

Secukinumab dose optimization in adult psoriasis patients: A retrospective, multicenter case series



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Key words: dose escalation; dose optimization; psoriasis; secukinumab.

INTRODUCTION

Secukinumab is an interleukin-17A monoclonal antibody approved in 2015 in Canada and the United States for the treatment of moderate-to-severe psoriasis in adult patients.^{1,2} The current approved dosing regimen is 300 mg subcutaneous at weeks 0, 1, 2, 3, and 4, followed by monthly maintenance dosing starting at week 8.³ In clinical practice, some patients only partially respond to this dosing schedule or display disease relapse during the interim between maintenance injections. Some clinicians treat these patients by using off-label secukinumab dosing regimens, which involves increasing the frequency of maintenance dosing. There are scant data on off-label regimens for secukinumab; therefore, this case series aims to evaluate the effectiveness and safety of secukinumab dose optimization.

We performed a retrospective chart review of adult patients treated with an off-label secukinumab up-dose regimen for psoriasis at 3 dermatology clinics in Ontario, Canada. Research Ethics Board approval was obtained at Sunnybrook Health Sciences Centre in Toronto. Effectiveness after dose optimization was measured using a 75% reduction from baseline in the Psoriasis Area and Severity Index (PASI-75), or a Physician Global Assessment (PGA) score of 0 (clear) or 1 (almost clear) if PASI scores were not provided. To assess safety, adverse events (AEs) were recorded.

Abbreviations used:

AE:	adverse event
PASI:	Psoriasis Area and Severity Index
PASI-75:	75% reduction from baseline PASI score
PGA:	Physician Global Assessment

CASES

Case summaries are presented in [Table I](#).

Case 1

Case 1 was a 50-year-old woman with psoriasis on the arms, legs, and trunk. She did not achieve PASI-75 after 12 weeks of secukinumab treatment. At week 52, she had a PASI of 5.1, and her dose was optimized to 300 mg every 3 weeks. Complete clearance was achieved 12 weeks following optimization. No AEs were reported throughout treatment.

Case 2

Case 2 was a 60-year-old man with a baseline PASI of 11.4, with psoriasis affecting the arms, legs, trunk, and scalp. Despite achieving PASI-75 at week 12, his disease relapsed at week 52, and his dose was optimized to 300 mg every 3 weeks. PASI-75 (PASI 1.2) was achieved after 12 weeks. No AEs were reported throughout treatment.

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Funding sources: None.

Conflicts of interest: Dr Yeung has been a speaker, consultant, and investigator for AbbVie, Allergan, Amgen, Astellas, Boehringer Ingelheim, Celgene, Centocor, Coherus, Dermira, Eli Lilly, Forward, Galderma, Janssen, Leo, Medimmune, Merck, Novartis, Pfizer, Regeneron, and Takeda. Ms Phung, Mr Georgakopoulos,

Mr Ighani, and Dr Giroux have no conflicts of interest to declare.

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JAAD Case Reports 2018;4:310-3.

2352-5126

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<https://doi.org/10.1016/j.jcdr.2017.11.006>

Table I. Case demographics and clinical features before and after secukinumab dosage optimization

Case	Sex	Age, y	Weight, kg	Previously failed biologics	Approved dosing regimen				Optimized dosing regimen				Concomitant systemic medications
					Baseline score	Follow-up week; score	PASI-75 achieved	Treatment duration, weeks	Scores before optimized regimen	Dosing regimen	Follow-up week; score	PASI-75 achieved	
1	F	50	79.0	Adalimumab	PASI 10.8	12; PASI 2.8	N	52	PASI 5.1	300 mg q3w	12; PASI 0	Y	None
2	M	60	96.0	Adalimumab	PASI 11.4	12; PASI 2.4	Y	52	PASI 6.8	300 mg q3w	12; PASI 1.2	Y	None
3	M	34	89.0	None	PASI 10.6	12; PASI 0.6	Y	35	PASI 5.2	300 mg q3w	12; PASI 1.2	Y	None
4	F	68	49.0	Etanercept, ustekinumab	PASI 14.6	12; PASI 7.9	N	12	PASI 7.9	300 mg q3w	12; PASI 1.6	Y	None
5	F	52	77.0	Efalizumab, adalimumab, etanercept, infliximab, ustekinumab	PASI 14.5	12; PGA 1	NA	65	NA	300 mg q2w	12; PGA 1	NA	Methotrexate
6	M	52	62.0	Etanercept	PASI 13.5	12; PGA 0	NA	65	NA	300 mg q2w	12; PGA 0	NA	None
7	M	63	109.1	Ustekinumab	PGA 3	5; improved	NA	26	PGA 3	300 mg/w for 2 weeks, then q3w thereafter	30.5; PGA 3	NA	Allitretinoin
8	M	66	NA	Alefacept, etanercept, adalimumab, ustekinumab	NA	12; PGA 4	NA	48	PGA 4	300 mg q3w	12; PGA 3	NA	Apremilast
9	M	66	NA	Adalimumab	PGA 4	26; PGA 3	NA	52	PGA 2	300 mg q3w	8; PGA 1	NA	None
10	F	38	NA	Ustekinumab, adalimumab	NA	26; improved	NA	30.5	PGA 4	300 mg q2w	22; PGA 1	NA	Methotrexate
11	M	18	NA	None	NA	12; PGA 0	NA	12	PGA 0	300 mg q2w	17; PGA 0	NA	None
12	M	60	90.9	Ustekinumab, adalimumab	PGA 2	12; PGA 2	NA	82.5	PGA 2	300 mg q3w	12; PGA 2	NA	None
13	F	53	NA	Etanercept, ustekinumab, adalimumab	PGA 0	NA	NA	35	PGA 2	300 mg q2w	12; PGA 0	NA	None
Mean		52.3	81.5 (n = 8)					43.6	PASI 6.25 (n = 4)				

N, No; NA, data not available; PASI, Psoriasis Area and Severity Index; PASI-75, 75% reduction from baseline PASI score; PGA, Physician Global Assessment; q2w, every 2 weeks; q3w, every 3 weeks; Y, yes.

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