Innocan Pharma Announces Clinical Study Results: Evidence of Reduced Osteoarthritis Pain in Dogs After Liposomal CBD Injection

HERZLIYA, Israel and CALGARY, AB, Aug. 29, 2023 /CNW/ -- Innocan Pharma Corporation (CSE: INNO) (FSE: IP4) (OTCQB: INNPF) (the "Company" or "Innocan") is pleased to announce the results of a clinical study regarding the pain-relieving effects and safety of the Company's subcutaneous liposomal CBD (Innocan's LPT platform) for dogs with osteoarthritis. Published in the *Frontiers in Veterinary Science Journal*, under the research topic "Use of Cannabis Derivatives in Veterinary Medicine" (the "Study"). The Study highlights that CBD plasma levels were detected for six weeks following a single subcutaneous dose of Liposomal-CBD, causing minimal side effects and effectively decreasing pain, leading to improved well-being in affected dogs.

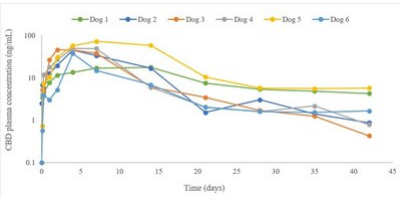

Figure 1: Plasma cannabidiol (CBD) concentrations (ng/mL) in 6 dogs with osteoarthritis before and up to 42 days (6 weeks) following a single subcutaneous liposomal CBD injection at 5 mg/kg.

In the study, six dogs with naturally-occurring osteoarthritis, unresponsive to conventional medications, were treated with a single injection of five mg/kg liposomal-CBD (in addition to their routine medications). The subsequent observations spanned six weeks and included measuring CBD plasma concentrations, blood work, collar activity data, and evaluations of well-being and pain. The results were encouraging; dogs exhibited a substantial drop in pain levels and an uptick in activity.

Key findings include:

- Prolonged CBD detection in the plasma with a peak concentration of 45.2 (17.8-72.5) ng/mL.
- Significant decrease in pain and increase in well-being for several weeks.
- Significant increase in activity (objectively measured) by the fifth and sixth weeks.
- Minor swelling at the injection site in five out of six dogs, which resolved within a few days without any treatment.

The study underscores the effectiveness and increased bioavailability of LPT-CBD tested as part of a multimodal pain management in dogs with osteoarthritis. With the drug's plasma concentrations detectable for six weeks and high exposure in terms of AUC (area under the concentration-time curve), the research suggests that this liposomal formulation could become a useful addition to pain management strategies for improving the quality of life in dogs with osteoarthritis.

Read the full study on **Frontiers in Veterinary Science**:
Frontiers | Therapeutic efficacy and pharmacokinetics of liposomal-cannabidiol injection: a pilot clinical study in dogs with naturally-occurring osteoarthritis (frontiersi

Innocan Pharma's CEO, Iris Bincovich, expressed her gratitude to the dedicated team of scientists at their Liposome technology labs in Jerusalem: "Our results, covered by one of the world's leading publications, stand as a testament to the potential of our innovative formulations and drug delivery systems. I'm profoundly proud of our team's groundbreaking work." This is an important milestone since publications in the scientific community provide guided information that impacts future drug development decisions and regulatory approval. Our publication clearly provides positive impact on both efficacy and safety parameters of LPT-CBD.

Innocan's relationship with The Hebrew University

Innocan Pharma Ltd., a wholly owned subsidiary of the Company, has entered into a worldwide exclusive research and license agreement with Yissum Research and Development Company ("**Yissum**"), the commercial arm of The Hebrew University of Jerusalem, with respect to the design, preparation, characterization and evaluation of hydrogels containing CBD (or other cannabinoids) loaded liposomes. The research and development initiative is led by Professor Chezy Barenholz, head of the Membrane and Liposome Research Department at The Hebrew University, which is the inventor of over fifty-five patent families, two of which underlie Doxil®, an FDA-approved drug for breast cancer treatment. This unique liposome platform technology may have a wide range of applications, such as epilepsy, pain relief, inflammation and central nervous system disorders. A patent was filed covering this technology on October 7, 2019.

About Innocan

Innocan Pharma is a pharmaceutical tech company that focuses on the development of several drug delivery platforms containing CBD. Innocan Pharma and Ramot at Tel Aviv University are collaborating on a new, revolutionary exosome-based technology that targets both central nervous system (CNS) indications and the Covid-19 Corona Virus using CBD. CBD-loaded exosomes hold the potential to help in the recovery of infected lung cells. This product, which is expected to be administered by inhalation, will be tested against a variety of lung infections.

Innocan Pharma signed a worldwide exclusive license agreement with Yissum, the commercial arm of The Hebrew University of Jerusalem, to develop a CBD drug delivery platform based on a unique-controlled release liposome to be administered by injection. Innocan Israel plans, together with Professor Barenholz, to test the liposome platform on several potential conditions. Innocan Israel is also working on a dermal product that integrates CBD with other pharmaceutical ingredients as well as the development and sale of CBD-integrated pharmaceuticals, including, but not limited to, topical treatments for the relief of psoriasis symptoms as well as the treatment of muscle pain and rheumatic pain. The founders and officers of Innocan Israel each have commercially successful track records in the pharmaceutical and technology sectors in Israel and globally.

NEITHER THE CANADIAN SECURITIES EXCHANGE NOR ITS REGULATION SERVICES PROVIDER HAVE REVIEWED OR ACCEPT RESPONSIBILITY FOR THE ADEQUACY OR ACCURACY OF THIS RELEASE.

Caution regarding forward-looking information

Certain information set forth in this news release, including, without limitation, information regarding research and development, collaborations, the filing of potential applications with the FDA and other regulatory authorities, the potential achievement of future regulatory milestones, the potential for treatment of conditions and other therapeutic effects resulting from research activities and/or the Company's products, requisite regulatory approvals and the timing for market entry, is forward-looking information within the meaning of applicable securities laws. By its nature, forward-looking information is subject to numerous risks and uncertainties, some of which are beyond Innocan's control. The forward-looking information contained in this news release is based on certain key expectations and assumptions made by Innocan, including expectations and assumptions concerning the anticipated benefits of the products, satisfaction of regulatory requirements in various jurisdictions and satisfactory completion of requisite production and distribution arrangements.

Forward-looking information is subject to various risks and uncertainties which could cause actual results and experience to differ materially from the anticipated results or expectations expressed in this news release. The key risks and uncertainties include but are not limited to: general global and local (national) economic, market and business conditions; governmental and regulatory requirements and actions by governmental authorities; and relationships with suppliers, manufacturers, customers, business partners and competitors. There are also risks that are inherent in the nature of product distribution, including import / export

matters and the failure to obtain any required regulatory and other approvals (or to do so in a timely manner) and availability in each market of product inputs and finished products. The anticipated timeline for entry to markets may change for a number of reasons, including the inability to secure necessary regulatory requirements, or the need for additional time to conclude and/or satisfy the manufacturing and distribution arrangements. As a result of the foregoing, readers should not place undue reliance on the forward-looking information contained in this news release concerning the timing of launch of product distribution. A comprehensive discussion of other risks that impact Innocan can also be found in Innocan's public reports and filings which are available under Innocan's profile at www.sedar.com.

Readers are cautioned that undue reliance should not be placed on forward-looking information as actual results may vary materially from the forward-looking information. Innocan does not undertake to update, correct or revise any forward looking information as a result of any new information, future events or otherwise, except as may be required by applicable law.

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