# PATIENT REPORTED OUTCOMES AND INVESTIGATOR GLOBAL ASSESSMENT OF ACNE VULGARIS AMONG PATIENTS WITH MODERATE TO SEVERE NON-NODULAR ACNE VULGARIS ADMINISTERED SARECYCLINE IN REAL-WORLD COMMUNITY PRACTICES ACROSS THE U.S. (PROSES STUDY)

Emmy Graber, Hilary Baldwin, Julie C. Harper, Linda Stein Gold, Ayman Grada, Andrew F. Alexis, Volker Koscielny, 12 Ismail Kasujee, 12 Leon Kircik 13

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

Patient's individual acne signs and social/emotional impact significantly improved

over the 12-week sarecycline treatment period

BACKGROUND RESULTS RESULTS

- Acne Vulgaris, hereinafter referred to as acne, affects up to 50 million Americans and is the most common skin condition in the United States
- 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 also been associated with considerable negative psychosocial impact, causing significant negative effects on self-image.
- Sarecycline is a newer oral tetracycline class of 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 patient reported outcomes (PROs) and clinical effectiveness (in terms of Investigator Global Assessment (IGA) of acne) among patients in real-world setting is important to inform HCPs and Payers to aid their clinical and reimbursement decisions, respectively.

#### **OBJECTIVE**

 To evaluate PROs in terms of self-perceived acne signs and impact of acne on emotional/social functioning, and evaluate IGA success at Week 12, among acne patients administered sarecycline, in community practices across the U.S.

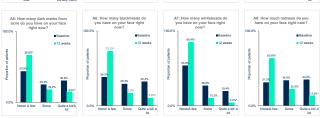
#### **METHODS**

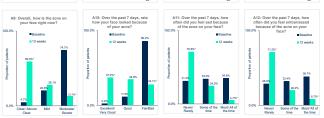
- Single-arm, prospective cohort study (PROSES) was conducted with moderate to severe non-nodular acne patients >9 years who were prescribed sarecycline in real-world community practices in the US.
- A total of 300 subjects were enrolled from 30 community practices across
- · Primary outcome measures included validated Acne Symptom and Impact Scale (ASIS) questionnaire responses (from subjects (>12 years) and caregivers (for subjects 9-11 years) at week-12 and corresponding change from baseline (CFB).
- ASIS is a 17-item validated instrument that asks natients about the signs and impact of acne on emotional and social wellbeing and is a viable tool to assess disease burden and treatment outcomes 7
- · ASIS contains Signs domain (items 1-9) and Impact domain (emotional (items 10-15) & social (items 16-17)); all items are scored on a five-point adjectival response scale (score 0-4); higher scores indicate severe symptoms or negative impact of Acne
- · Secondary outcome measure was physician-reported facial IGA collected on a five-point adjectival response scale (score 0 (clear) - 4 (severe)). IGA success was assessed as ≥2-grade improvement in IGA and a score 0 [clear] or 1 [almost clear] at week-12.
- Last observation carried forward (LOCF) imputation was considered for imputing missing data for the calculation of IGA success; however, there was no missing data at week-12, within the analytic population.
- · Physician satisfaction with sarecycline outcome at individual patientlevel was also assessed at week-12.

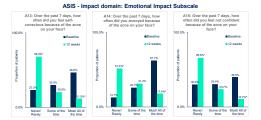
#### RESULTS

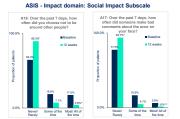
- . A total of 253 acne patients completed the study
- · Pediatric (9-17 years): 39.92%; adults (>18 years): 60.08%.
- · Male: 33.60%; Female: 66.40%.
- White: 68.39%: African-American: 9.88%: Asian: 7.11%.
- A statistically significant increase in patients with clear or almost clear acne at week-12 (baseline: 0%, week-12: 58.90%; p<0.0001). Correspondingly, IGA success was observed in majority (58.90%) of acne
- A statistically significant reduction in natients with moderate/severe acne at week-12 (baseline: 100%, week-12: 11.10%; p<0.0001).



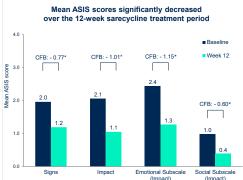








N=253 for all items. In comparison to baseline: \*p<0.0001; ^p<0.0001; \*\*\*p=0.0008; \*\*\*p=0.0001; ^^ p=0.0101.



N= 253. Impact domain includes Emotional and Social impact subscales. CFB: Change from baseline to Week-12. "P <0.0001

#### Acne severity (by IGA) decreased significantly over the 12-week sarecycline treatment period

For majority of acne patients. physicians were very satisfied or satisfied with sarecycline treatment outcomes at week-12



### CONCLUSIONS

- · Patients with moderate to severe acne using sarecycline reported a statistically significant improvement in acne symptoms, and social/emotional impact, as measured by validated ASIS questionnaire
- Majority of acne natients had significant reduction in acne severity, and majority (58 9%) had IGA success at week-12
- Overwhelming majority of physicians (88.1%) were satisfied/very satisfied with sarecycline outcomes.
- Assessing the impact of sarecycline treatment on acne patient outcomes, including patient QoL, in real-world community practice settings highlights the humanistic and clinical benefits associated this narrow-spectrum antibiotic

## REFERENCES

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