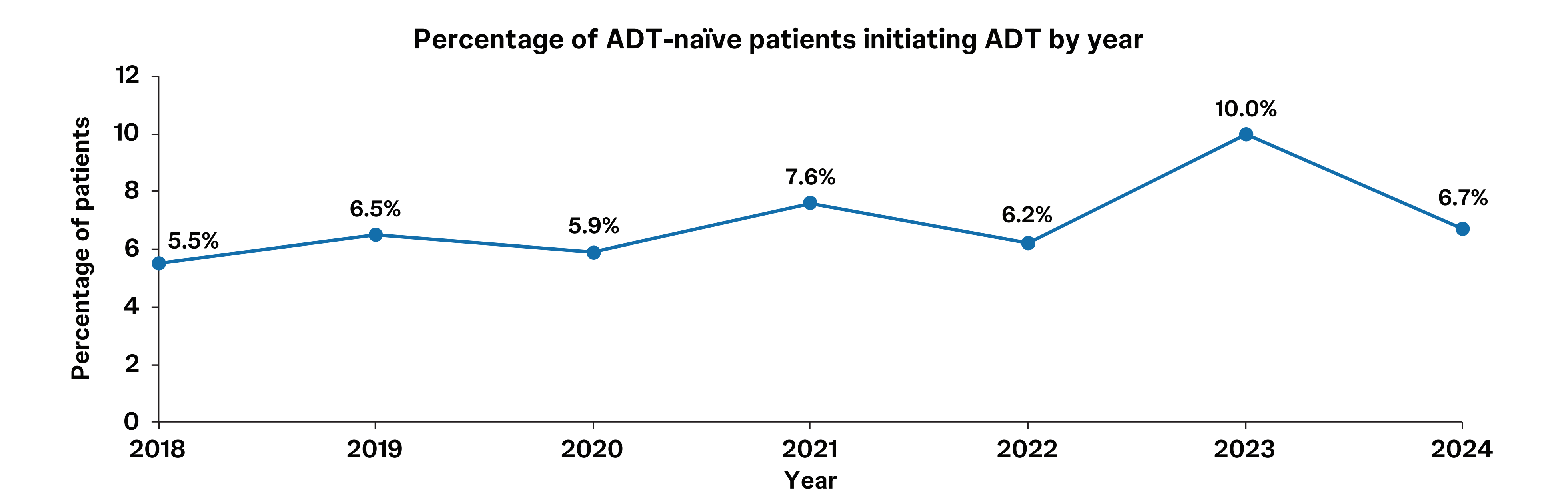
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Key Takeaways

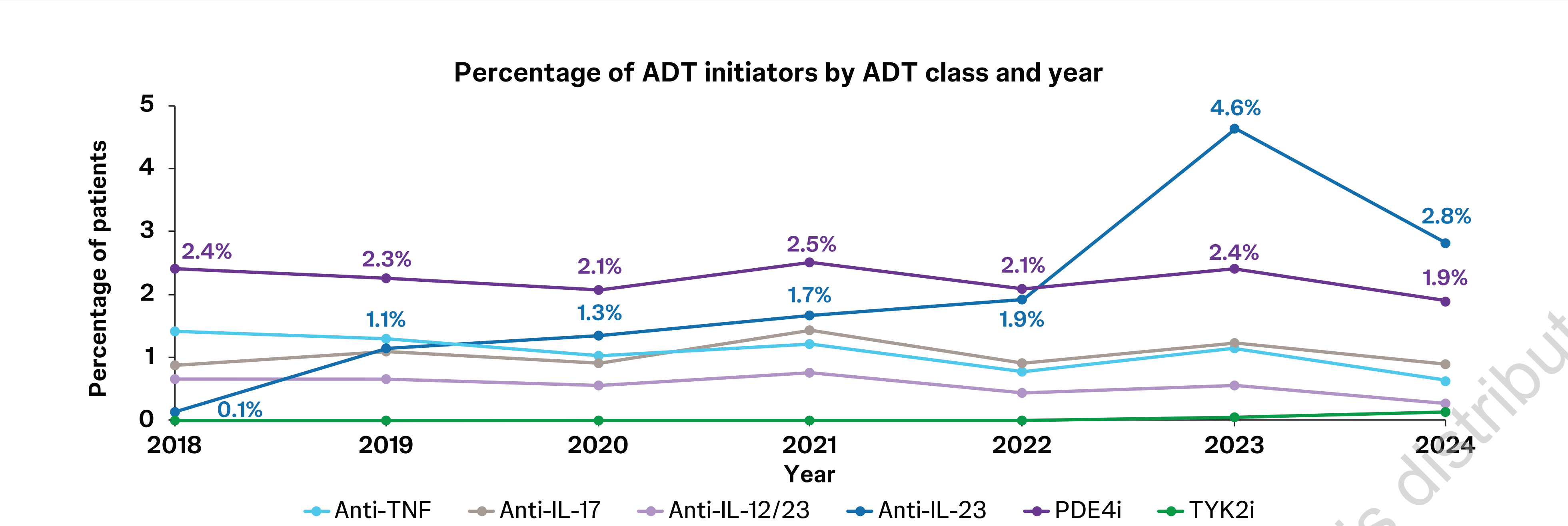
- From 2018 to 2024, ADT initiation patterns for patients with moderate-to-severe psoriasis in this real-world cohort shifted toward more recently approved treatments
- Despite availability of several ADTs, many patients with moderate-to-severe psoriasis appear to remain undertreated

Results

Estimated Percentage of ADT-Naïve Patients Initiating ADT by Year



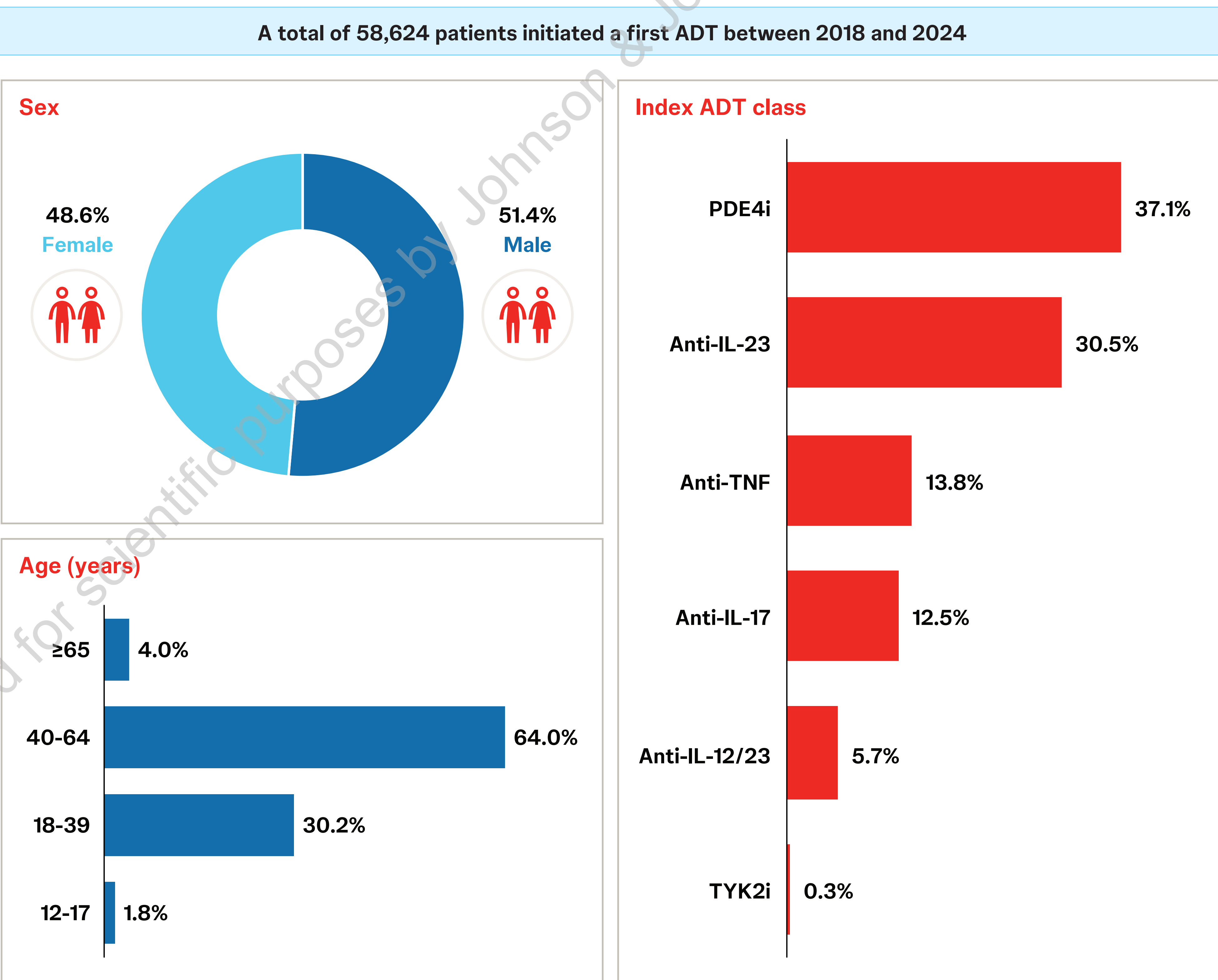
ADT initiation increased from 5.5% in 2018 to 6.7% in 2024



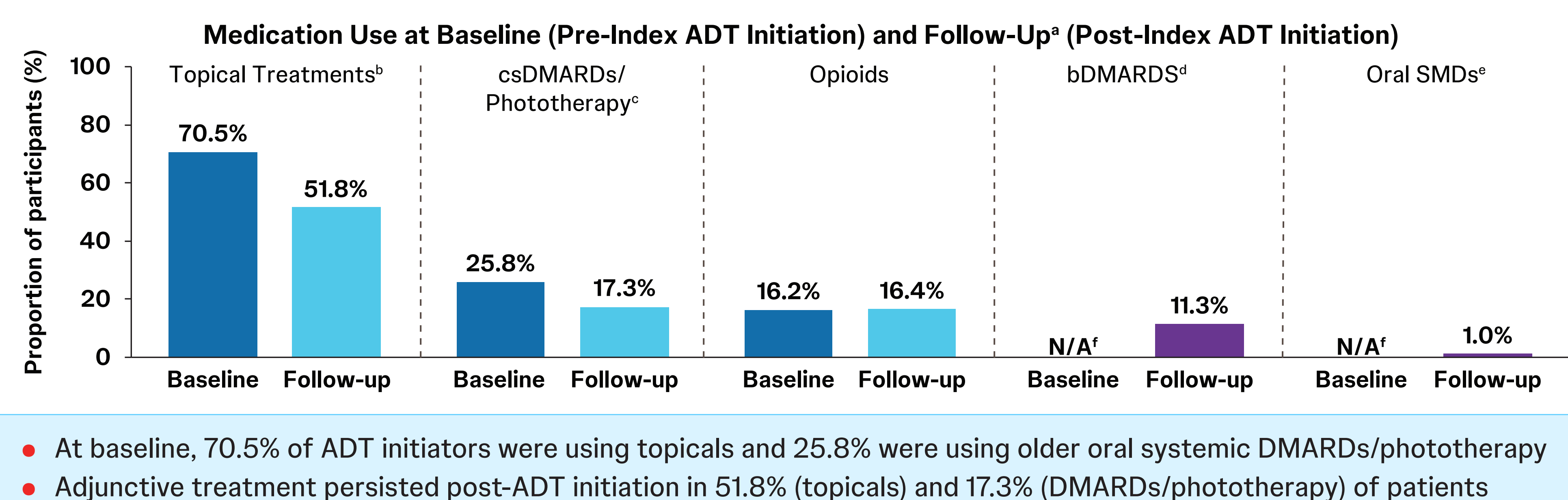
The pattern of ADT initiation by class shifted over time:

- In 2018, the most frequently initiated ADTs were apremilast (PDE4i) and anti-TNFs
- In 2024, the most frequently initiated ADTs were IL-23 inhibitors and apremilast (PDE4i)

Baseline Characteristics of Patients Initiating ADT (2018-2024)

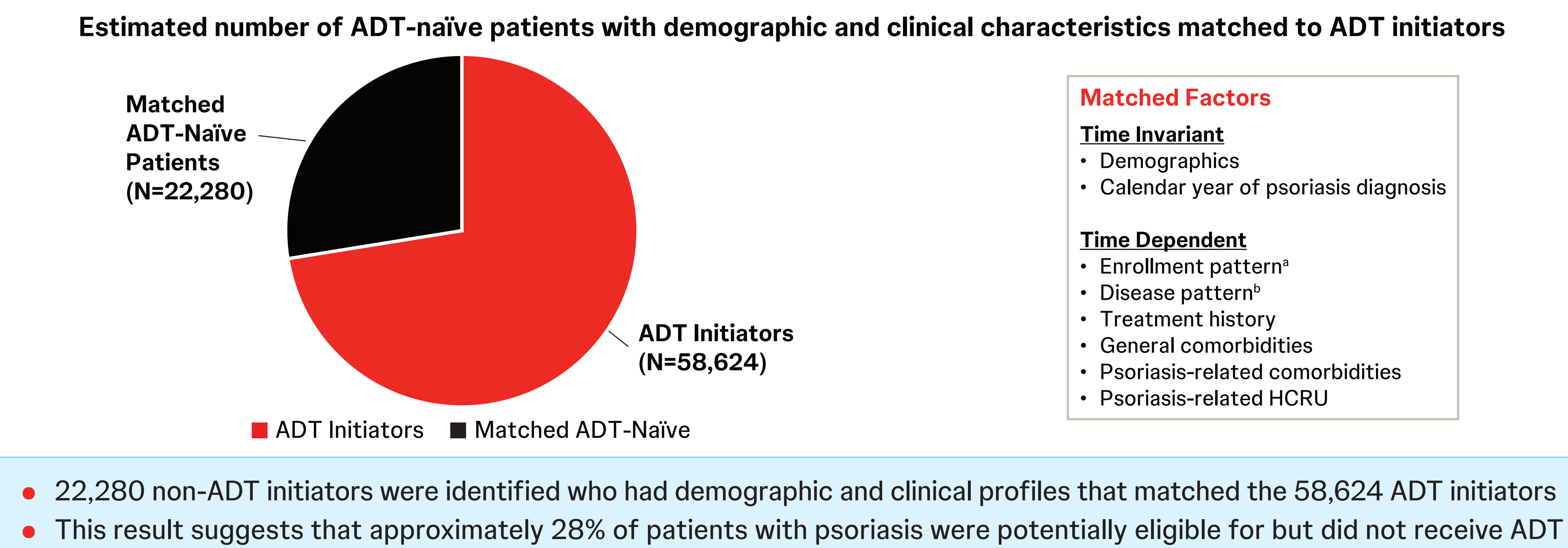


Additional Psoriasis Medication Use at Baseline and During Follow-Up^a



^aBaseline and follow-up were defined as the 1-year period prior to and 1-year post, respectively, relative to the ADT initiation date. ^bTopical treatments included advanced topical therapies, vitamin D analogues, corticosteroids, topical retinoids, and topical calcineurin inhibitors. ^ccsDMARDs/phototherapy included methotrexate, cyclosporine, graptaphene, leflunomide, mycophenolate, acitretin, prednisone, laser therapy, and phototherapy. ^dbDMARDs included anti-TNF (adalimumab, certolizumab, etanercept, infliximab), anti-IL-12/23 (ustekinumab), anti-IL-17 (brodalumab, ixekizumab, secukinumab, bimekizumab), and IL-23 (guselkumab, risankizumab, tildrakizumab). ^eOral SMDs included PDE4i (apremilast) and TYK2i (deucravacitinib). ^fAll patients were SMD-naïve prior to index ADT initiation. ^gcsDMARDs=conventional synthetic disease-modifying anti-rheumatic drugs. ^hNA=not applicable.

Estimated Number of Patients Potentially Eligible for ADT Who Did Not Receive ADT



- 22,280 non-ADT initiators were identified who had demographic and clinical profiles that matched the 58,624 ADT initiators
- This result suggests that approximately 28% of patients with psoriasis were potentially eligible for but did not receive ADT