

Brickell Biotech Announces Positive Topline Results, Achieving Statistical Significance on all Primary and Secondary Endpoints, from Both U.S. Phase 3 Pivotal Clinical Studies of Sofpironium Bromide Gel, 15% in Primary Axillary Hyperhidrosis Patients

Sofpironium bromide gel, 15% was generally well-tolerated

Plan to submit a New Drug Application (NDA) to the FDA in mid-2022

Management to host webcast and conference call today at 8:30 a.m. ET to present the topline results

BOULDER, Colo., Oct. 07, 2021 (GLOBE NEWSWIRE) -- Brickell Biotech, Inc. ("Brickell") (Nasdaq: BBI), a clinical-stage pharmaceutical company striving to transform patient lives by developing innovative and differentiated prescription therapeutics for the treatment of dermatologic, autoimmune and other debilitating diseases, today announced positive topline results from the Phase 3 pivotal Cardigan I and Cardigan II studies, which evaluated sofpironium bromide gel, 15% as a once daily topical formulation in patients with primary axillary hyperhidrosis (excessive underarm sweating).

"We are excited to report the positive topline results from our pivotal Phase 3 clinical studies. These data are highly encouraging and further reinforce our belief that sofpironium bromide gel, 15% has the potential to become a best-in-class treatment option for the millions of patients suffering from primary axillary hyperhidrosis," said Robert Brown, Chief Executive Officer of Brickell. "The results from the Cardigan I and Cardigan II studies, along with all previously completed clinical studies, will form the basis for a U.S. NDA for sofpironium bromide gel, 15%, which we expect to submit to the FDA in mid-2022. We are tremendously appreciative of the collaborative and diligent efforts of our patients, study investigators, partners and employees who participated in or contributed to these studies. This was a huge team effort, and we are thankful to all of those involved in making our Phase 3 program a success."

"These data demonstrate that once-daily topical sofpironium bromide gel, 15% achieved early, sustained and significant improvements in primary axillary hyperhidrosis signs and symptoms consistent across all efficacy measures and was generally well-tolerated over six weeks of treatment," commented Stacy Smith, MD, a practicing dermatologist. "I feel privileged to have served as a principal investigator in the U.S. pivotal Phase 3 program.

There is a real need for new and improved hyperhidrosis treatment options, and the results from these pivotal Phase 3 studies further support the potential for sofpironium bromide gel, 15% to become a first-line therapy of choice for patients with primary axillary hyperhidrosis."

The U.S. Phase 3 pivotal clinical program for sofpironium bromide gel, 15% was comprised of two pivotal clinical studies. The Cardigan I and Cardigan II studies enrolled 350 subjects and 351 subjects, respectively, who were nine years of age and older with primary axillary hyperhidrosis. The studies were multicenter, randomized, double-blinded, vehicle (placebo)-controlled, evaluating the efficacy and safety of topically applied sofpironium bromide gel, 15%. Subjects applied sofpironium bromide gel, 15% or placebo to their underarms once daily at bedtime for six consecutive weeks, with a two-week post-treatment follow-up. Additional details of the Cardigan I and II studies can be found on https://clinicaltrials.gov under identifiers NCT03836287 and NCT03948646, respectively.

All primary and secondary efficacy endpoints demonstrated statistically significant differences between sofpironium bromide gel, 15% (SB) and vehicle, as follows:

Cardigan I and II Efficacy Results*

	Cardigan I Cardigan II
Co-Primary Efficacy Endpoints	SB Vehicle p-value (n=173) (n=177) SB Vehicle (n=180) (n=171) p-value
 Proportion of subjects achieving at least a 2-point improvement in the HDSM-Ax¹ score from baseline to EOT² 	49.3% 29.4% p<0.001 63.9% 47.0% p=0.003
 Change in GSP³ from baseline to EOT (in mg) 	129.5 -99.3 p=0.002 145.9 131.7 p=0.030

	Secondary Efficacy Endpoints	Cardigan I			Cardigan II		
		SB (n=173)	Vehicle (n=177)	p-value	SB (n=180)	Vehicle (n=171) p-value	3
	 Proportion of subjects achieving at least a 1-point improvement in the HDSM-Ax score from baseline to EOT 	82.8%	69.5%	p=0.005	89.9%	80.8% p=0.02	0

 Proportion of subjects achieving at least a 2-point improvement in the HDSM-Ax score and at least a 70% reduction in GSP from baseline to EOT 	32.1%	10.2% p<0.0001	35.5%	21.4% p=0.006
 Proportion of subjects achieving at least a 1-point improvement in the HDSM-Ax score and at least a 50% reduction in GSP from baseline to EOT 	54.3%	33.3% p<0.001	68.7%	54.6% p=0.014

^{*} Intent-to-Treat analysis population

Cardigan I and II Safety Results

In the Cardigan I and II studies, sofpironium bromide gel, 15% was generally well-tolerated. The Treatment-Emergent Adverse Events (TEAEs) were mild or moderate in severity and transient in nature. Overall, 89% of patients who were randomized to sofpironium gel, 15% in the studies completed the full six weeks of treatment. Common adverse events (incidence ≥2%) observed in the sofpironium bromide gel, 15% treatment group in the Cardigan I and II studies were dry mouth (11.6%, 17.2%), blurred vision (5.2%, 11.7%), application site pain (6.4%, 10.0%), application site erythema (5.2%, 7.8%), mydriasis (7.5%, 5.0%), application site pruritis (6.4%, 2.2%), application site dermatitis (5.8%, 5.6%), urinary retention (1.2%, 3.3%), application site irritation (1.2%, 3.3%), dry eye (0.6%, 3.3%), headache (1.2%, 2.2%), constipation (0.6%, 2.2%) and urinary hesitation (0.6%, 2.2%), respectively. Five (2.9%) and nine (5.0%) subjects who received sofpironium bromide gel, 15%, discontinued the Cardigan I and II studies, respectively, due to a TEAE. No treatment-related Serious Adverse Events (SAEs) were reported.

Conference Call and Webcast Information

Brickell's management will host a webcast and conference call today at 8:30 a.m. ET to discuss the topline data announced in this release. The dial-in number for the conference call is 1-877-705-6003 for domestic participants and 1-201-493-6725 for international participants, with Conference ID #13723931. A live webcast of the conference call can be accessed here or through the "Investors" tab on the Brickell Biotech website at https://www.brickellbio.com. A replay will be available on this website shortly after

¹ HDSM-Ax = Hyperhidrosis Disease Severity Measure–Axillary, a proprietary and validated patient-reported outcome measure

² EOT = End of treatment

³ GSP = gravimetric sweat production

conclusion of the event for approximately 90 days.

About Sofpironium Bromide

Sofpironium bromide is a new chemical entity that belongs to a class of medications called anticholinergics. Anticholinergics block the action of acetylcholine, a chemical that transmits signals within the nervous system that are responsible for a range of bodily functions, including activation of the sweat glands. Sofpironium bromide was retrometabolically designed. Retrometabolic drugs are intended to exert their action locally and are potentially rapidly metabolized into a less active metabolite once absorbed into the blood. Sofpironium bromide gel, 15% has completed a U.S. pivotal Phase 3 clinical program for the treatment of primary axillary hyperhidrosis, and sofpironium bromide gel, 5% is approved in Japan for the same indication under the brand name ECCLOCK[®]. Sofpironium bromide was discovered at Bodor Laboratories, Inc. by Dr. Nicholas Bodor D.Sc., d.h.c. (multi), HoF, Graduate Research Professor Emeritus, University of Florida.

About Hyperhidrosis

Hyperhidrosis is a debilitating, life-altering medical condition where a person sweats beyond what is physiologically required for thermoregulation of the body. More than 15 million people, or 4.8% of the population of the United States, and 12.76% of the population in Japan, are believed to suffer from hyperhidrosis^{1,2}. Primary axillary (underarm) hyperhidrosis is the targeted first indication for sofpironium bromide and is the most common site of occurrence of hyperhidrosis, affecting an estimated 65% of patients with hyperhidrosis in the United States. Additional information can be found on the International Hyperhidrosis Society website: https://www.sweathelp.org/.

About Brickell

Brickell Biotech, Inc. is a clinical-stage pharmaceutical company striving to transform patient lives by developing innovative and differentiated prescription therapeutics for the treatment of dermatologic, autoimmune and other debilitating diseases. Brickell's pipeline combines a potential best-in-class, late clinical-stage program for hyperhidrosis with a novel, cutting-edge platform and development stage candidates with broad potential in autoimmune and neuroinflammatory disorders. Brickell's executive management team and board of directors bring extensive experience in product development and global commercialization, having served in leadership roles at large global pharmaceutical companies and biotechs that have developed and/or launched successful products, including several that were first-in-class and/or achieved iconic status, such as Cialis®, Taltz®, Gemzar®, Prozac®, Cymbalta® and Juvederm®. Brickell's strategy is to leverage this experience to in-license, acquire, develop and commercialize innovative and differentiated pharmaceutical products that Brickell believes can meaningfully benefit patients who are suffering from chronic debilitating diseases that are underserved by available therapies. For more information, visit https://www.brickellbio.com.

Cautionary Note Regarding Forward-Looking Statements

Any statements made in this press release relating to future financial, business and/or research and clinical performance, conditions, plans, prospects, trends, or strategies and

other such matters, including without limitation, the anticipated timing, scope, design and/or results of ongoing and future pre-clinical and clinical trials, intellectual property rights, including the validity, term and enforceability of such, the expected timing and/or results of regulatory applications and approvals, and size and prospects for commercializing any of Brickell's product candidates, or research collaborations with its partners, including in Japan, Korea, the United States or any other country, are forward-looking statements within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. In addition, when or if used in this press release, the words "may," "could," "would," "should," "might," "anticipate," "believe," "estimate," "expect," "intend," "plan," "predict," "potential," "look forward" and similar expressions and their variants, as they relate to Brickell or any of Brickell's partners, may identify forward-looking statements. Brickell cautions that these forward-looking statements are subject to numerous assumptions, risks, and uncertainties, which change over time, often quickly and in unanticipated ways. Important factors that may cause actual results or events to differ materially from what are discussed in the forward-looking statements or known by historical experience include risks and uncertainties, including without limitation, research results and data that do not meet targets or expectations, ability to obtain adequate financing for product development, regulatory submissions and any commercialization, ability to maintain and enforce intellectual property rights, potential delays or alterations for any reason in product development and regulatory submission and reviews, changes in law or policy, regulatory agency feedback or requests, supply chain disruptions, unanticipated demands on cash resources, any disruption to its business caused by the current COVID-19 pandemic, interruptions, disruption or inability by Brickell or its partners to supply and commercialize research material and/or the product anywhere in the world, or obtain or retain adequate pricing or reimbursement, the outcome of Brickell's current and planned preclinical and clinical trials, and other risks associated with developing and obtaining regulatory approval for and commercializing product candidates.

Further information on the factors and risks that could cause actual results to differ from any forward-looking statements are contained in Brickell's filings with the United States Securities and Exchange Commission (SEC), which are available at https://www.brickellbio.com). The forward-looking statements represent the estimates of Brickell as of the date hereof only, and Brickell specifically disclaims any duty or obligation to update forward-looking statements.

- 1 Doolittle et al. Hyperhidrosis: an update on prevalence and severity in the United States. Arch Dermatol Res 2016; 308: 743-749.
- 2 Fujimoto et al. Epidemiological study and considerations of focal hyperhidrosis in Japan. J Dermatol 2013; 40: 886-90.

Brickell Investor Contact:

Dan Ferry LifeSci Advisors (617) 430-7576 daniel@lifesciadvisors.com



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