

# Azitra Announces First Patient Screened and Scheduled to Enroll in Phase 1b Trial of ATR-12 for Netherton Syndrome

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BRANFORD, Conn.--(BUSINESS WIRE)-Aug. 20, 2024—Azitra, Inc. (NYSE American: AZTR), a precision dermatology company announced that it has successfully screened the first patient in its Phase 1b clinical trial evaluating ATR-12 for the treatment of Netherion syndrome. The patient is scheduled to initiate treatment by the end of the month. The study is designed to enroil approximately 12 adult patients with twice-daily treatment for 14 days, with primary endpoints focusing on safety and tolerability, and secondary and exploratory endpoints assessing efficacy signals and biomarkers. Azitra expects to report interim safety data from the Phase 1 this ill energy 12025 with full results anticipated in the second hard 2025.

ATR-12 is Azitra's lead candidate, a proprietary strain of Staphylococcus epidermidis engineered to express therapeutic levels of an active subunit of the LEKTI protein to treat Netherton syndrome, a chronic genetic skin disease that can be life threatening.

"Errolling the first patient in our Phase 1b trial of ATR-12 will mark a significant milestone for Azitra and, more importantly, for patients suffering from Netherton syndrome, who currently have limited treatment options," said Travis Whitfill, founder and COO of Azitra. "Our recent preclinical data demonstrate ATR-12's potential to effectively deliver an active LEKTI subunit into the skin and address the underlying mechanisms of Netherton syndrome."

Mary Spellman MD, Azitra's acting CMO, added, "We are thrilled to begin this clinical trial of ATR-12 in Netherton syndrome patients. These patients suffer from poor quality of life and often debilitating disease, and this trial will inform future studies for the treatment of Netherton syndrome in pediatric patients and for longer treatment durations."

The Phase 1b trial (NCT06137157) is a multicenter, randomized, double-blind, vehicle-controlled study in approximately 12 adult patients with Netherton syndrome. Patients will be treated with 10<sup>9</sup> CFU / g twice daily with ATR-12 or its vehicle control on the contralateral side of the body twice daily for 14 days. The primary objective is to assess the safety and tolerability of topical ATR-12 application. Secondary objectives include evaluating efficacy signals (e.g., investigator and patient global assessments) and skin pharmacokinetics of the LEKTI subunit. Additional exploratory objectives include evaluating pharmacokynamic parameters, binarrikers, ant-LEKTI response, and cytokine responses.

The trial design is supported by compelling preclinical data recently presented at the American Society of Gene and Cell Therapy (ASGCT) 2024 Annual Meeting. Key findings included:

- Topical application of ATR-12 in preclinical models reduced IL-36γ by 93% compared to skin extracts induced to overexpress IL-36γ
- ATR-12 significantly reduced protease activity in skin samples compared to a Netherton syndrome model skin (p<0.01)
- ATR-12 produced higher amounts of LEKTI subunit compared to topical application of LEKTI protein alone (6.0 μg vs. 2.3 μg, respectively, p<0.01) after 24 hours and resulted in deeper skin penetration of LEKTI</li>

#### About ATR-12

ATR-12 (also known as ATR12-351) is an engineered strain of S. epidermidis that expresses an active subunit of human lympho-epithelial Kazal-type-related inhibitor (LEKTI) protein, which is missing in patients with Netherton syndrome, a chronic and sometimes fatal disease of the skin estimated to affect approximately one to nine in every 100,000. ATR-12 has been engineered to deliver missing LEKTI protein when applied topically to Netherton syndrome patients. Azita has an open IND for a Phase to clinical trial in adult patients (NCT06137157). Azitra has secured clinical sites and identified Netherton syndrome patients for enrollment in 1st 2-patient, Phase to clinical trial, which will assess safety, tolerability and express or an active subunity of the provided patients for expression and provided patients of the provided patients for expression and provided patients of the provided patients and provided patients of the provided pa

## About Azitra, Inc.

Azitra, Inc. is an early-stage clinical biopharmaceutical company focused on developing innovative therapies for precision dematology using engineered proteins and topical live biotherapeutic products. The Company has built a proprietary platform that includes a microbial library comprised of approximately 1,500 unique bacterial strains that can be screened for unique therapeutic characteristics. The platform is augmented by artificial intelligence and machine learning technology that analyzes, predicts, and hejes are cereen the Company's library of strains for drug fixe molecules. The Company's Initial locus is on the development of general drains of Staphylococcus applications, or S. epidemany considers to be an optimal therapeutic candidate species for engineering of demandois phenapies. For more information, please visit

### Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. These statements may be identified by words such as "aims," "articipates," "believes," "could," "estimates," "expects," "forecasts," "goal," "intends," "may," "plans," "possible," possible," possible," possible, "possible," possible are release that are not statements in this press release that are not statements and are not statements of these words or similar expressions that are intended to be forward-looking statements. These forward-looking statements in this press, release that are not statements of the several contains and administration of the several cont

Any forward-looking statements in this press release are based on current expectations, estimates and projections only as of the date of this release and are subject to a number of risks and uncertainties that could cause calcular results to differ materially and adversely from those set forth in or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to that we may fall to successfully complete our Phase 1b trial for ATR-12 and preclinical studies of other product candidates and obtain required approval before commercialization; our product candidates may be effective. There may be delays in regulatory approval or changes in regulatory framework that are out of our control, our estimation of addressable markets of our product candidates may be involved in disputes surrounding the use of our inhelicitual property in the control in the control of the control o

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Investor Relations Contact: Norman Staskey Chief Financial Officer staskey@azitrainc.com

Hayden IR James Carbonara (646) 755-7412

Source: Azitra, Inc.