IMPACT OF ACNE ON SOCIAL FUNCTIONING, EMOTIONAL FUNCTIONING, AND ACTIVITIES OF DAILY LIVING AMONG PATIENTS WITH MODERATE TO SEVERE NON-NODULAR ACNE VULGARIS ADMINISTERED SARECYCLINE IN REAL-WORLD COMMUNITY PRACTICES ACROSS THE U.S. (PROSES STUDY)

Richard G. Fried, 1 Evan A Rieder, 2 Andrew F. Alexis, 3 Hilary Baldwin, 4 Emmy Graber, 5 Julie C. Harper, 6 Linda Stein Gold, 7 Adelaide Hebert, 8 James Del Rosso, 9 Leon Kircik, 10 Ayman Grada, 11 Siva Narayanan, 12 Volker Koscielny, 13 Ismail Kasujee 13

1/Yardley Dermatology Associates, Morrisville, PA; 2/New York University Grossman School of Medicine, New York, NY; 3/The Dermatology Institute of Boston and Northeastern University, Boston, MA; 4/Acne Treatment and Research Center, Brooklyn, NY; ⁵Grada Dermatology Research LLC, Chesterbrook, PA; ⁶The Dermatology and Skin Care Center of Birmingham, Birmingham, AL; ⁷Weill Cornell Medical College, New York, NY; ⁸Henry Ford Health System, Bloomfield, MI; 9UTHealth McGovern Medical School, Houston, TX; 10JDR Dermatology Research/Thomas Dermatology, Las Vegas, NV; 11Icahn School of Medicine, Mount Sinai, New York, NY; 12Almirall SA, Barcelona, Spain; 13Avant Health LLC,

BACKGROUND

- · Acne Vulgaris, hereinafter referred to as acne, affects up to 50 million Americans and is the most common skin condition in the United States (US). 1
- · Acne has been shown to negatively affect QoL; resulting in low selfesteem and increased social and emotional anxiety. 2,3
- · Patients with acne report more effects of their skin condition on their functioning, emotions, and symptoms than do patients with isolated benign skin lesions or those in the normative sample. 4
- Acne has been associated with considerable psychosocial impact. causing significant negative effects on self-image, leading to feelings of isolation and loneliness, and a significantly lower self-attitude, uselessness feeling, sense of pride and self-worth, and body
- Sarecycline is a newer oral tetracycline-derived, narrow spectrum antibiotic, a first line therapy treatment for moderate to severe acne patients. Sarecycline is a viable option for acne patients to reduce disease burden, due to its safety profile and efficacy demonstrated in two identical Phase-III randomized controlled trials.6
- · Assessing PROs among patients in real-world setting is important to inform HCPs and patients to aid optimal disease management.

OBJECTIVE

 To evaluate nations-perceived impact of AV on emotional functioning. social functioning and activities of daily living (ADL), using a novel Expert Panel Questionnaire (EPQ), among Acne patients administered sarecycline in real-world community practices across the

METHODS

- · Single-arm, prospective cohort study (PROSES) was conducted with moderate to severe non-nodular acne patients ≥9 years who were prescribed sarecycline in real-world community practices in the US.
- A total of 300 subjects were enrolled from 30 community practices across the U.S.
- Study primary outcome measures included responses to EPQ items (completed by subjects (≥12 years) and caregivers (for subjects 9-11 years) at Week-12 and corresponding change from baseline (CFB)).
- · A 10-person consensus panel of eight dermatologists with expertise in the treatment of acne, one dermatologist/clinical psychologist and one dermatologist/psychiatrist was virtually convened using a three-step modified Delphi method to establish consensus on 11-item EPQ that relate to how acne impacts the patient's mood, social interactions, general thoughts/worries about acne and one's future goals, and impact on daily activities, including sleep. These recommendations were aligned with literature depicting the issues impacting acne patients.^{7,8}
- EPQ consisted of three domains; emotional functioning (EPQ) items 1-4), social functioning (EPQ items 5-7), and ADL (EPQ items 8-11).
- All EPQ items were scored on a five-point adjectival response scale (0: never, not at all; 1: slightly, rarely, a little; 2: some of the time, somewhat, 3: most of the time, moderately, quite a bit; 4: all of the time, extremely, very much).
- CFB in EPQ items was analyzed by evaluating the change in proportion of patients reporting score=0/1 (no/least impact) for EPQ items at Week-12, in comparison to baseline.

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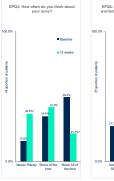
RESULTS

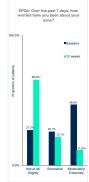
Patient's Emotional and Physical Functioning and ADL significantly improved over the 12-week sarecycline treatment period

EPQ domain: Emotional Functioning

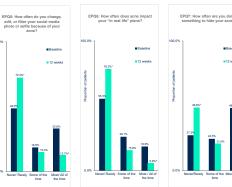




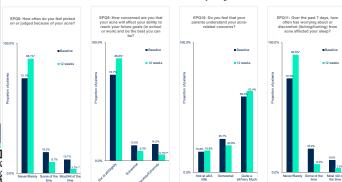




EPQ domain: Social Functioning



EPO domain: Activities of Daily Living



In comparison to baseline: *p<0.0001; ^p<0.0001; **p=0.0009; ^^p=0.0005; #p=0.0042 N=253 for all items, except for EPQ10 which corres ponded to only caregivers of pediatric patients, with N=101.

RESULTS

· 253 patients with data at week-12 were included in the final

Patient Demographics (N=253)

Patient Demographics (N=255)			
Demographic	Group	Proportion of Patients	
Age Group	Pediatric (<u><</u> 18 yrs)	39.9%	
	Adult (≥18 yrs)	60.1%	
Gender	Male	33.6%	
	Female	66.4%	
Race	White	68.4%	
	Other	15.4%	
	Black/African American	9.9%	
	Asian	7.1%	
	Prefer not to answer	3.2%	
	Native Hawaiian/Pacific Islander	1.2%	
	American Indian /Alaskan	0.8%	

CFB in proportion of patients reporting (never/rarely, not at all/slightly/a little) for EPQ items significantly improved over the 12-week sarecycline treatment period

EPQ	CFB	<i>p</i> -value
EPQ1	31.6%	<i>p</i> <0.0001
EPQ2	28.9%	<i>p</i> <0.0001
EPQ3	20.9%	<i>p</i> <0.0001
EPQ4	38.7%	<i>p</i> <0.0001
EPQ5	23.7%	<i>p</i> <0.0001
EPQ6	22.9%	<i>p</i> <0.0001
EPQ7	21.3%	<i>p</i> <0.0001
EPQ8	15.0%	p=0.0001
EPQ9	13.8%	p=0.0005
EPQ10	1.0%	p=0.8491
EPQ11	18.2%	<i>p</i> <0.0001

- Proportion of patients reporting no/least acne burden (i.e., EPQ item scores of 0/1: (never/rarely; not at all/slightly) statistically significantly (p<0.001) increased at week-12 across all measures, except EPQ10.
- Proportion of patients reporting high acne burden (i.e., EPQ item scores of 3/4: most of the time/all of the time) statistically significantly (p<0.001) decreased at week-12 across all measures, except EPQ10.

CONCLUSIONS

- Acne related burden was pronounced at baseline.
- Over the 12-week study period, patients reporting no/least acne burden increased significantly, while those reporting most/highest burden decreased significantly in emotional functioning, social functioning, and ADL domains among patients with moderate to severe acne who were administered sarecycline for 12 weeks