

Co-Management of Specialty Medications by a Dermatologist and Pharmacist: A Pilot Study Sarah L. Spaulding, BS¹; Martin D. Slade, PhD, MPH²; Kimhuoy Tong, PharmD³; Natasha Stroedecke, PharmD³;

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Background and Rationale

- Therapeutic advances have transformed treatment of many dermatologic conditions but have also increased monitoring administrative burden.¹
- Research suggests that collaborations between dermatolog and pharmacists that comprehensively comanage patients specialty medication can reduce time to first prescription fill increase the likelihood of medication approval.²⁻⁴
- This study examines the impacts of such a program for a single study examines the impacts of such a program for a single study examines the impacts of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a program for a single study examines the impact of such a single study examines the impact of such a single study examines the such a single study e dermatologist-pharmacist dyad during its initial pilot phase.

Methods

- We conducted a retrospective cohort study of patients prescribed a specialty medication by one dermatologist bet January 2021-October 2022.
- Patients seen between November-December 2021 were excluded as the program was undergoing initial roll-out dur this time.
- Fisher's exact test was utilized to compare the percentage patients whose preferred medication was approved pre- ar post-implementation.
- Student's t-test was utilized to compare time from initial prescription to first prescription fill pre- and post-implement

Results

- 190 patients were included, with 64 pre-implementation pa and 126 post-implementation patients.
- Dupilumab and risankizumab were the most prescribed medications, comprising 53.1% of patients (Table 1).
- The percentage of patients whose preferred medication wa approved increased from 93.8% to 99.2% (p<0.05).
- The mean number of days from prescription to first fill decreased from 18.5 [95% CI: 15.0-22.8] days to 13.1 [11. 15.5] post-implementation (p<0.05) (Table 2).

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		Results				
/	Table 1. Classes of specialty medications.					
jists on a		Medication Class	Specialty Medication	Pre- Implementation (64)		
and	Oral Medications	JAK Inhibitor	Baricitinib	100.0% (1)		
ngle			Tofacitinib	30.0% (3)		
			Upadacitinib	0.0% (0)		
		PDE-4 Inhibitor	Apremilast	22.7% (5)		
twoon		IL-4Rα Inhibitor	Dupilumab	40.3% (27)		
		IL-12 & IL-23 Inhibitor	Ustekinumab	75.0% (9)		
ring		IL-13 Inhibitor	Tralokinumab -Ldrm	0.0% (0)		
nd		IL-17A Inhibitor	Ixekizumab	75.0% (3)		
	Injectable Biologics		Secukinumab	50.0% (2)		
tation.		IL-17RA Inhibitor	Brodalumab	0.0% (0)		
		IL-23 Inhibitor	Guselkumab	0.0% (0)		
atients			Risankizumab -Rzaa	14.7% (5)		
as		anti-IgE Monoclonal Antibody	Omalizumab	0.0% (0)		
		TNF-α Inhibitor	Adalimumab	50.0% (8)		
1-			Certolizumab Pegol	33.3% (1)		

TNF-α: Tumor Necrosis Factor α

Results (continued)

Table 2. First choice medication approval rates and mean days to first prescription fill.

	Pre- Implementation	Post- Implementation	р	
First Choice	N=64	N=126		
Therapy Approved [%]	93.8%	99.2%	0.0448*	
Mean Days to	N= 60	N=124		
First Fill, Mean [95% Confidence Interval]	18.5 [15.0-22.8]	13.1 [11.1-15.5]	0.0162*	

* Indicates statistically significant

Discussion

- This pilot study demonstrates that co-management of specialty medications by a dermatologist and pharmacist can increase the rate of approval of the preferred drug and decrease time for patients to start medications by nearly a week.
- This may translate to better clinical outcomes, greater patient satisfaction, and reduced overall healthcare costs.⁵
- Focus on a single dermatologist-pharmacist dyad eliminates potential confounding of individual or practice workflows.
- However, the single dyad and relatively short time period limits generalizability.
- As the program has continued to expand, research including data from multiple physicians and on impacts on clinical outcomes is needed.

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Post-				
Implementation				
(126)				
0.0% (0)				
70.0% (7)				
100.0% (3)				
77.3% (17)				
59.7% (40)				
25.0% (3)				
100.0% (2)				
25.0% (1)				
50.0% (2)				
100.0% (1)				
100.0% (8)				
85.3% (29)				
100.0% (3)				
50.0% (8)				
66.7% (2)				
kin;				

