

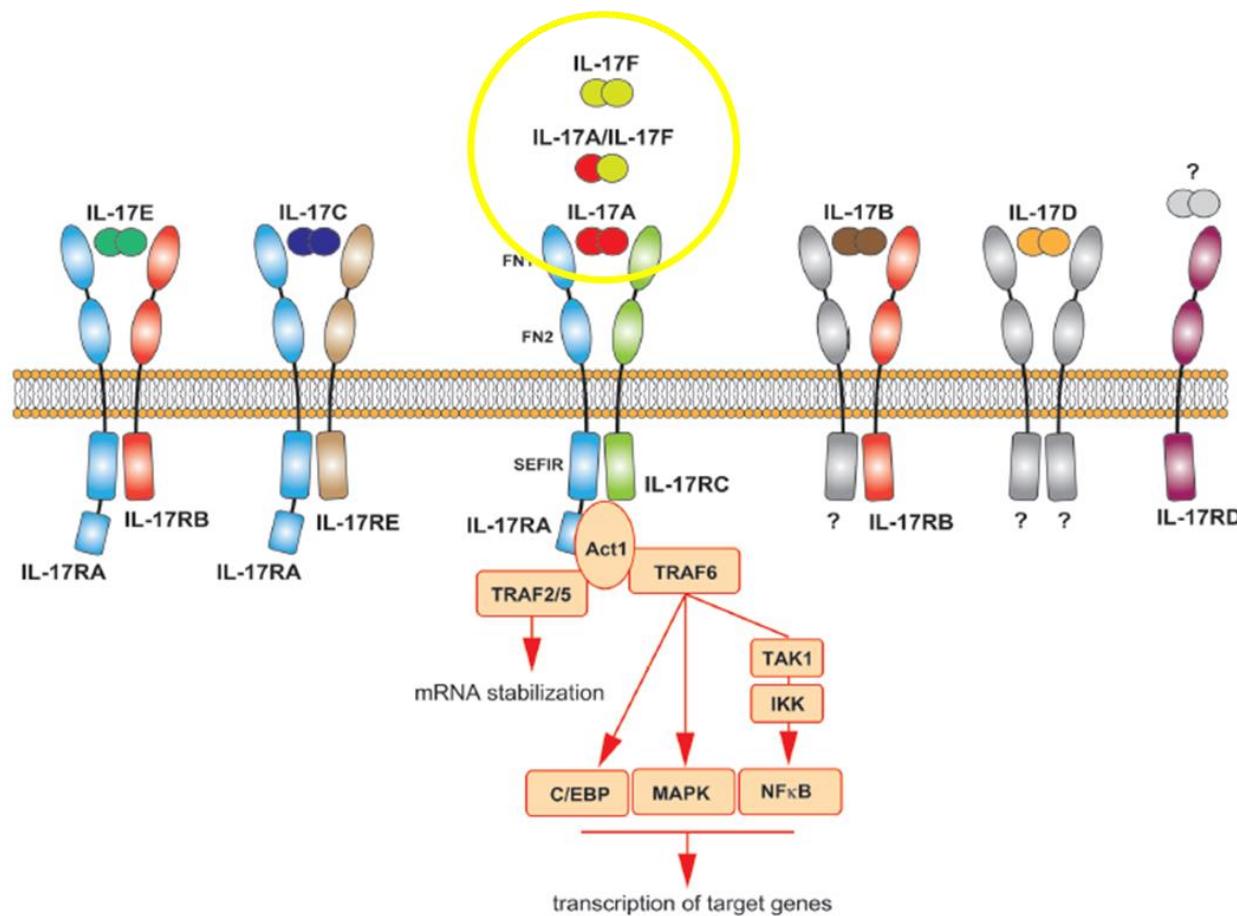


## Dermatology Update

*Giacomo Caldarola*

Gli inibitori delle IL-17 (Secukinumab, Ixekizumab, Bimekizumab) e del loro recettore (Brodalumab)

# The IL-17 family of cytokines<sup>1</sup>



SEFIR: IL-17Rs are categorized by a conserved cytoplasmic motif known as the 'similar expression of fibroblast growth factor and IL-17 receptor' or SEFIR domain, which is similar in structure to the Toll/interleukin-1 receptor (TIR) domain found in Toll-like receptors (TLRs) and IL-1 receptors

In the early 2000s, genomic sequencing led to the identification of several proteins structurally related to IL-17A or IL-17 or CTLA-8 (6 isoforms):

IL-17B  
IL-17C  
IL-17D  
IL-17E (also called IL-25)  
IL-17F

Together, these cytokines are known as the IL-17 family.

**IL-17F shares the highest homology with IL-17A (55%) and is often co-expressed with IL-17A.**

Homodimers or heterodimers of IL-17A and IL-17F bind to a receptor composed of the RA and RC subunits, albeit with differing affinities.

IL-17RA and IL-17RC interact, via **SEFIR domains**, with the **adaptor protein Act1**, which contains two tumour necrosis factor (TNF) receptor-associated factor (TRAF)-binding motifs.

The pathway involving **TRAF6** leads to activation of the canonical *nuclear factor-κB (NF-κB)* and *mitogen activated protein kinase (MAPK)* pathways, and the *CCAAT/enhancer binding protein (C/EBP)* transcription factors resulting in pro-inflammatory gene expression.

A TRAF6-independent, **TRAF2/5** signalling complex associated with IL-17Rs has also been identified that results in enhanced mRNA stability for the chemokine CXCL1.

Disruption of the relative balance of these two signalling pathways has been hypothesized to underlie autoimmune pathogenesis in certain cases.

**IL-17 cytokines do not signal through the JAK–STAT pathway like signature TH1 or TH2 cytokines in the adaptive immune system.**

1.Bremilla NC, et al., Front Immunol. 2018 Aug 2;9:1682; 2. Wang X, et al. Immunity 2012; 36: 23–31



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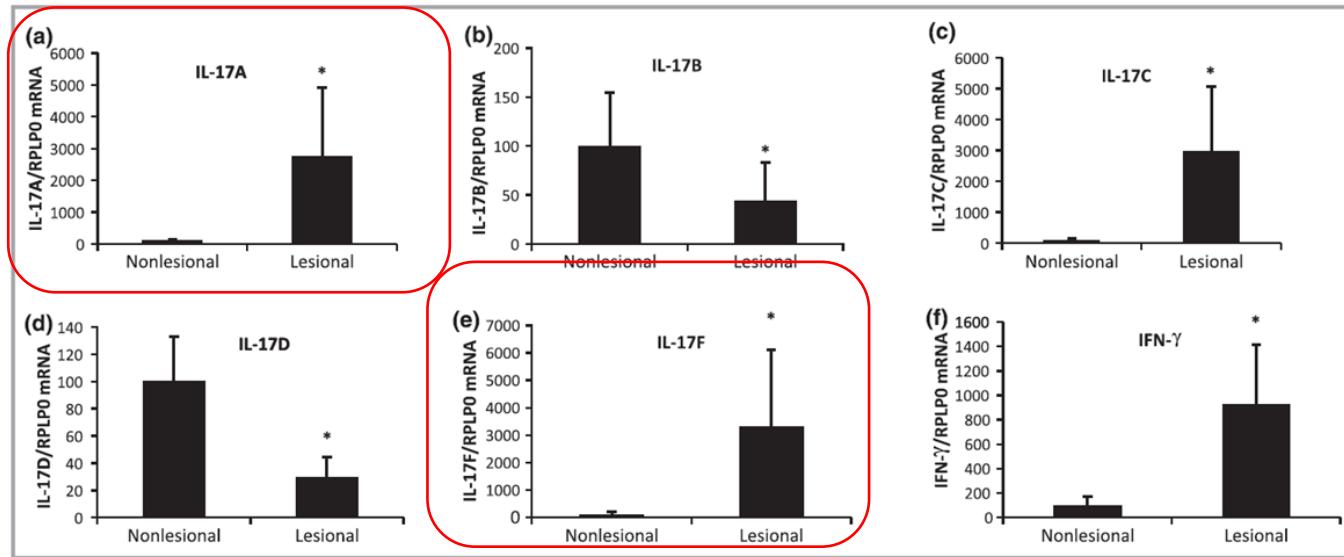
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Roma, 1-2 Dicembre 2023

**YES** *or* **NO**

**CONTEST**  
3° INCONTRO

# mRNA expression profile of the interleukin-17 family members in psoriatic skin



To investigate the mRNA expression profile of the IL-17 family members in psoriatic skin, RNA from punch biopsies obtained from **lesional and nonlesional psoriatic skin from 9 patients with PsO** was isolated and analysed by quantitative RT-PCR.

\*P < 0.01 compared with nonlesional psoriatic skin.

- ↑ in the **mRNA expression of IL-17A and IL-17F in psoriatic skin** of approximately **28-fold and 33-fold**, respectively, compared with nonlesional psoriatic skin.
- mRNA expression of **IL-17C** significantly ↑ in psoriatic skin ( $P = 0.0036$ ) with a mean increase in the mRNA expression of approximately 30-fold compared with nonlesional psoriatic skin.
- In contrast, the mRNA expression of **IL-17B and IL-17D** significantly ↓ in psoriatic skin lesions ( $P = 0.0095$  and  $P = 0.0003$ , respectively), with a mean decrease of approximately 2.3-fold and 3.4-fold, respectively.
- mRNA expression of **IFN- $\gamma$** , a Th1-derived cytokine known to be upregulated in psoriasis, significantly ↑ ( $P = 0.001$ ) in psoriatic skin with a 9-fold induction compared with nonlesional psoriatic skin.

Johansen C, et al., Br J Dermatol 2009



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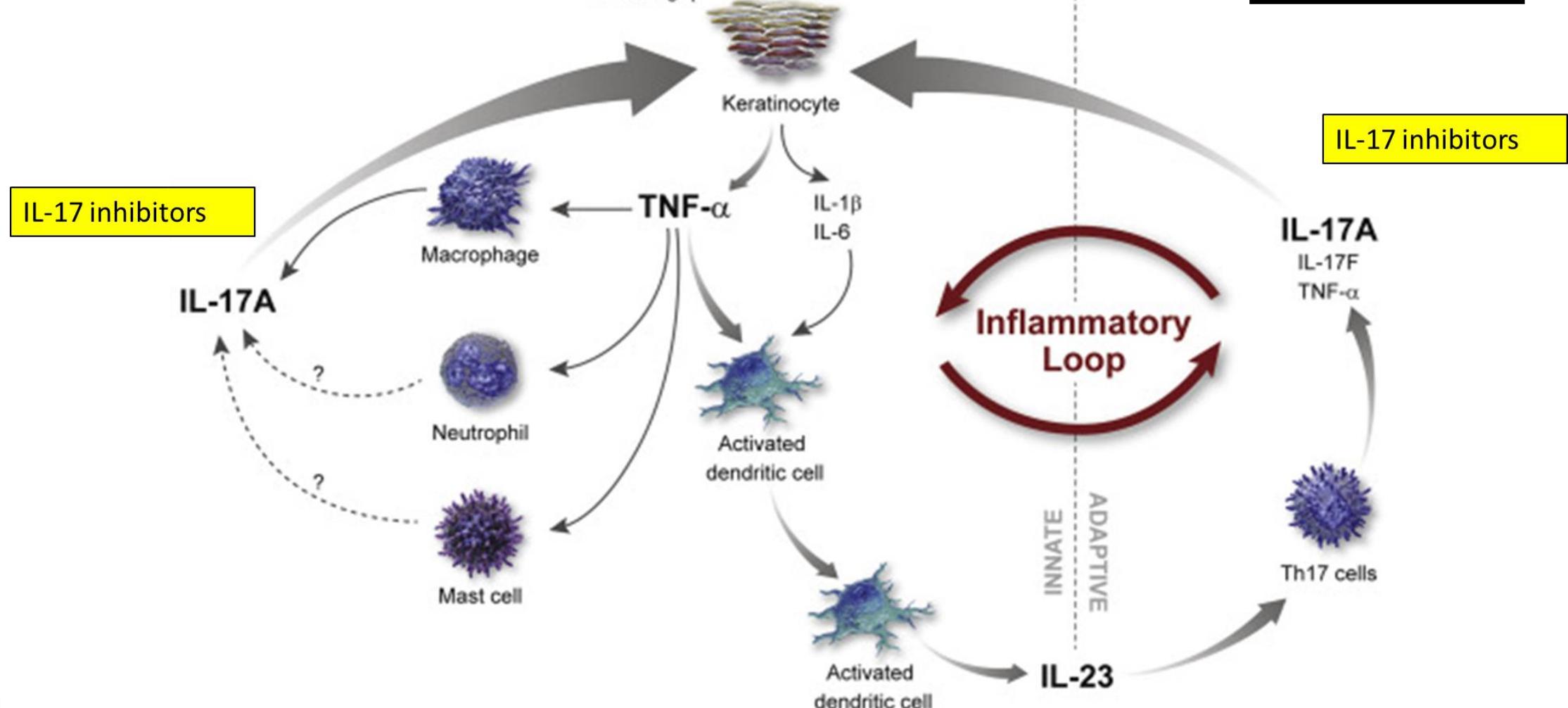
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YES or  
No  
CONTEST  
3° INCONTRO

## Genotype → Environmental Triggers

Stress  
Microorganisms  
Drugs  
Trauma  
Smoking

Secukinumab  
Ixekizumab  
Brodalumab  
Bimekizumab



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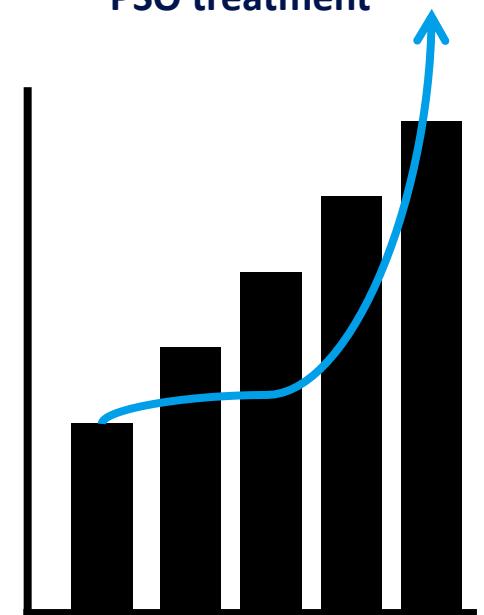
YES or  
NO

CONTEST  
3° INCONTRO

# Cambio di rotta



Raising the bar in  
PSO treatment



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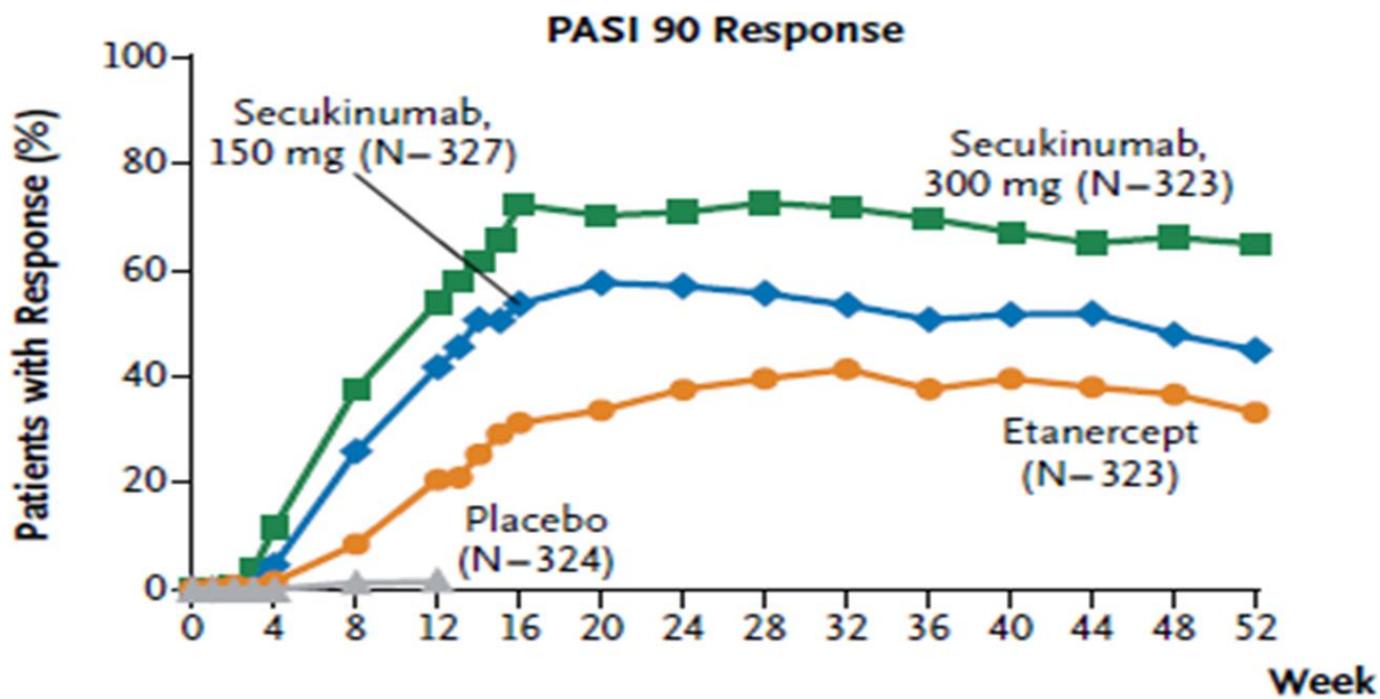
YES or  
NO

CONTEST  
3° INCONTRO

## ORIGINAL ARTICLE

## Secukinumab in Plaque Psoriasis — Results of Two Phase 3 Trials

Richard G. Langley, M.D., Boni E. Elewski, M.D., Mark Lebwohl, M.D., Kristian Reich, M.D., Ph.D., Christopher E.M. Griffiths, M.D., Kim Papp, M.D., Ph.D., Lluís Puig, M.D., Ph.D., Hidemi Nakagawa, M.D., Ph.D., Lynda Spelman, M.B., B.S., Bárður Sigurgeirsson, M.D., Ph.D., Enrique Rivas, M.D., Tsen-Fang Tsai, M.D., Norman Wasel, M.D., Stephen Tyring, M.D., Ph.D., Thomas Salko, B.A., Isabelle Hampele, Ph.D., Marianne Notter, M.S., Alexander Karpov, Ph.D., Silvia Helou, M.D., Ph.D., and Charis Papavassilis, M.D., Ph.D., for the ERASURE and FIXTURE Study Groups\*



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Roma, 1-2 Dicembre 2023

YES or  
NO  
CONTEST  
3° INCONTRO

# Comparison of ixekizumab with etanercept or placebo in moderate-to-severe psoriasis (UNCOVER-2 and UNCOVER-3): results from two phase 3 randomised trials



Christopher E M Griffiths, Kristian Reich, Mark Lebwohl, Peter van de Kerkhof, Carle Paul, Alan Menter, Gregory S Cameron, Janelle Erickson, Lu Zhang, Robert J Secret, Susan Ball, Daniel K Braun, Olawale O Osuntokun, Michael P Heffernan, Brian J Nickoloff, Kim Papp, for the UNCOVER-2 and UNCOVER-3 investigators\*

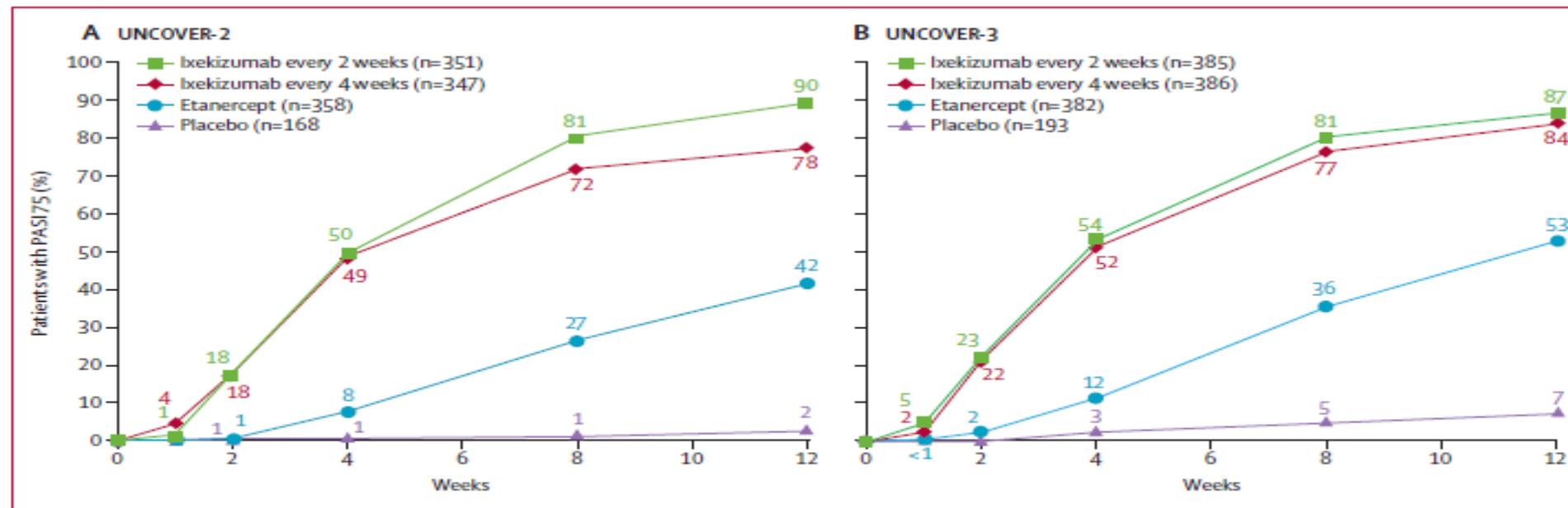


Figure 2: Proportion of patients achieving PASI75 from baseline through to week 12 in UNCOVER-2 (A) and UNCOVER-3 (B). Percentages for each timepoint are colour coded by treatment group, except for 0 values which are not labelled. PASI=psoriasis area and severity index score.



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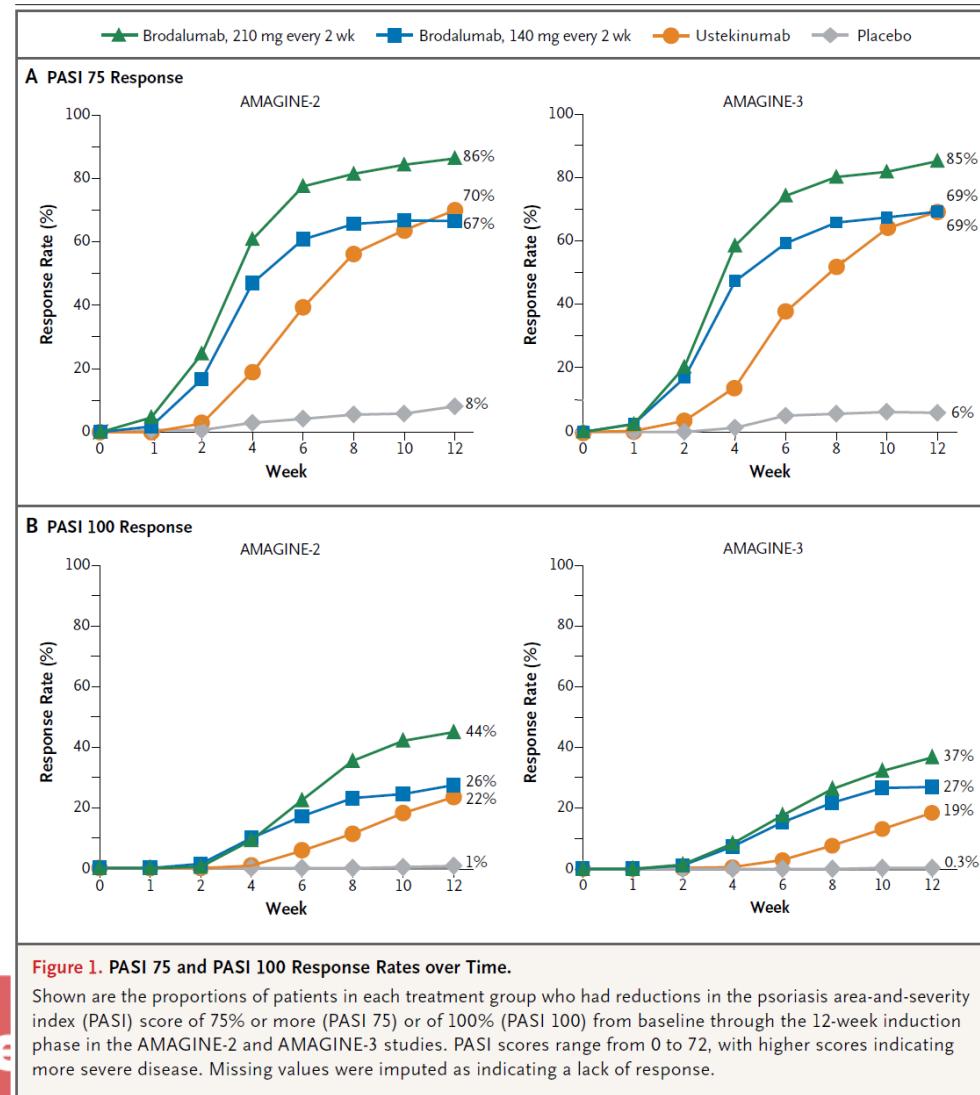
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YES<sup>or</sup>  
NO  
CONTEST  
3° INCONTRO

## ORIGINAL ARTICLE

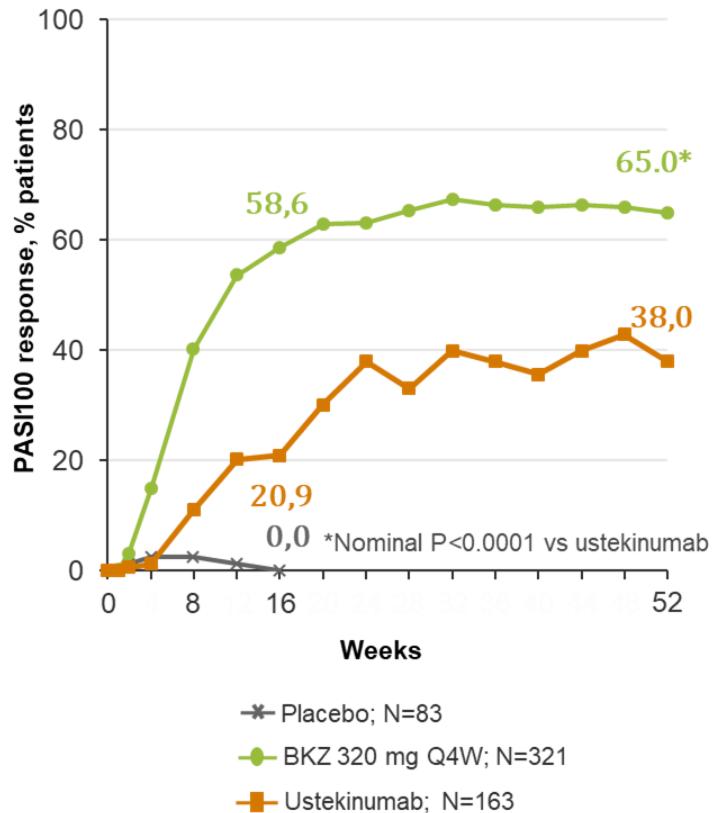
## Phase 3 Studies Comparing Brodalumab with Ustekinumab in Psoriasis



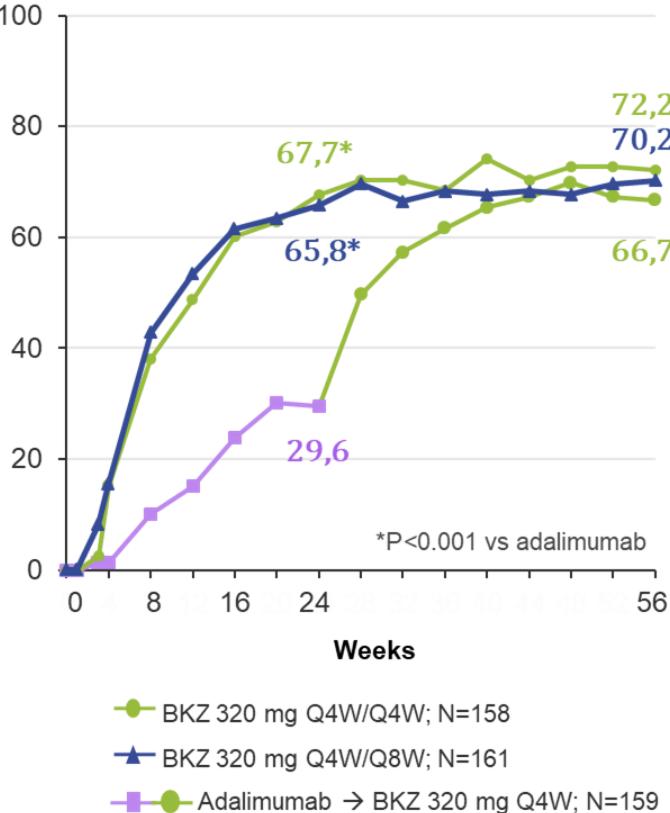
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## BKZ demonstrated durable efficacy PASI100 during Year 1 with BKZ vs active comparators (NRI)

BE VIVID<sup>1</sup>



BE SURE<sup>2,3</sup>



In BE SURE, PASI100 at Week 24 was a ranked secondary endpoint. In BE RADIANT, PASI100 at Week 48, was a ranked secondary endpoint. In BE SURE, patients in the BKZ Q4W/Q8W arm switched at Week 16 from Q4W to BKZ Q8W, and patients in the Adalimumab → BKZ Q4W arm switched at Week 24 from adalimumab to BKZ Q4W. <sup>†</sup>These data are taken from the maintenance set. All figures adapted from the cited reference(s). 1. Reich et al. Lancet 2021;397:487–98. 2. Warren et al. N Engl J Med 2021;385:130–41. 3. Warren et al. Presented at EADV 2020. 4. Reich et al. N Engl J Med 2021;385:142–52. 5. PS0015. Table 6.3.1.9.



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YES or  
No  
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3° INCONTRO

# European S3-Guidelines on the systemic treatment of psoriasis vulgaris

Supported by the EDF/EADV/IPC

D Pathirana, AD Ormerod, P Saiag, C Smith, PI Spuls, A Nast, J Barker, JD Bos, G-R Burmester, S Chimenti, L Dubertret, B Eberlein, R Erdmann, J Ferguson, G Girolomoni, P Gisondi, A Giunta, C Griffiths, H Höningmann, M Hussain, R Jobling, S-L Karvonen, L Kemeny, I Kopp, C Leonardi, M Maccarone, A Menter, U Mrowietz, L Naldi, T Nijsten, J-P Ortonne, H-D Orzechowski, T Rantanen, K Reich, N Reytan, H Richards, HB Thio, P van de Kerkhof, B Rzany\*

**Table 1** Proposal for treatment goals in psoriasis (adapted from <sup>18</sup>)

	Skin symptoms	HRQoL
Treatment goals (assessment after 10 to 16 weeks, and every 8 weeks thereafter)	PASI 75 or, alternatively, PGA of 'clear' or 'almost clear'	DLQI of 0 or 1
Minimum efficiency; 'lowest hurdle'	PASI 50	DLQI < 5 or, alternatively, DLQI improvement of at least 5 points



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# Italian guidelines on the systemic treatments of moderate-to-severe plaque psoriasis

P. Gisondi,<sup>1,\*</sup> G. Altomare,<sup>2</sup> F. Ayala,<sup>3</sup> F. Bardazzi,<sup>4</sup> L. Bianchi,<sup>5</sup> A. Chiricozzi,<sup>6</sup> A. Costanzo,<sup>7</sup> A. Conti,<sup>8</sup> P. Dapavo,<sup>9</sup> C. De Simone,<sup>10</sup> C. Foti,<sup>11</sup> L. Naldi,<sup>12</sup> A. Offidani,<sup>13</sup> A. Parodi,<sup>14</sup> S. Piaserico,<sup>15</sup> F. Prignano,<sup>16</sup> F. Rongioletti,<sup>17</sup> L. Stingeni,<sup>18</sup> M. Talamonti,<sup>5</sup> G. Girolomoni<sup>1</sup>

**Table 2** Treatment goals in moderate-to-severe psoriasis

- Treatment goals should be agreed with the patient based on informed discussion
- PASI75
- PASI90
- There is a need to define the minimum absolute PASI (i.e. <1 or 2)
- DLQI < 5



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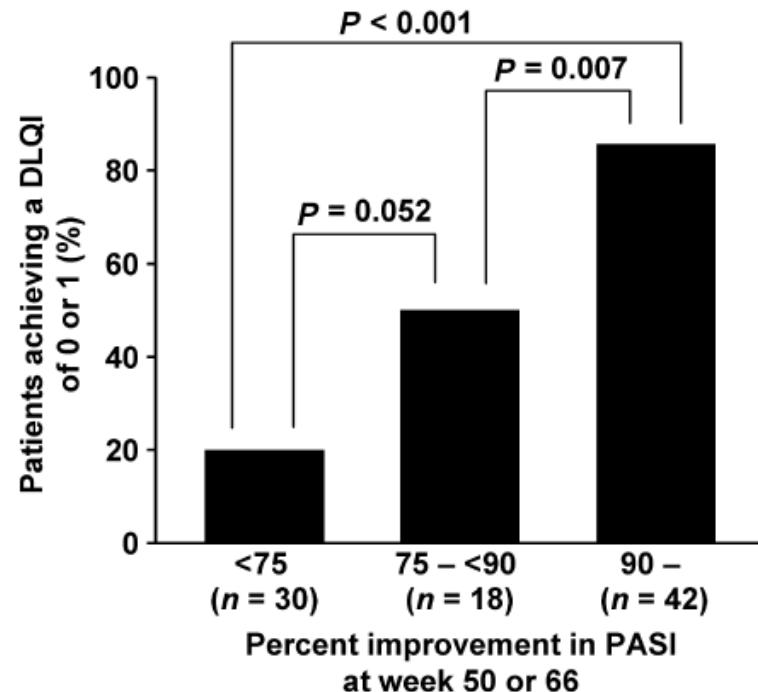
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## ORIGINAL ARTICLE

## Dramatic impact of a Psoriasis Area and Severity Index 90 response on the quality of life in patients with psoriasis: An analysis of Japanese clinical trials of infliximab

Hideshi TORII,<sup>1</sup> Noriko SATO,<sup>2</sup> Toru YOSHINARI,<sup>2</sup> Hidemi NAKAGAWA,<sup>3</sup> The Japanese Infliximab Study Investigators\*

<sup>1</sup>Division of Dermatology, Social Insurance Central General Hospital Tokyo, <sup>3</sup>Department of Dermatology, The Jikei University School of Medicine, Tokyo, and <sup>2</sup>Mitsubishi Tanabe Pharma, Osaka, Japan



**Figure 5.** Percentage of patients achieving a Dermatology Life Quality Index (DLQI) of 0 or 1 according to percent improvement in Psoriasis Area and Severity Index (PASI) at the complete assessment (week 50 or 66).



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# Storia clinica

- Marcello, 68 anni
- Psoriasi volgare da circa 30 anni
- BMI: 30
- Fumatore di 20 sigarette/die da circa 40 anni



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# Storia clinica

- **Disturbo bipolare**, in terapia con risperidone, litio, acido valproico, carbamazepina, quetiapina, clonazepam
- **Dislipidemia**, in terapia con atorvastatina
- **Ipertensione arteriosa**, in terapia con amlodipina, ramipril, acido acetilsalicilico 100 mg
- **Diabete di tipo 2**, in terapia con metformina
- **Ipotiroidismo**, in terapia con levotiroxina
- Pgressa emorragia cerebrale per dissecazione aneurisma cerebrale (nel 1999)
- TIA nel 2004



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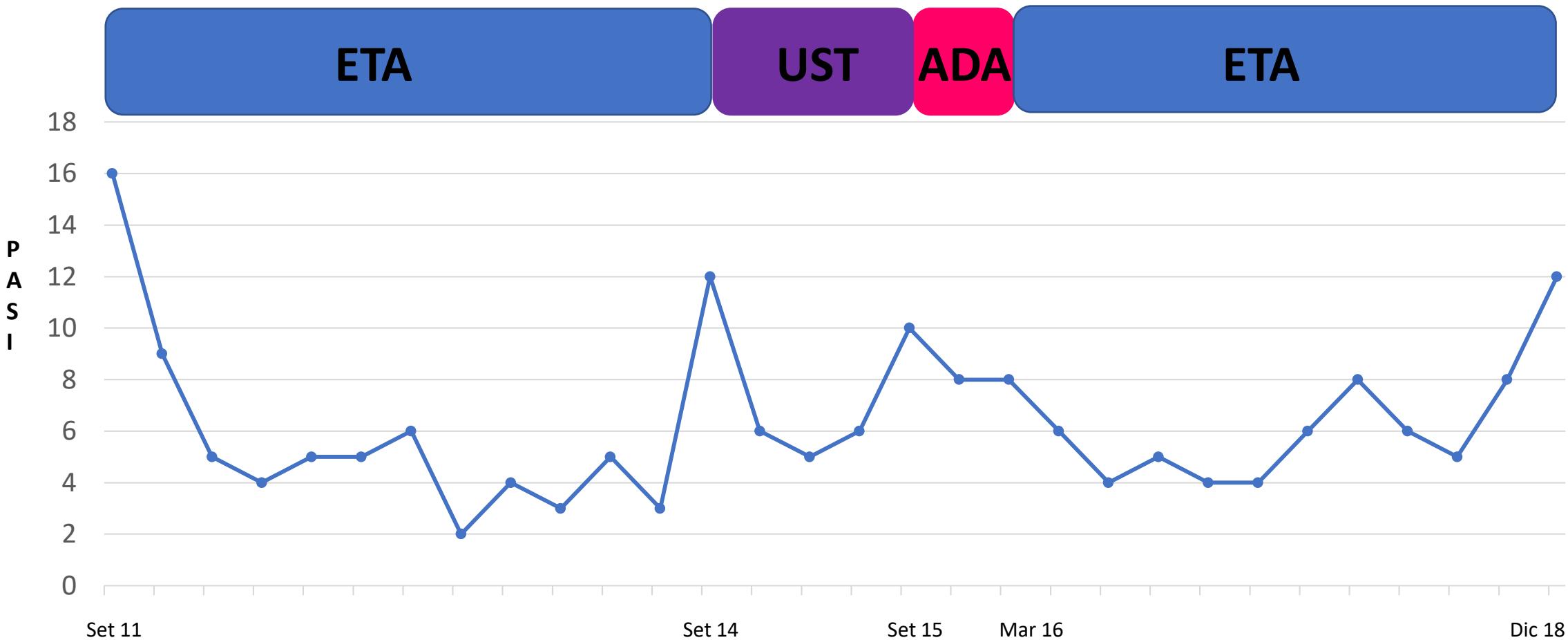
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# Storia clinica



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NO

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# Caso 1 – Marcello

**Week 0**  
PASI: 25  
DLQI: 16



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YES or  
NO

CONTEST  
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# Caso 1 – Marcello

**Week 0**  
PASI: 25  
DLQI: 16



**Week 4**  
PASI: 2  
DLQI: 5



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YES or  
NO

CONTEST  
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# Caso 1 – Marcello

**Week 0**  
PASI: 25  
DLQI: 16



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Roma, 1-2 Dicembre 2023

**YES or  
NO**

**CONTEST  
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# Caso 1 – Marcello

**Week 0**  
PASI: 25  
DLQI: 16



**Week 4**  
PASI: 2  
DLQI: 5



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YES or  
NO

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# Caso 1 – Marcello



**Week 16**

PASI: 0

DLQI: 0

Nessun evento avverso



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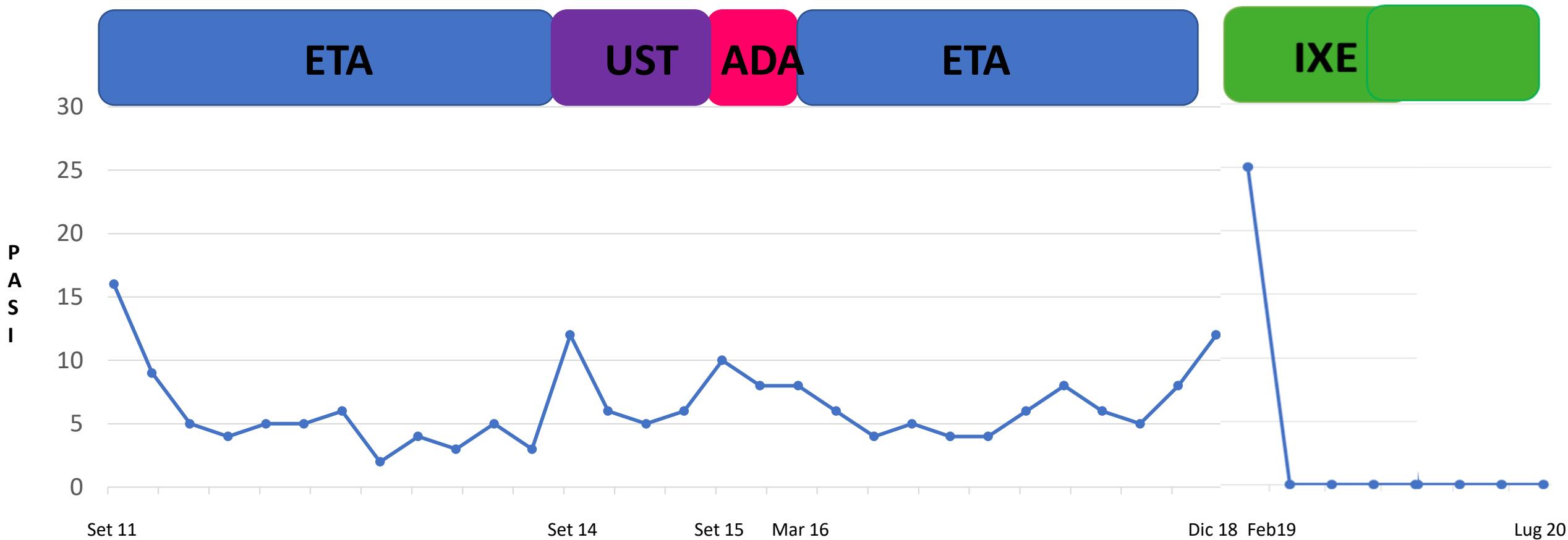
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# Caso 1 – Marcello



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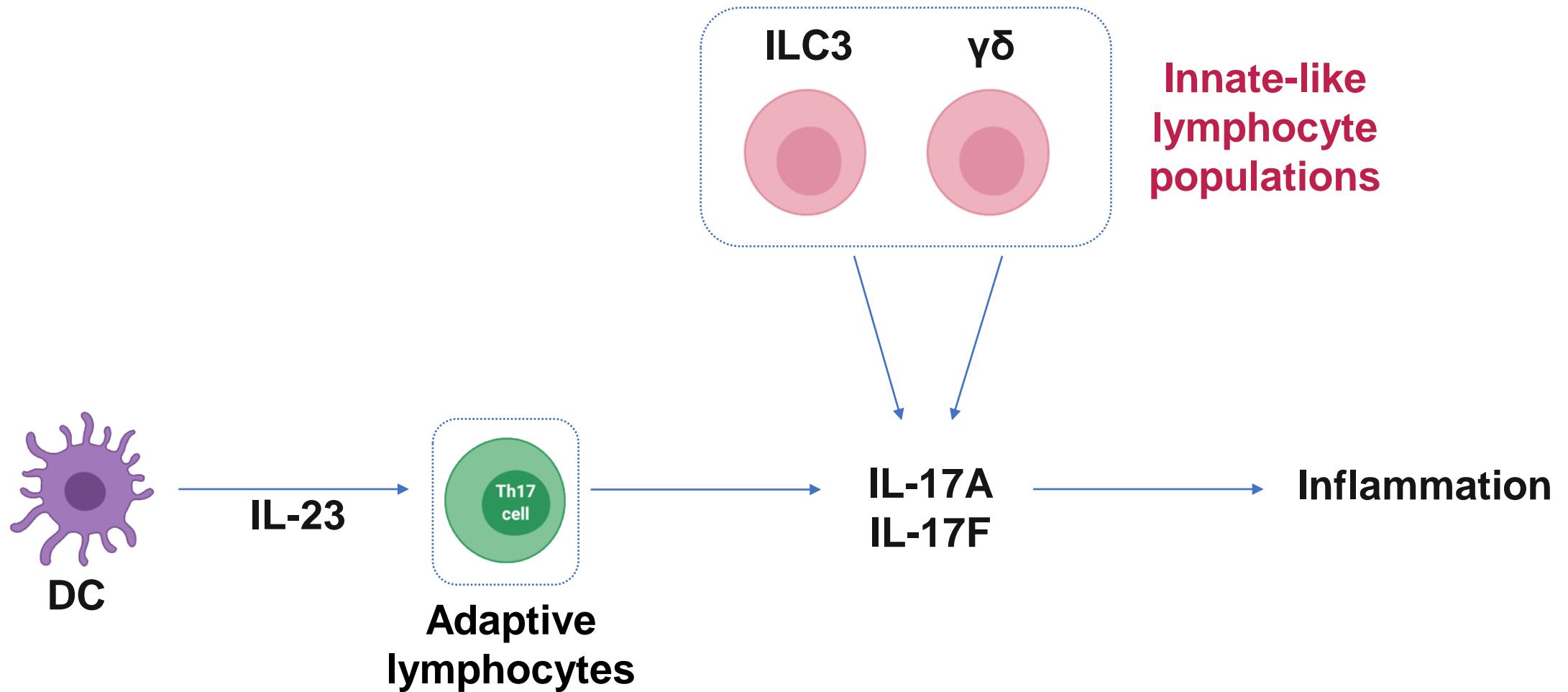
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Roma, 1-2 Dicembre 2023

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# Cellular sources of IL-17A and IL-17F include both adaptive and innate-like lymphocyte populations<sup>1</sup>



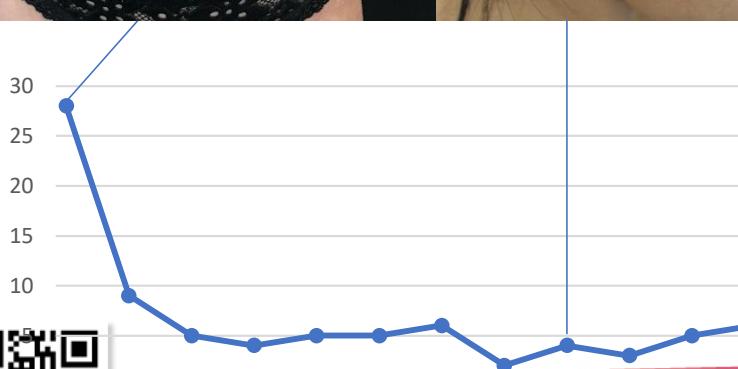
# Caso 2 - Giulia



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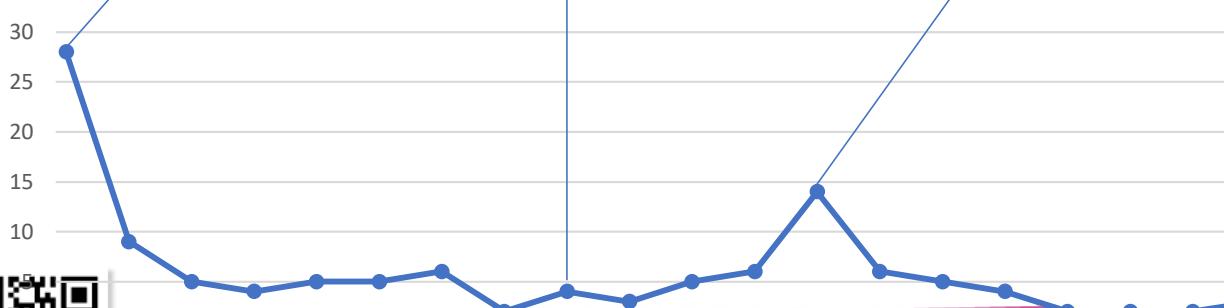
# Caso 2 - Giulia



ANTI TNF ALFA

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# Caso 2 - Giulia



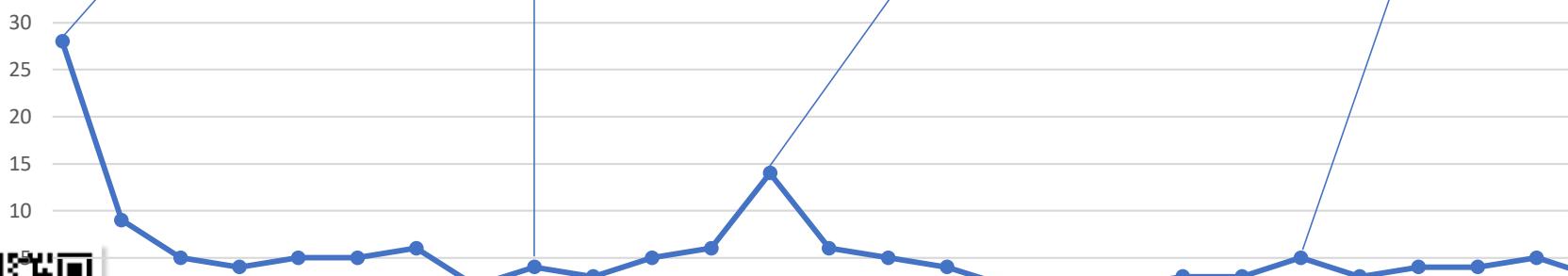
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ANTI IL23

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# Caso 2 - Giulia



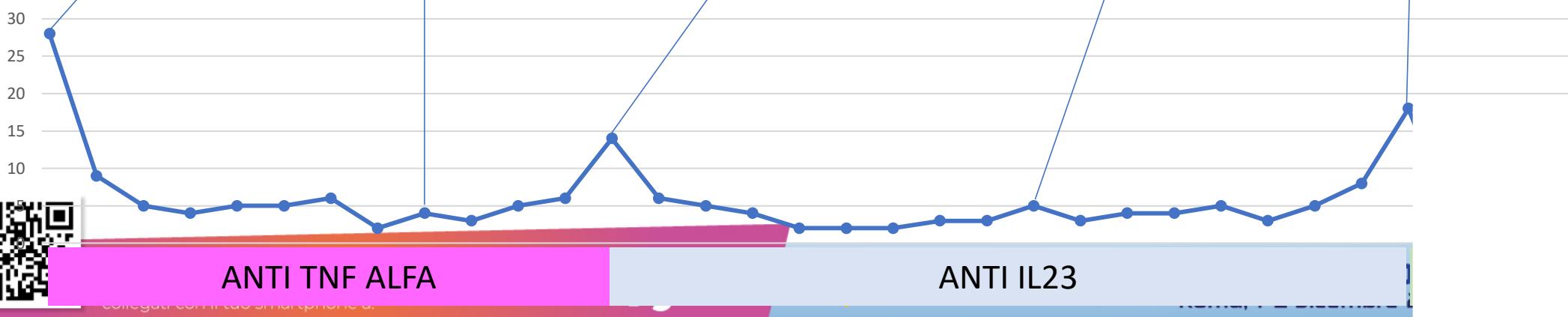
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ANTI IL23

REVIEW

# Caso 2 - Giulia



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# Caso 2 - Giulia



30

25

20

15

10

5

0



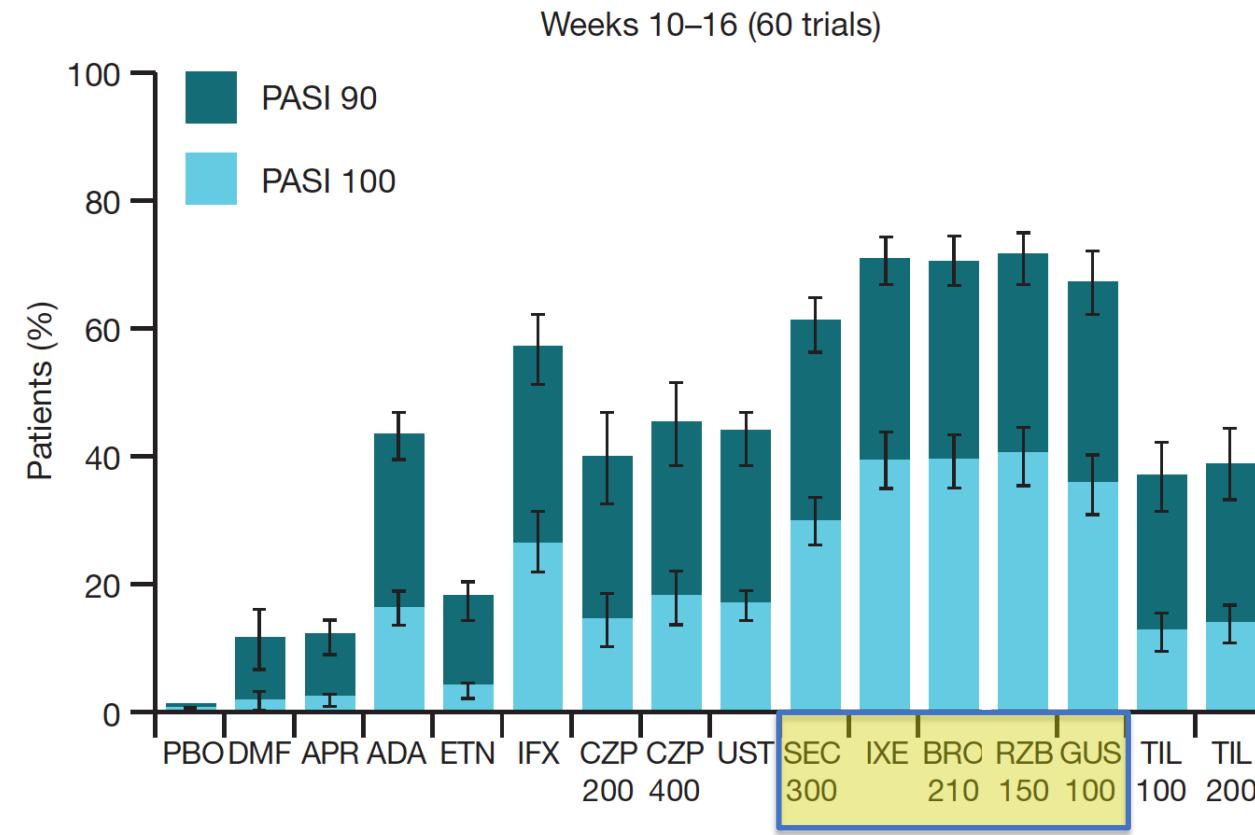
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ANTI IL23

ANTI IL17

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# Efficacy in psoriasis: network meta-analysis favors IL-17A and p19 blockade



\* p < 0.05 vs SEC. † p < 0.05 vs SEC and IXE. ‡ p < 0.05 vs GUS.

APR, apremilast; BRO, brodalumab; CZP, certolizumab pegol; DMF, dimethyl fumarate; ETN, etanercept; IFX, infliximab; IXE, ixekizumab; NMA, network meta-analysis; TIL, tildrakizumab.



Armstrong AW, et al. JAMA Dermatol 2020; 156(3):258–269

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YES or  
NO  
CONTEST  
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# ...ma quanto veloce?



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YES or  
NO

CONTEST  
3° INCONTRO

# Caso 3 - Alessandro

- 48 anni
- BMI 24
- Psoriasis dall'età di 25 anni
- Artrite psoriasica dall'età di 30 anni
- Precedenti terapie: Adalimumab (sospeso per perdita di efficacia a settembre 2021)



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YES or  
NO

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# Caso 3 - Alessandro



PASI 22

VAS dolore 3/10



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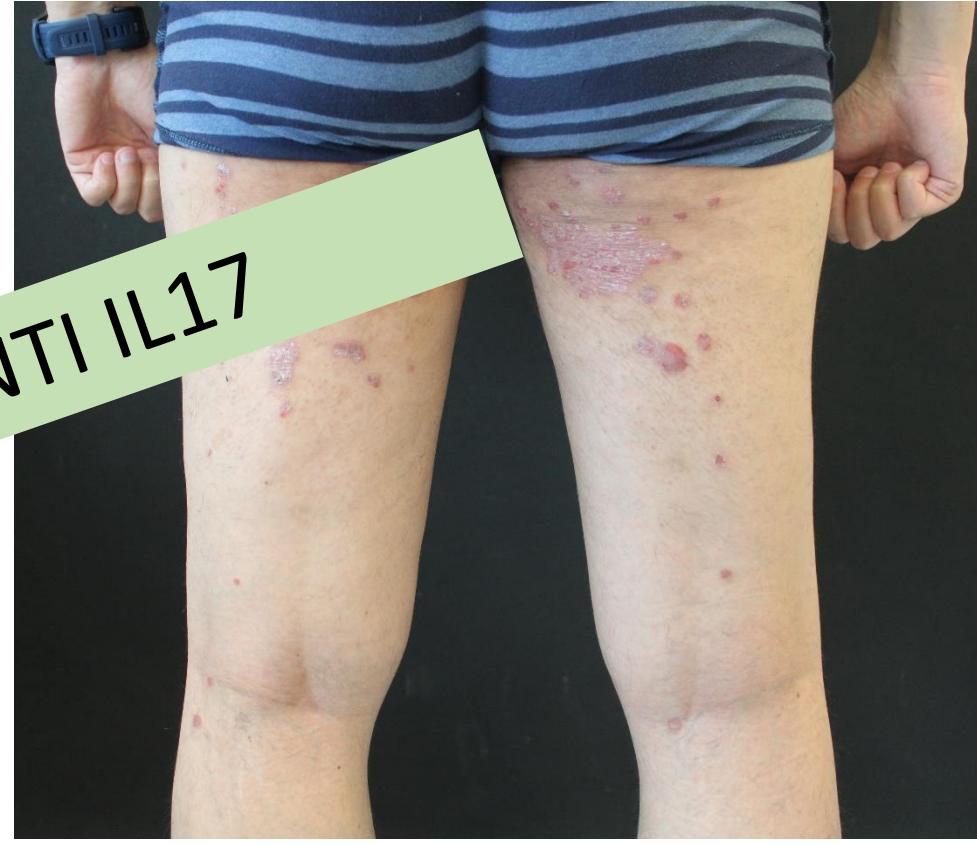
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# Caso 3 - Alessandro



ANTI IL17



PASI 22

VAS dolore 3/10



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YES or  
NO

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# Caso 3 - Alessandro

Week 4



PASI 1,2

VAS dolore 0/10



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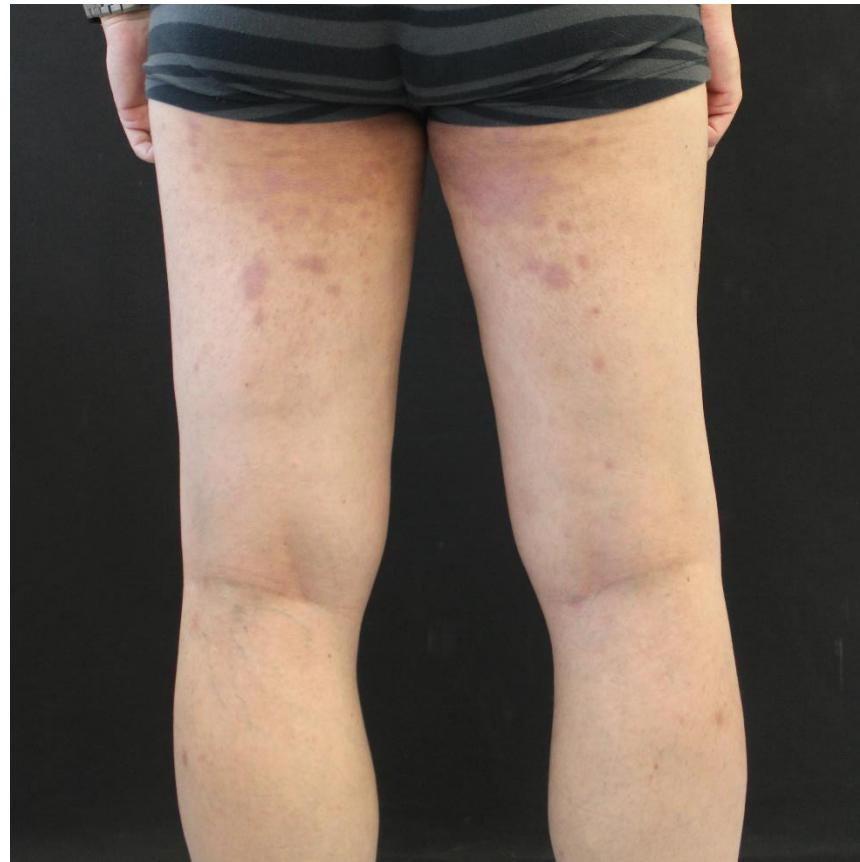
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YES or  
NO

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# Caso 3 - Alessandro

Week 4



PASI 1,2

VAS dolore 0/10



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YES or  
NO

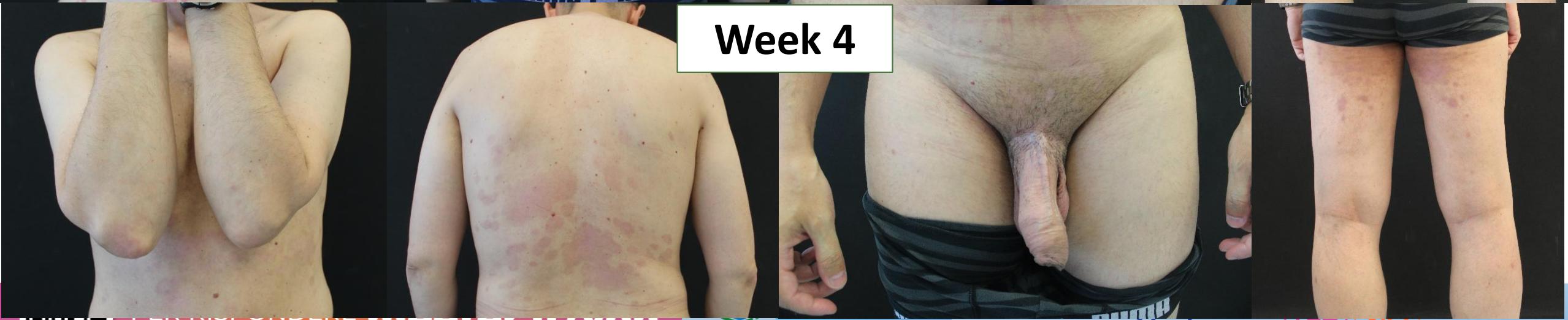
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# Caso 3 - Alessandro

Week 0



Week 4



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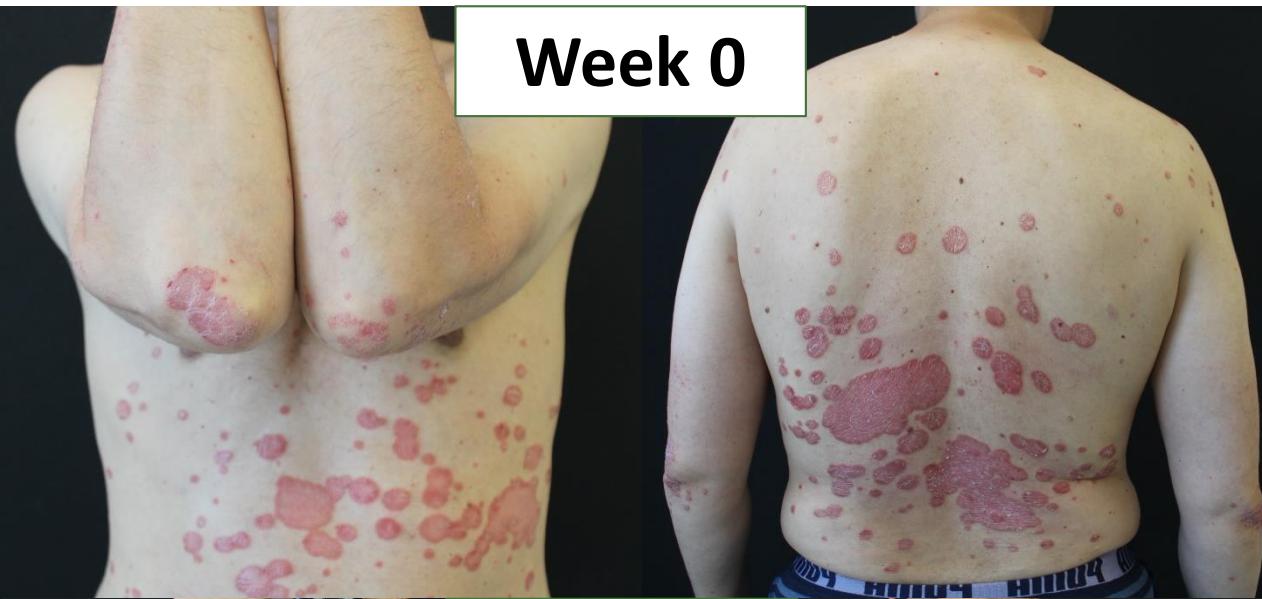


NOT

3° INCONTRO

# Caso 3 - Alessandro

Week 0



Week 4



Week 12



Do



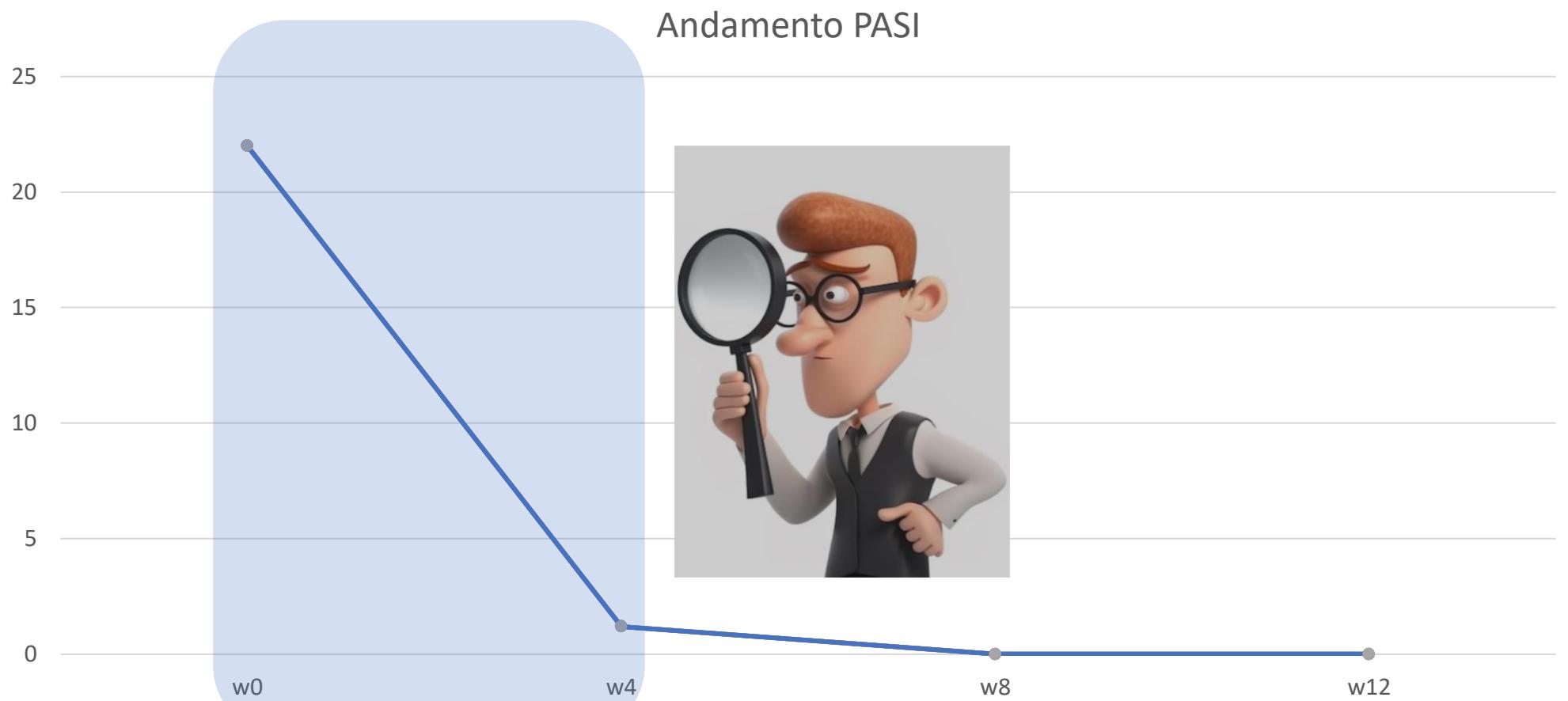
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Roma, 1-2 Dicembre 2023

YES or  
NO

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# DAY 1



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Roma, 1-2 Dicembre 2023

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# DAY 2



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# DAY 3



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YES <sup>or</sup> NO

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# DAY 4



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Roma, 1-2 Dicembre 2023

**YES or  
NO**

**CONTEST  
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# DAY 5



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YES <sup>or</sup> NO

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# DAY 6



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# DAY 7



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# DAY 8



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YES *or* NO

CONTEST  
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# DAY 9



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YES or  
NO

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# DAY 11



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YES <sup>or</sup> NO

CONTEST  
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# DAY 1



# DAY 13



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YES or  
NO

CONTEST  
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# DAY 15



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Roma, 1-2 Dicembre 2023

**YES<sup>or</sup>  
No**

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# DAY 17



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Roma, 1-2 Dicembre 2023

**YES or  
NO**

**CONTEST  
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# DAY 19



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Roma, 1-2 Dicembre 2023

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# DAY 26



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YES or  
NO

CONTEST  
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# DAY 27



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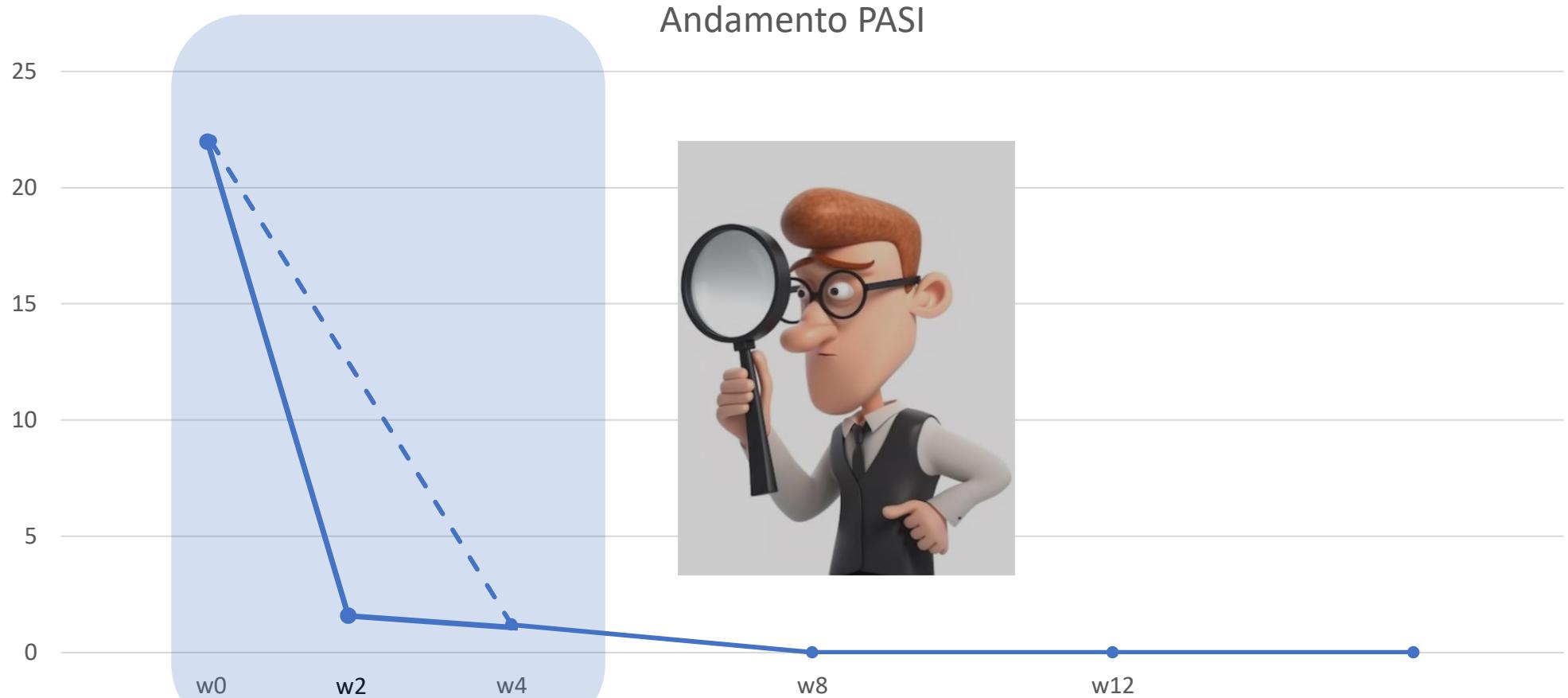
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Dermatology Update  
Roma, 1-2 Dicembre 2023

YES <sup>or</sup> NO

CONTEST  
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# Caso 3 - Alessandro



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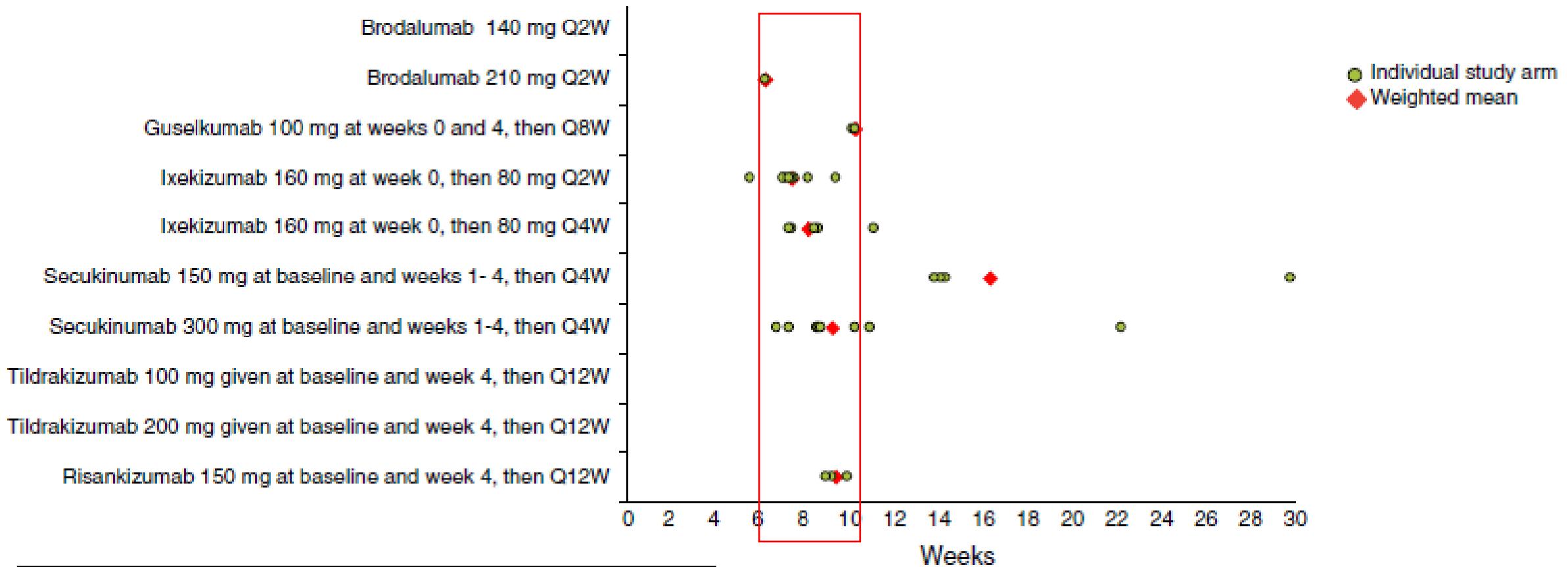
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Dermatology Update  
Roma, 1-2 Dicembre 2023

YES or  
NO

CONTEST  
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# Systematic review on rapidity of onset of action for interleukin-17 and interleukin-23 inhibitors for psoriasis



Time until 50% of patients achieve PASI90

JEADV 2020, 34, 39–46



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Roma, 1-2 Dicembre 2023

YES or  
NO

CONTEST  
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# Il punto di vista del paziente



## Global report on **PSORIASIS**

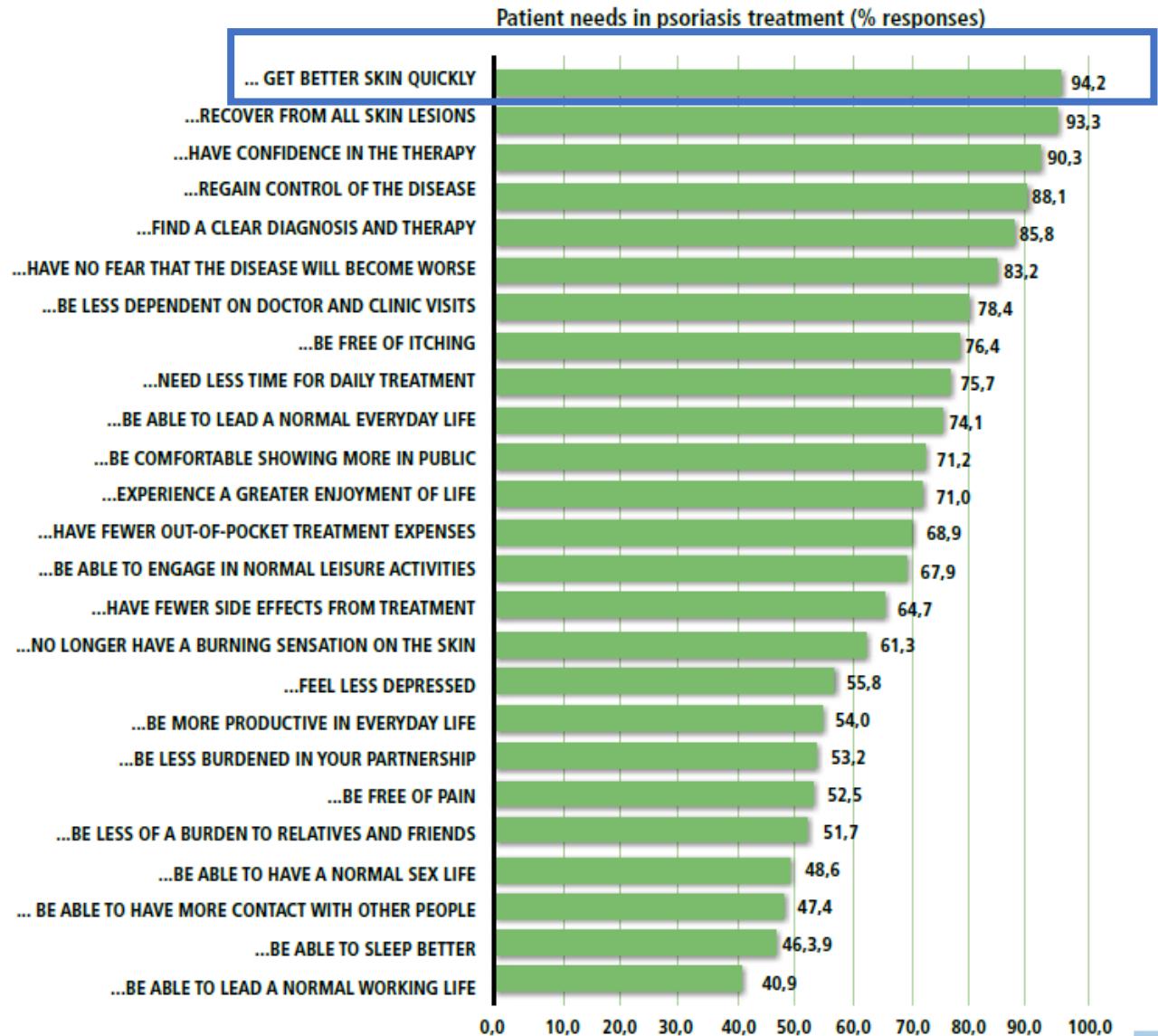


World Health  
Organization



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# La terapia della psoriasi?



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Roma, 1-2 Dicembre 2023

YES / NO

CONTEST  
3° INCONTRO

# Psoriasis

- Definizione: Malattia infiammatoria della cute con **decorso cronico-recidivante**, nella quale fasi di esacerbazione si alternano a fasi di remissione di durata variabile.



Database con >1000 pazienti affetti da psoriasis  
Durata media di malattia: 22,4 anni



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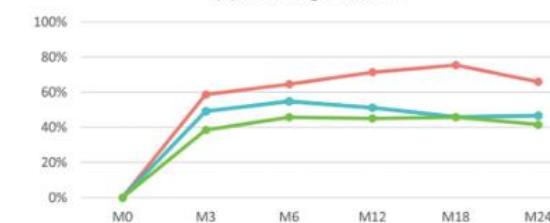
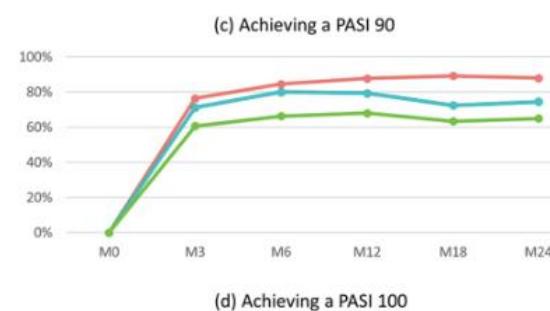
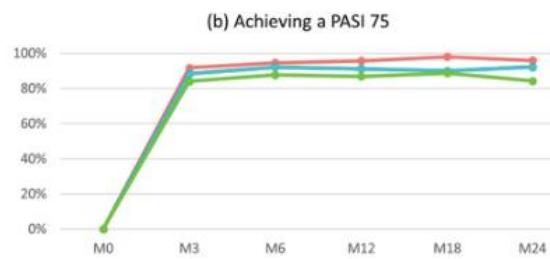
YES or  
NO

CONTEST  
3° INCONTRO



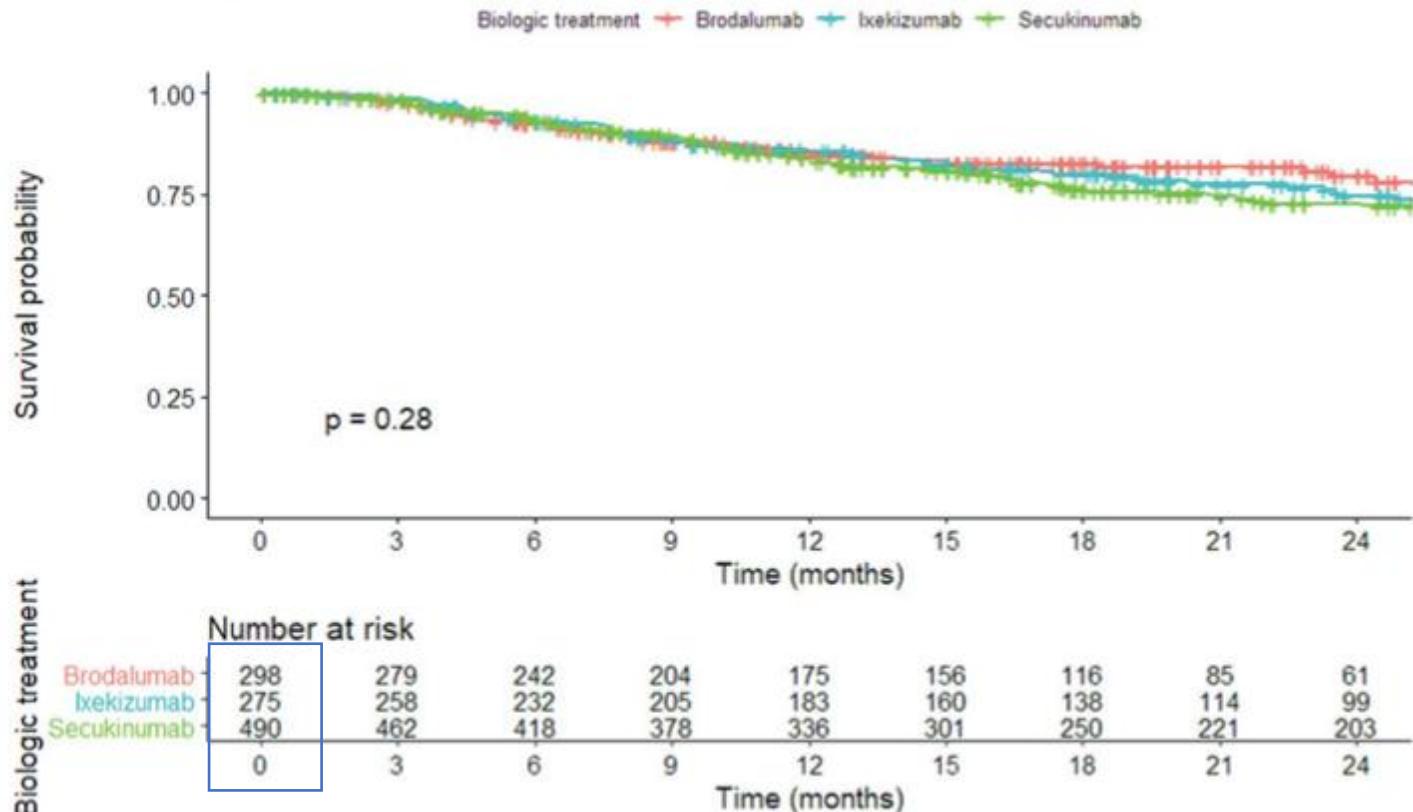
**Efficacy, safety, and drug survival of patients with psoriasis treated with IL-17 inhibitors – brodalumab, ixekizumab, and secukinumab: real-world data from the Czech Republic BIOPREP registry**

Martina Kojanova, Jan Hugo, Barbora Velackova, Petra Cetkovska, Jorga Fialova, Tomas Dolezal, Martin Tichy & Spyridon Gkalmakiotis behalf of the BIOPREP study group



er.it/yon

(c) Time to discontinuation of treatment by biologics



- La risposta alla terapia con brodalumab è sostenuta anche nel lungo termine con tassi di risposta PASI 100 marcatamente superiori rispetto a secukinumab ed ixekizumab
- Drug survival del farmaco in linea con gli altri farmaci anti-IL-17



ORIGINAL RESEARCH

306 pazienti

## Real-life experience with ixekizumab in plaque psoriasis: a multi-center, retrospective, 3-year study

Giacomo Caldarola <sup>1,2</sup>, A Chiricozzi <sup>1,2</sup>, M Megna <sup>1,2</sup>, P Dapavo <sup>3</sup>, A Giunta <sup>4</sup>, M Burlando <sup>5</sup>, P Malagoli <sup>6</sup>, V Dini <sup>7</sup>, M Mariani <sup>1,2</sup>, G Fabbrocini <sup>1,2</sup>, P Quaglino <sup>8</sup>, L Bianchi <sup>1,2</sup>, A Parodi <sup>9</sup>, K Peris <sup>1,2</sup> and C De Simone <sup>1,2</sup>

<sup>1</sup>Section of Dermatology, Dipartimento Universitario di Medicina e Chirurgia Traslazionale, Università Cattolica del Sacro Cuore, Rome, Italy;

<sup>2</sup>Dermatology Unit, Dipartimento di Scienze Mediche e Chirurgiche, Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy;

<sup>3</sup>Department of Clinical Medicine and Surgery, University of Naples Federico II, Naples, Italy; <sup>4</sup>Department of Biomedical Science and Human Oncology, Second Dermatologic Clinic, University of Turin, Turin, Italy; <sup>5</sup>Department of Dermatology, University of Rome Tor Vergata, Rome, Italy;

<sup>6</sup>Section of Dermatology, Di.S.Sal. Department of Health Science, San Martino Polyclinic Hospital, University of Genoa, Genoa, Italy; <sup>7</sup>Dermatology Unit, Azienda Ospedaliera San Donato Milanese, Milan, Italy; <sup>8</sup>Dermatology Unit, Department of Clinical and Experimental Medicine, University of Pisa, Pisa, Italy; <sup>9</sup>Section of Hygiene, University Department of Health Sciences and Public Health, Rome, Italy

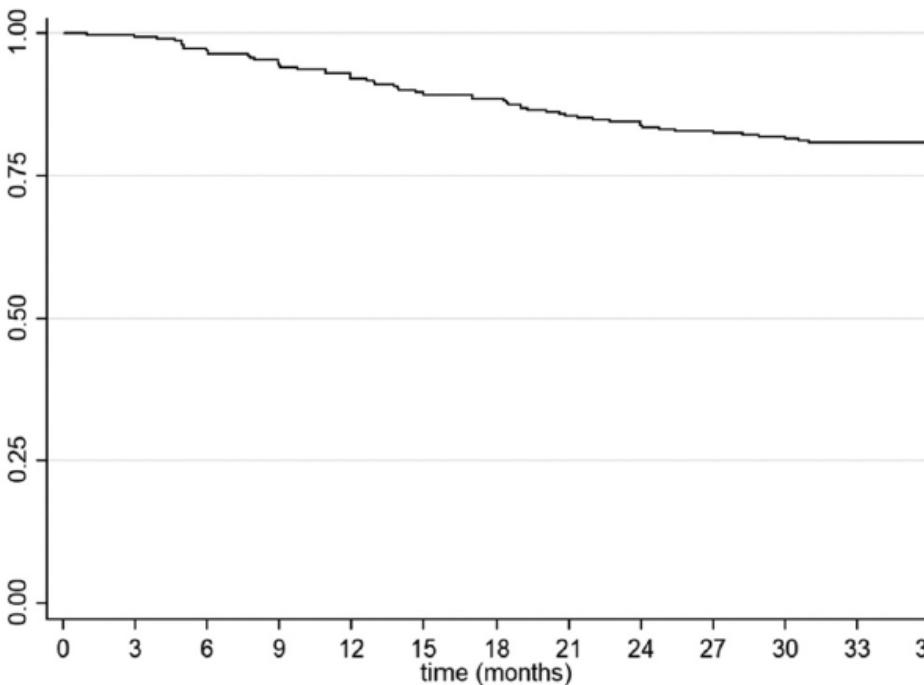


Figure 1. Kaplan Meier survival curve for any cause of ixekizumab discontinuation.

Table 4. Cox regression analysis evaluating predictive factors of drug survival for any reason of discontinuation.

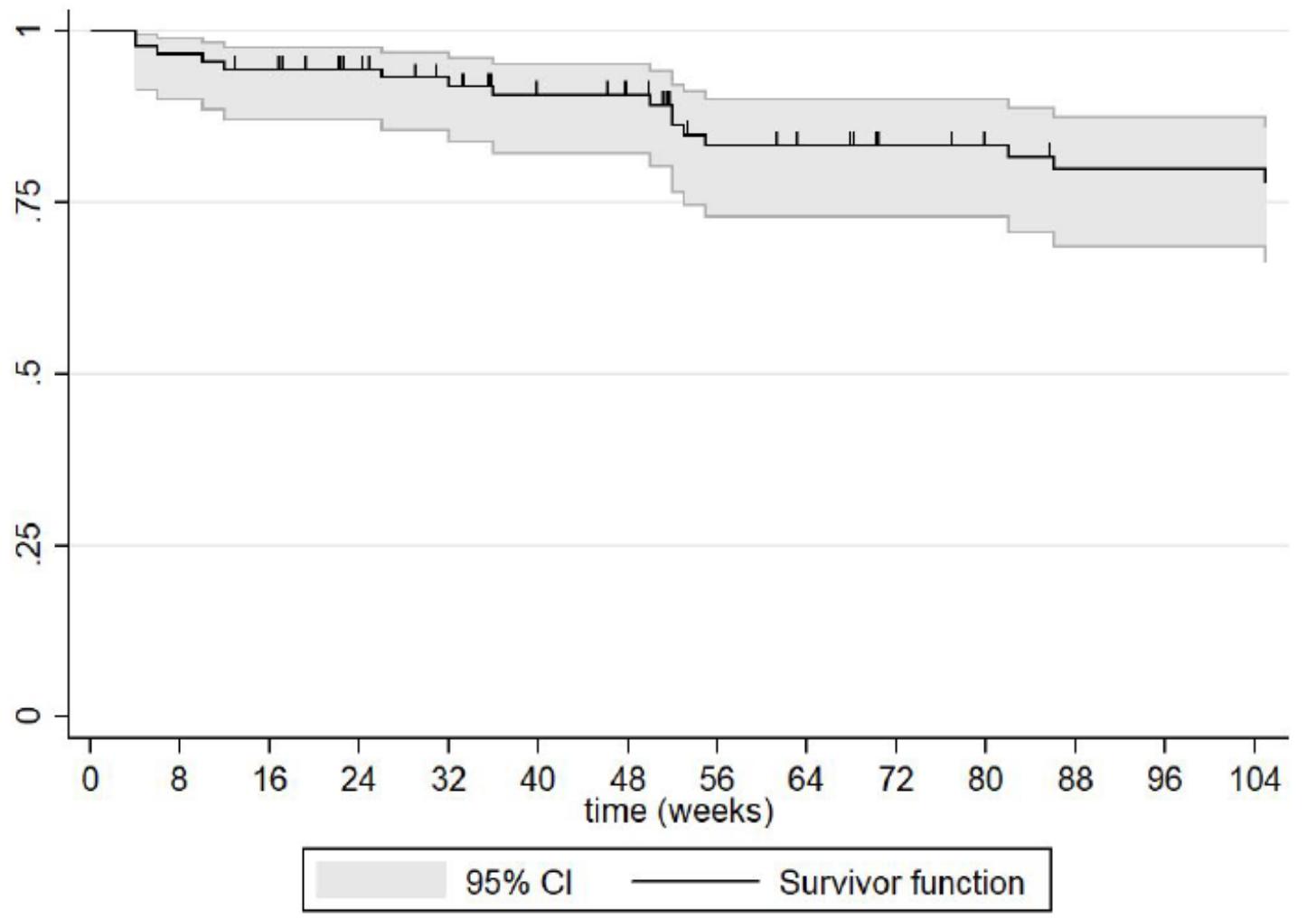
Characteristics		HR (95% CI)	p-value
Age		1,01 (0,99–1,03)	0,348
Gender	Male	Ref	0,641
	Female	0,88 (0,52–1,50)	
BMI		1,03 (0,99–1,08)	0,175
Arthropathy	No	Ref	0,807
	Yes	1,07 (0,63–1,81)	
PASI at baseline		1,00 (0,97–1,03)	0,999
Previous biological drug	No	Ref	0,056
	Yes	1,72 (0,99–2,99)	

Abbreviations: BMI: body mass index; HR: hazard ratio; CI: confidence interval; Ref: reference value.

Table 3. Survival fraction for any reason of ixekizumab discontinuation (expressed in % CI95% inf and sup).

Reasons of discontinuation	1 year	2 years	3 years
All reasons	92.11 (88.46–94.64)	83.85 (79.20–87.54)	80.19 (75.23–84.25)
Ineffectiveness	95.60 (92.54–97.42)	93.13 (89.56–95.52)	92.37 (88.64–94.91)
Adverse events	96.35 (93.51–97.96)	90.04(85.97–92.97)	86.82(82.33–90.23)

# Long-Term Effectiveness of Brodalumab for the Treatment of Moderate-to-Severe Psoriasis: A Real-Life Multi-Center Study up to 3 Years in Lazio region, Italy



90 pazienti

- In detail, after 52 and 104 weeks, 86.32% and 78.09% of patients, respectively, were still receiving brodalumab.
- These results demonstrated a favorable drug survival rate, with a significant proportion of patients remaining on the treatment throughout the observation period.



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Dermatology Update  
Roma, 1-2 Dicembre 2023

YES or  
NO

CONTEST  
3° INCONTRO

# Caso 4 - Paola

F, 56 aa

## Comorbidità

- nessuna

## Precedenti terapie

- 2 cicli di ciclosporina con rapide recidive alla sospensione del farmaco
- un ciclo di MTX sospeso a settembre 2019 per scarso beneficio.



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NO

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# Caso 4 - Paola



PASI = 20

DLQI = 21



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Roma, 1-2 Dicembre 2023

YES or  
NO

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# Caso 4 - Paola



Screening per inizio  
terapia con farmaco  
biologico

PASI = 20

DLQI = 21



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Roma, 1-2 Dicembre 2023

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NO**

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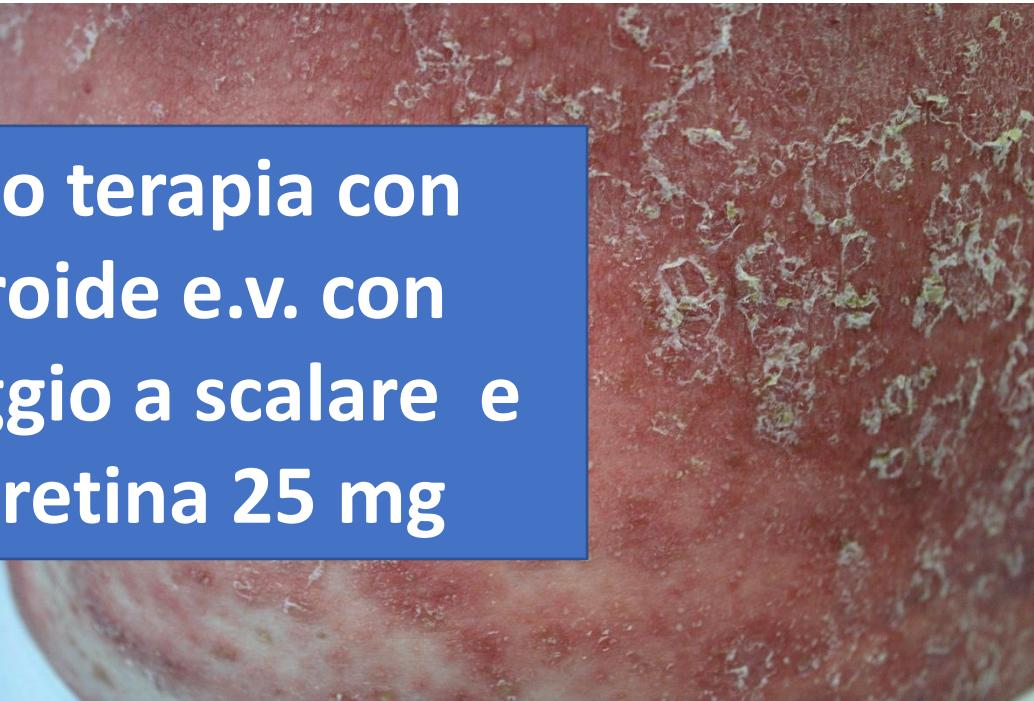
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Roma, 1-2 Dicembre 2023

**YES or  
NO**

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# Caso 4 - Paola



Inizio terapia con  
steroide e.v. con  
dosaggio a scalare e  
acitretina 25 mg



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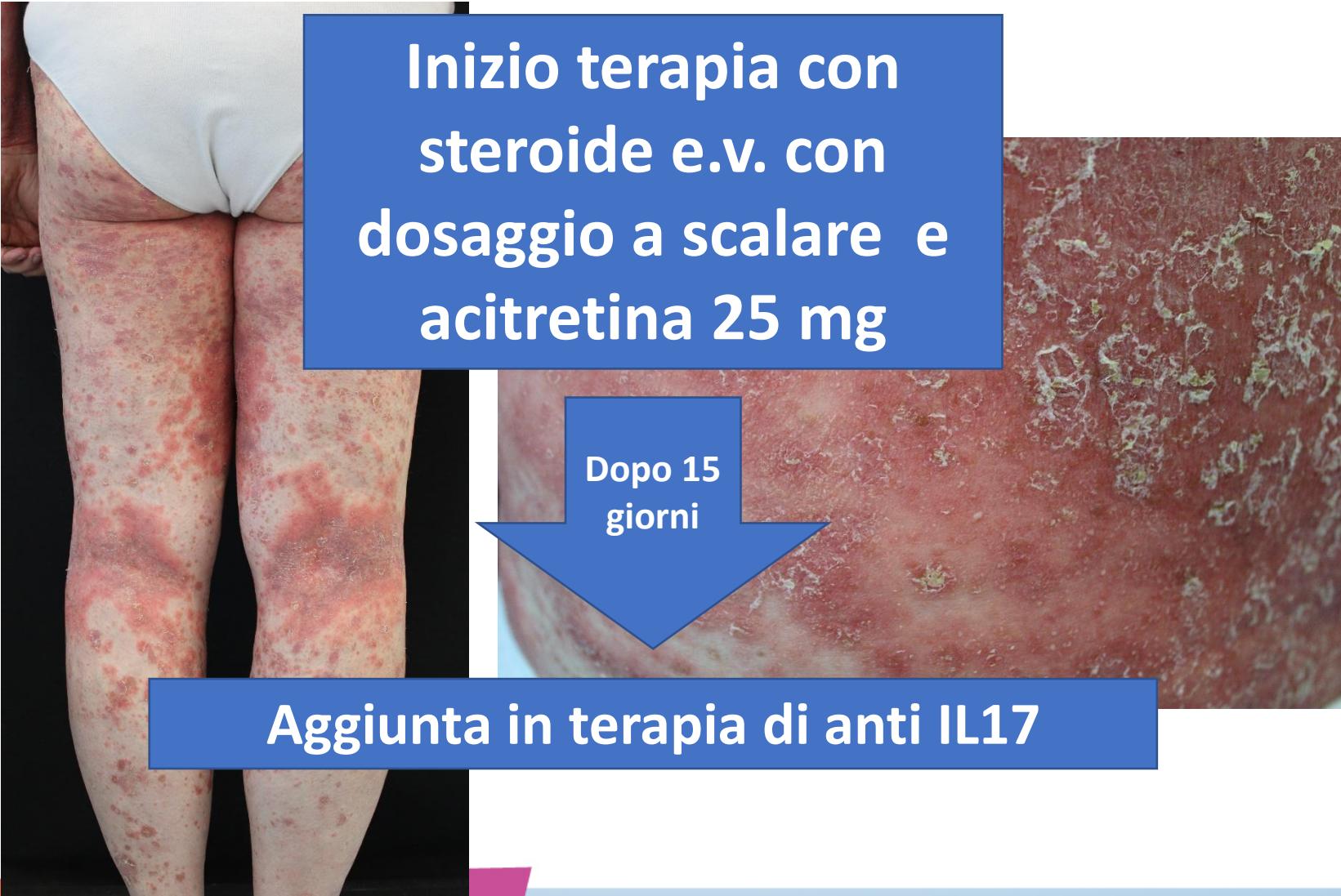
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Roma, 1-2 Dicembre 2023

YES *or* NO

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YES or  
NO

CONTEST  
3° INCONTRO

# Caso 4 - Paola

**Week 4**



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YES <sup>or</sup> NO  
CONTEST  
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# Caso 4 - Paola

**Week 4**



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BEST PRACTICE, SPECIAL  
Roma, 1-2 Dicembre 2023

YES or  
NO

CONTEST  
3° INCONTRO

# Caso 4 - Paola

**Week 12**



**PER RISPONDI**

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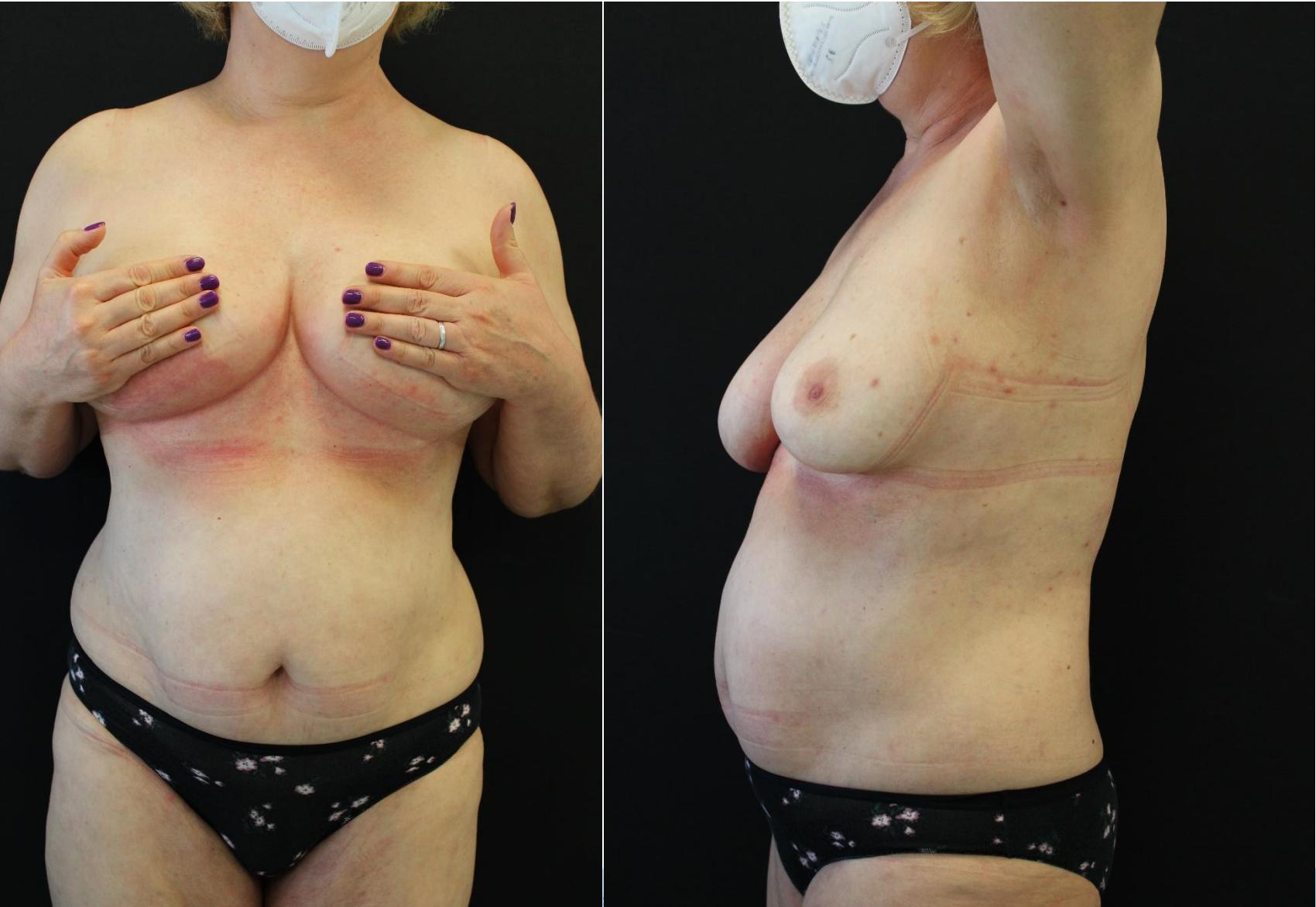
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SERGIO ORTIMENTI

ROMA, 1-2 DICEMBRE 2023

**ES or  
NO**  
**CONTEST**  
**3° INCONTRO**

# Caso 4 - Paola

**Week 12**



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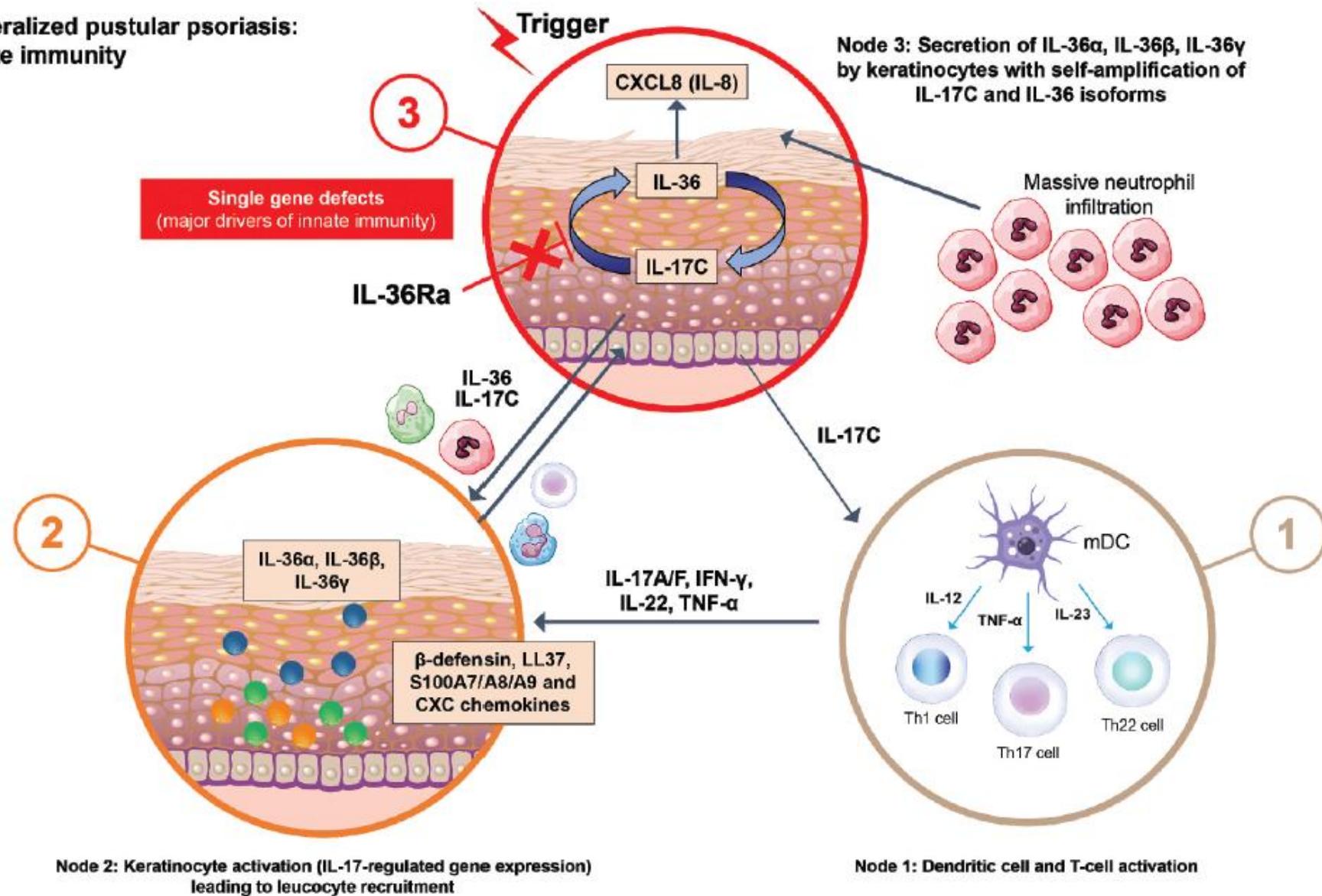


SERGIO CHIMENTI

Roma, 1-2 Dicembre 2023

or  
 NO  
CONTEST  
3° INCONTRO

**Generalized pustular psoriasis:**  
Innate immunity



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# Caso 5 - Mirela

- 50 anni
- BMI 27,8
- In anamnesi, morbo di Basedow ed emorragia subaracnoidea nel 2021.
- Paziente affetta da psoriasi in placche e artrite psoriasica dal 2010



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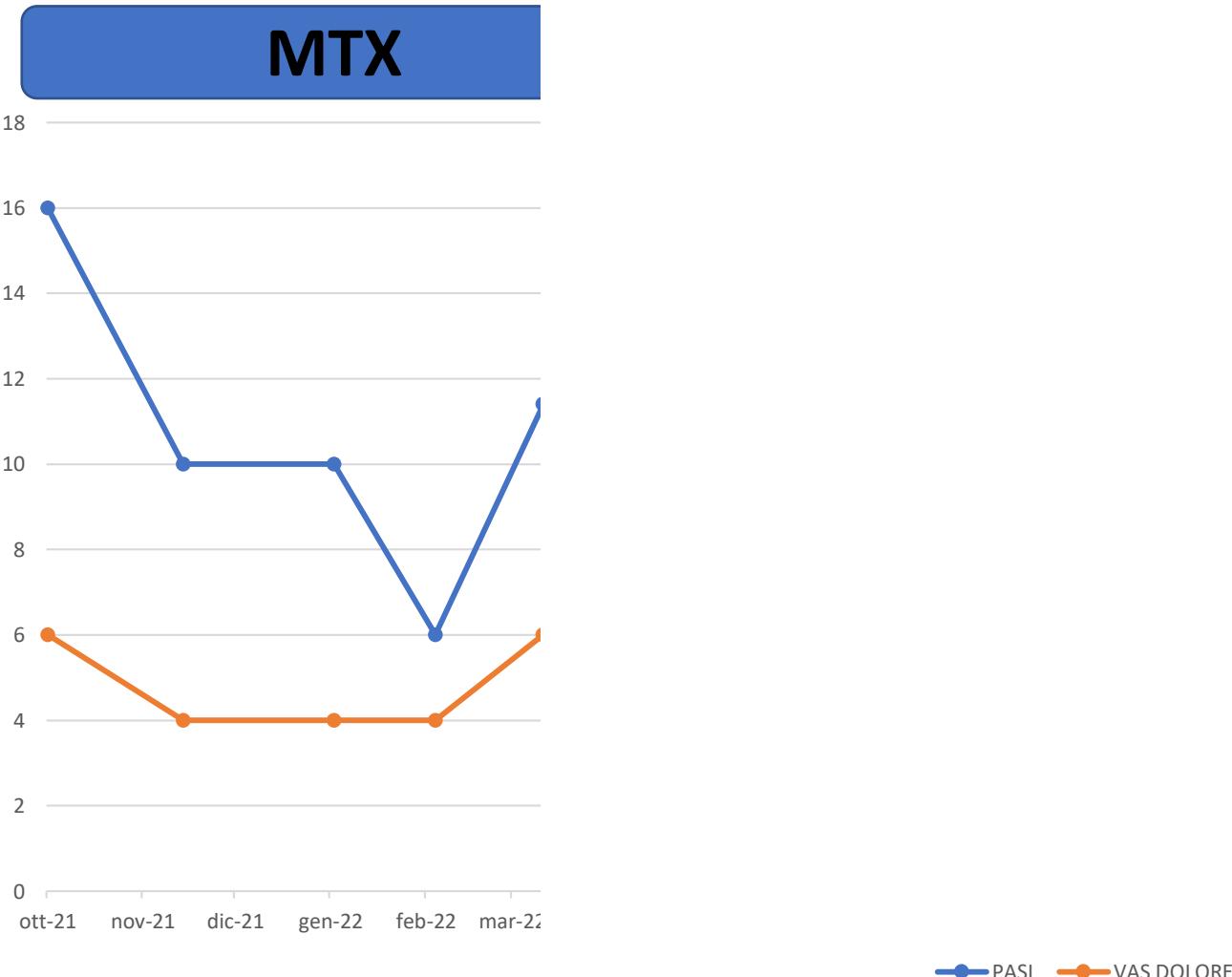
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Dermatology Update  
Roma, 1-2 Dicembre 2023

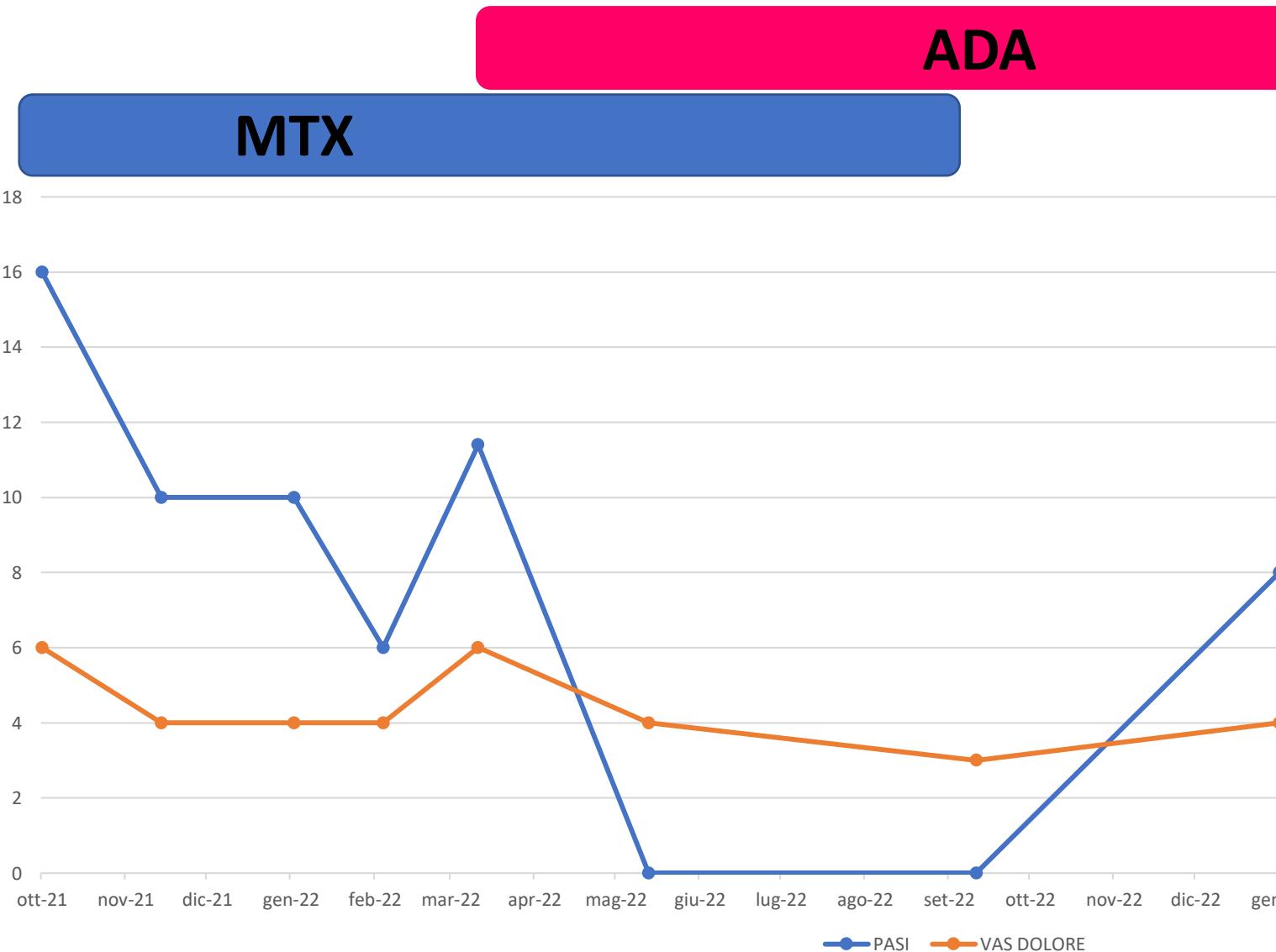
YES or  
NO

CONTEST  
3° INCONTRO

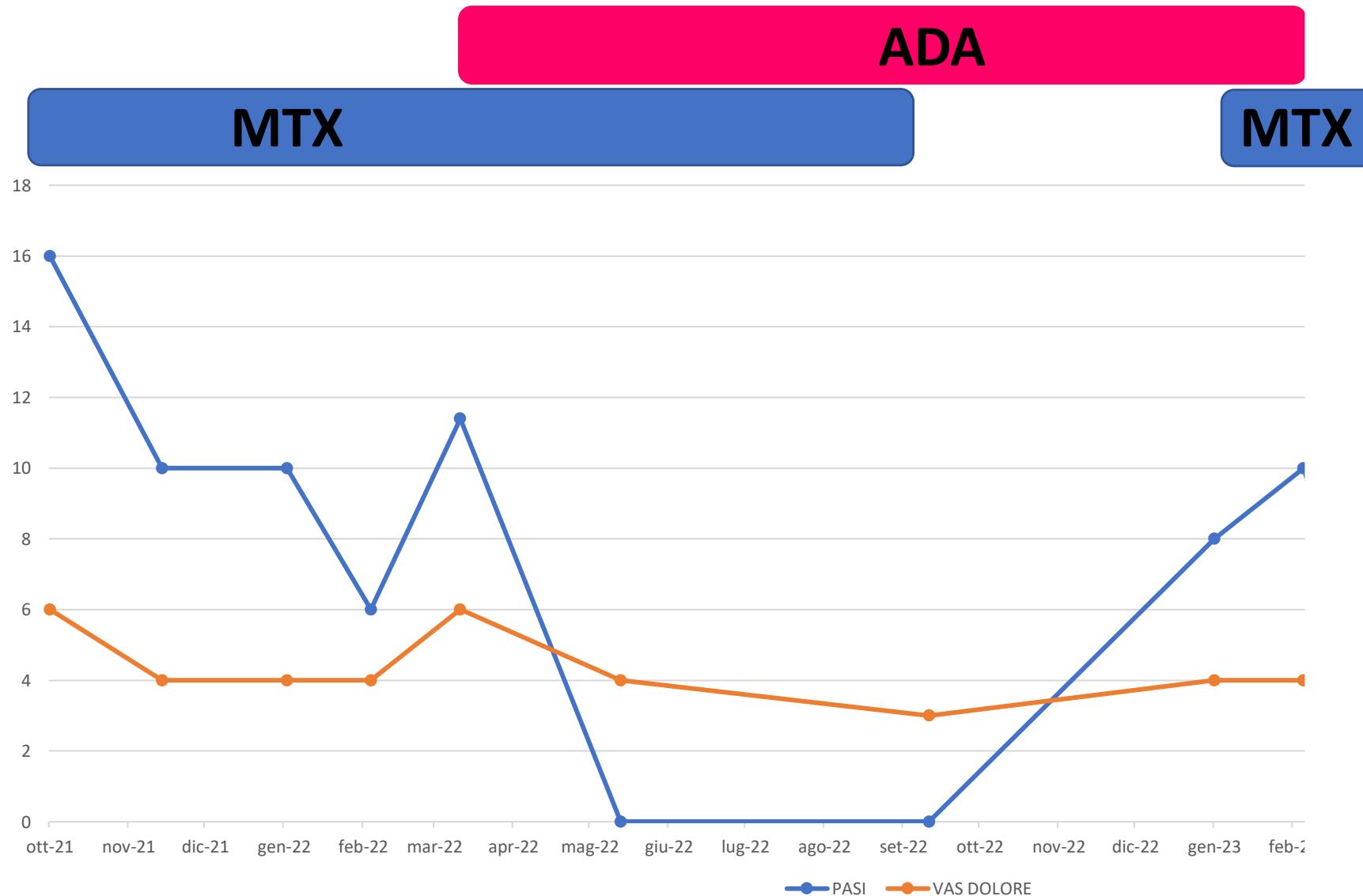
# Caso 5 - Mirela



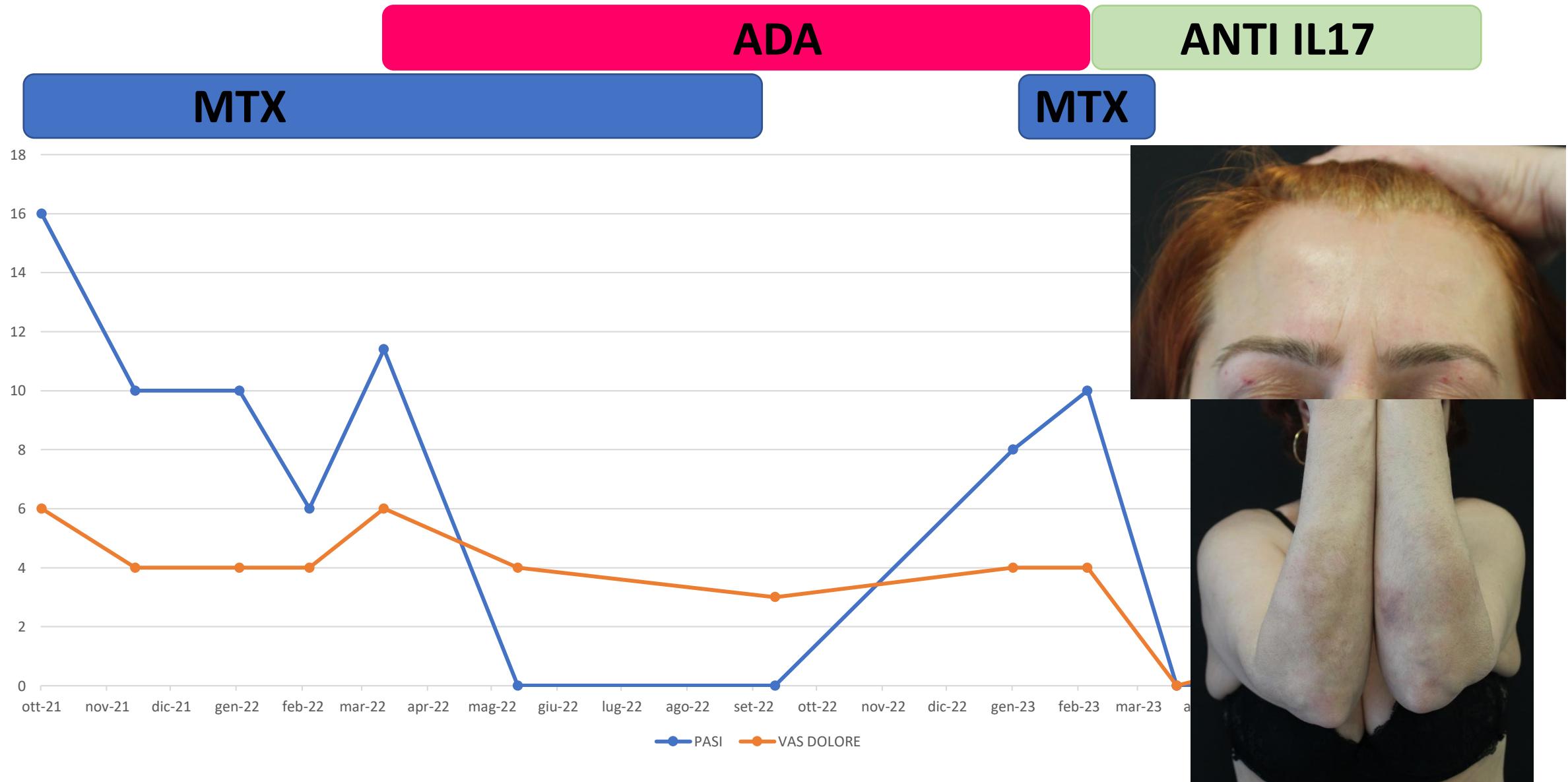
# Caso 5 - Mirela



# Caso 5 - Mirela

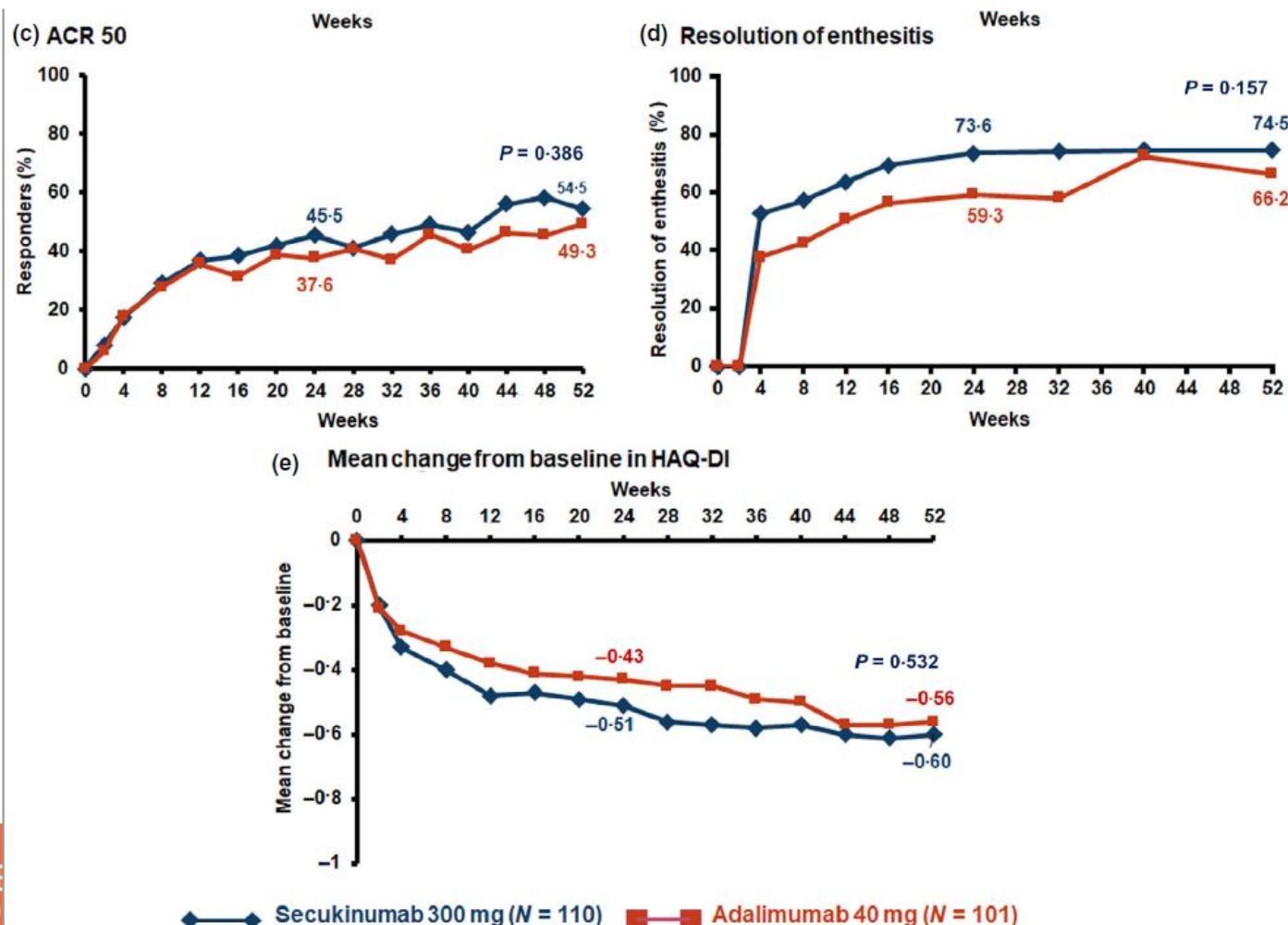


# Caso 5 - Mirela



# Efficacy of secukinumab and adalimumab in patients with psoriatic arthritis and concomitant moderate-to-severe plaque psoriasis: results from EXCEED, a randomized, double-blind head-to-head monotherapy study

A.B. Gottlieb,<sup>1</sup> J.F. Merola,<sup>2</sup> K. Reich ,<sup>3</sup> F. Behrens,<sup>4</sup> P. Nash,<sup>5</sup> C.E.M. Griffiths ,<sup>6</sup> W. Bao,<sup>7</sup> P. Pellet,<sup>8</sup> L. Pricop<sup>7</sup> and I.B. McInnes<sup>9</sup>



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# Multicenter, Randomized, Open-Label, Parallel-Group Study Evaluating the Efficacy and Safety of Ixekizumab Versus Adalimumab in Patients With Psoriatic Arthritis Who Are Biologic Disease-Modifying Antirheumatic Drug-Naïve: Final Results by Week 52

Josef S. Smolen<sup>1</sup>, Philip Mease<sup>2</sup>, Hasan Tahir<sup>3</sup>, Hendrik Schulze-Koops<sup>4</sup>, Inmaculada de la Torre<sup>5</sup>, Lingnan Li<sup>5</sup>, Maja Hojnik<sup>5</sup>, Christophe Sapin<sup>5</sup>, Masato Okada<sup>6</sup>, Roberto Caporali<sup>7</sup>, Jordi Gratacos<sup>8</sup>, Philippe Goupille<sup>9</sup>, Soyi Liu-Leage<sup>5</sup>, Sreekumar Pillai<sup>5</sup>, Peter Nash<sup>10</sup>

<sup>1</sup>Medical University of Vienna, Vienna, Austria; <sup>2</sup>Swedish Medical Center/Providence St. Joseph Health and University of Washington, Seattle, WA, United States of America; <sup>3</sup>Royal Free London NHS Trust, London, United Kingdom; <sup>4</sup>Division of Rheumatology and Clinical Immunology, Department of Internal Medicine IV, Ludwig Maximilians University of Munich, Munich, Germany; <sup>5</sup>Eli Lilly and Company, Indianapolis, IN, United States of America; <sup>6</sup>St. Luke's International Hospital, Tokyo, Japan; <sup>7</sup>Department of Clinical Sciences and Community Health, University of Milan, G. Pini Hospital, Milan, Italy; <sup>8</sup>Rheumatology Department, Hospital de Sabadell, Institut Universitari Parc Taulí, Universitat Autònoma de Barcelona, Sabadell, Barcelona, Spain; <sup>9</sup>Department of Rheumatology and CIC-INserm 1415, Tours University Hospital; EA 7501, University of Tours, Tours, France; <sup>10</sup>School of Medicine, Griffith University, Brisbane, QLD, Australia.

Smolen JS, et al. *Ann Rheum Dis.* 2020; doi:10.1136/annrheumdis-2020-217372 (Ahead of print).



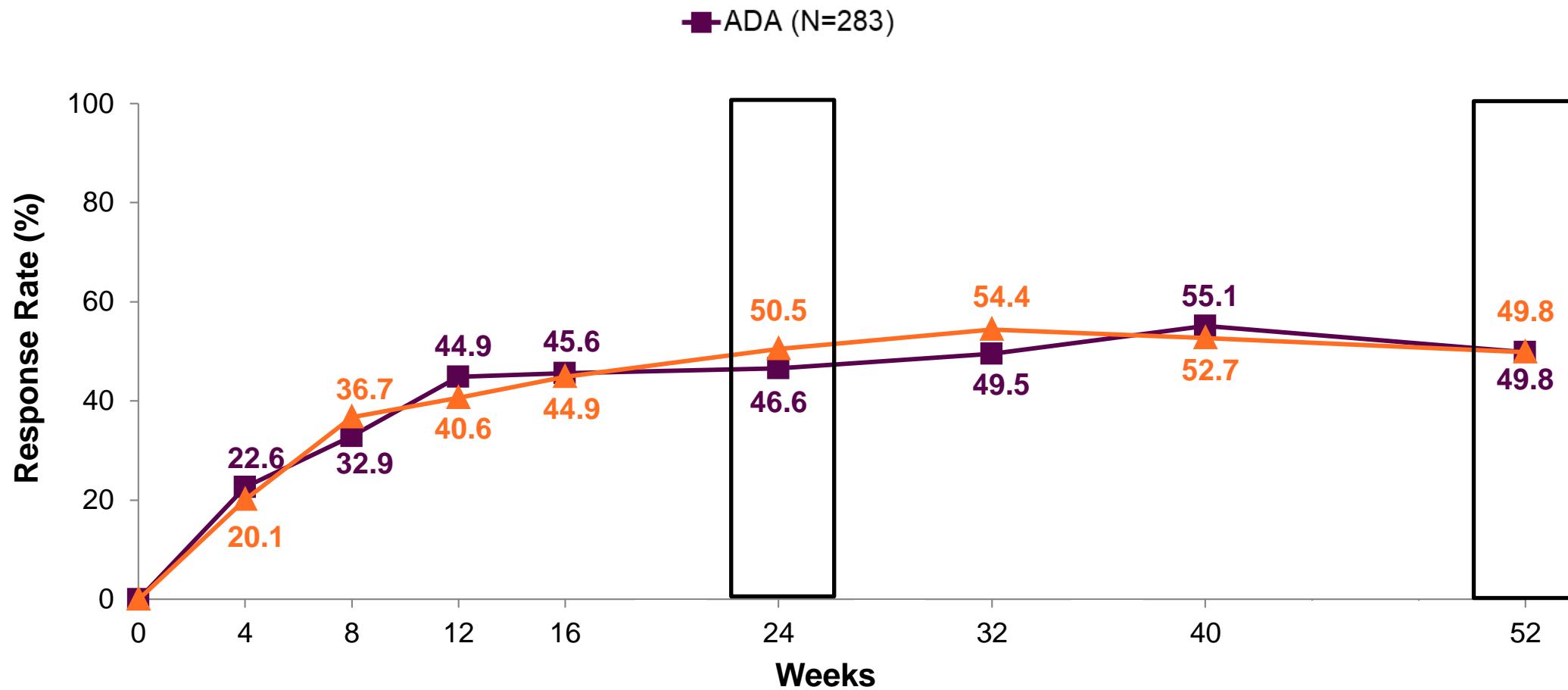
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**Dermat**  
Roma, 1

# ACR50 Response by Treatment Week, NRI ITT Population (SPIRIT-H2H)



Smolen JS, et al. Ann Rheum Dis. 2020; doi:10.1136/annrheumdis-2020-217372 (Ahead of print).



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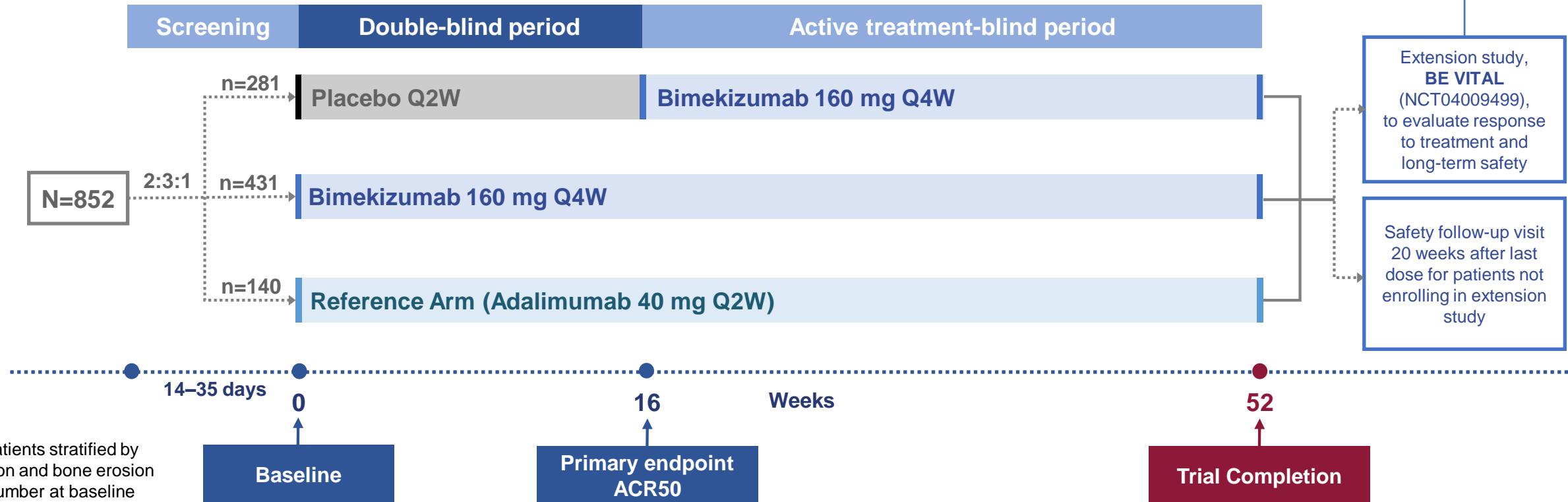
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Roma, 1-2 Dicembre 2023

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# BE OPTIMAL Study Design

Patients completing week 52 and meeting eligibility criteria could be enrolled in an **open-label extension study, receiving sc BKZ 160 mg Q4w** regardless of previous treatment



## Key inclusion criteria

- ≥18 years of age with adult-onset PsA fulfilling CASPAR criteria with a duration of ≥6 months
- TJC ≥3/68 and SJC ≥3/66
- ≥1 active psoriatic lesions and/or a documented history of PSO

## Key exclusion criteria

- Current or prior exposure to any biologics for treatment of PsA or PSO
- Active, symptomatic IBD at baseline or screening (prior history was not an exclusion criterion)



Mühnes IB, et al., Lancet 2023;401:25-37

BKZ-treated patients were eligible to receive rescue therapy from Week 16 at the discretion of the investigator, while continuing to receive BKZ. ACR: American College of Rheumatology response criteria; BKZ: bimekizumab; CASPAR: Classification Criteria for Psoriatic Arthritis; IBD: inflammatory bowel disease; PsA: psoriatic arthritis; PSO: psoriasis; Q2W: every 2 weeks; Q4W: every 4 weeks; SJC: swollen joint count; TJC: tender joint count.

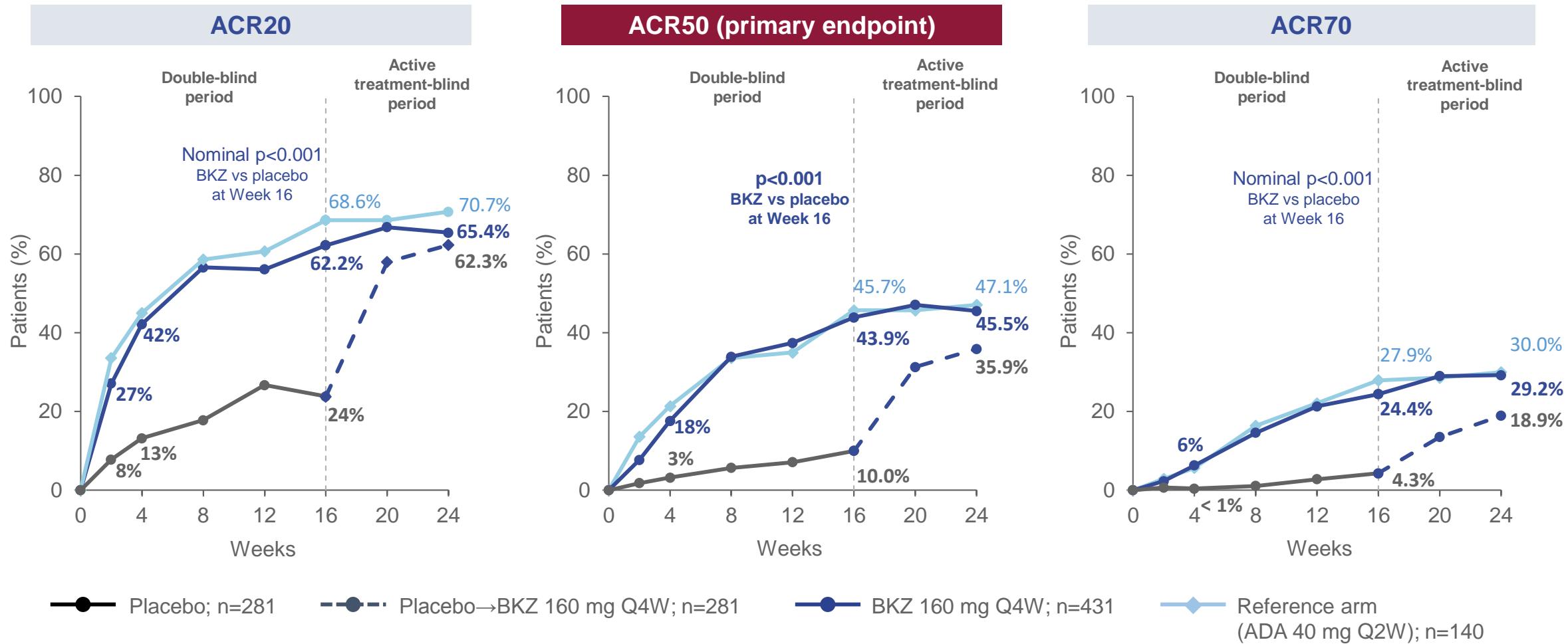
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# Efficacy: ACR Response Criteria to Week 24 (NRI)

## BKZ demonstrated improvements vs placebo in achievement of ACR response criteria at Week 16



\* Randomised set. p values BKZ vs placebo were obtained from logistic regression with treatment, bone erosion at baseline and region as factors. Nominal p values were not adjusted for multiplicity. The study was not powered for statistical comparisons of adalimumab to bimekizumab or adalimumab to placebo. ACR20/50/70: ≥20/50/70% improvement in American College of Rheumatology criteria; ADA: adalimumab; McInnes IB, et al., Lancet 2023;401:25-37.

BKZ: bimekizumab; NRI: non-responder imputation; Q2W: every 2 weeks; Q4W: every 4 weeks.



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**Table 1** Biologic therapy algorithm for selecting a psoriasis treatment in individuals with comorbidities or in special populations, based on a review of the current literature

Biologic therapy	Psoriatic arthritis	Multiple sclerosis	Congestive heart failure	Inflammatory bowel disease <sup>a</sup>	Hepatitis B	Latent tuberculosis <sup>b</sup>	Pediatric psoriasis	Childbearing and nursing potential <sup>c</sup>	NMSC and lymphoma	COVID-19
TNF inhibitors										
Adalimumab	First line	Avoid	Avoid <sup>d</sup>	First line (CD and UC)	Third line	Second line	Fourth line (EU: age > 4)	Third line	Third line (NMSC) Avoid (lymphoma)	Second line
Etanercept	First line	Avoid	Avoid <sup>d</sup>	Fourth line	Third line	Second line	Third line (age > 4)	Third line	Third line (NMSC) Avoid (lymphoma)	Second line
Infliximab	First line	Avoid	Avoid <sup>d</sup>	First line (CD and UC)	Third line	Second line	NA	Third line	Third line (NMSC) Avoid (lymphoma)	Second line
Certolizumab pegol	First line	Avoid	Avoid <sup>d</sup>	Second line (CD)	Third line	Second line	NA	First line	Third line (NMSC) Avoid (lymphoma)	Second line
IL-17 inhibitors										
Ixekizumab	First line	First line	First line	Avoid	First line	First line	Second line (age > 6)	Fourth line	Second line	Third line
Secukinumab	First line	First line	First line	Avoid	First line	First line	NA	Second line	Second line	Third line
Brodalumab	NA	First line	First line	Avoid	First line	First line	NA	Fourth line	Second line	Third line
IL-12/23 inhibitors										
Ustekinumab	Third line	Second line	First line	Second line (CD)	Third line	Second line	First line (age > 6)	Second line	First line	First line
IL-23 inhibitors										
Guselkumab	Second line	Third line	First line	Third line	Second line	First line	NA	Fourth line	Second line	First line
Tildrakizumab	NA	Third line	First line	Third line	Second line	First line	NA	Fourth line	Second line	First line
Risankizumab	NA	Third line	First line	Third line	Second line	First line	NA	Fourth line	Second line	First line

CD Crohn's disease, COVID-19 coronavirus disease 2019, EU Europe, IL interleukin, LTBI latent tuberculosis infection, NA not applicable, NMSC nonmelanoma skin cancer, NYHA New York Heart Association, TNF tumor necrosis factor, UC ulcerative colitis



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Thatiparthi A, Martin A, Liu J, Egeberg A, Wu JJ. Biologic Treatment

Algorithms for Moderate-to-Severe Psoriasis with Comorbid Conditions and Special Populations: A Review. Am J Clin Dermatol. 2021 Apr 16:1–18.

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# Take home message



I farmaci anti IL17 hanno dimostrato negli studi registrativi e nella real life:

- elevati tassi di efficacia (in tutte le forme di psoriasis)
- rapidità d'azione e lunga durata
- sicurezza



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A large, colorful word cloud centered around the words "thank you" in various languages. The word "thank" is in red and "you" is in yellow. Other words include "danke" (blue), "gracias" (green), "merci" (orange), "teşekkür ederim" (purple), "mochchakkeram" (pink), "raibh maith agat" (brown), "dakujem" (dark green), "ngiyabonga" (red), "terima kasih" (yellow), "sukriya" (purple), "kot krap" (pink), "arigatō" (orange), "go" (light blue), "xièxie" (pink), "merci" (orange), "dank je" (green), "welalín" (orange), "barka" (pink), "marsi" (green), "vinaka" (blue), "blagodaram" (pink), "spas" (orange), "tack" (pink), "misaotra" (green), "matondo" (pink), "paldies" (green), "grazzi" (pink), "tapadħ leat" (red), "хвала" (pink), "asante manana" (blue), "obrigada" (green), "mamnun" (blue), "mukakoze" (pink), "chukkate" (green), and "teki" (pink). The background is white with a subtle grid pattern.