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Subject: GW Pharmaceuticals Announces Positive Phase 3 Pivotal Study Results for Epidiolex(R) (cannabidiol)

Thanks to several people who forwarded the following progress report on Epidiolex, a pure pharmaceutical CBD product that is being studied through an FDA-approved clinical trial. Last year, Idaho's governor Butch Otter established an expanded access program as part of this study and children are now being treated under strict medical supervision that will advance scientific knowledge about the relative benefits (and potential harms) of CBD-based treatments for children suffering from Dravet's syndrome and other epileptic disorders. CBDs do not contain THC, the psychoactive ingredient in marijuana.

Through this legitimate research process, the FDA has given Epidiolex both Orphan Drug Designation and Fast Track Designation.

Unlike Idaho, some states have provided access to an unregulated CBD market that is untested, unregulated, and fraught with contaminated products and unreliable dosages - all without adequate medical supervision.

The successful completion of this Phase 3 study is a positive step in bringing safe and effective relief to pediatric victims of epilepsy. For more details, see below. Monte

GW Pharmaceuticals Announces Positive Phase 3 Pivotal Study Results for Epidiolex® (cannabidiol)

- Study in the treatment of Dravet syndrome — a rare and severe form of epilepsy in children with no FDA-approved treatments -

- Primary endpoint achieved with high statistical significance ($p=0.01$) showing that Epidiolex treatment reduces convulsive seizures in children compared to placebo -

- Company to hold investor conference call today at 8:00 a.m. EDT/12:00 Noon GMT -

LONDON, March 14, 2016 (GLOBE NEWSWIRE) -- GW Pharmaceuticals plc (Nasdaq:GWPH) (AIM:GWP) ("GW," "the Company" or "the Group"), a biopharmaceutical company focused on discovering, developing and commercializing novel therapeutics from its proprietary cannabinoid product platform, announces the positive results of the first pivotal Phase 3 study of its investigational medicine Epidiolex® (cannabidiol or CBD) for the treatment of Dravet syndrome. In this study, Epidiolex achieved the primary endpoint of a significant reduction in convulsive seizures assessed over the entire treatment period compared with placebo ($p=0.01$). **Epidiolex has both Orphan Drug Designation and Fast Track Designation from the U.S. Food and Drug Administration (FDA) in the treatment of Dravet syndrome, a rare and debilitating type of epilepsy for which there are currently no treatments approved in the U.S.**

"The results of this Epidiolex pivotal trial are important and exciting as they represent the first placebo-controlled evidence to support the safety and efficacy of pharmaceutical cannabidiol in children with Dravet syndrome, one of the most severe and difficult-to-treat types of epilepsy," said Orrin Devinsky, M.D., of New York University Langone Medical Center's Comprehensive Epilepsy Center. "These data demonstrate that Epidiolex delivers clinically important reductions in seizure frequency together with an acceptable safety and tolerability profile, providing the epilepsy community with the prospect of an

appropriately standardized and tested pharmaceutical formulation of cannabidiol being made available by prescription in the future."

"The positive outcome of this Phase 3 trial is a significant milestone in the development of Epidiolex as a potential new treatment for patients suffering from Dravet syndrome. We are excited about the potential for Epidiolex to become the first FDA approved treatment option specifically for Dravet syndrome patients and their families," stated Justin Gover, GW's Chief Executive Officer. "In light of this positive data, we will now request a pre-NDA meeting with the FDA to discuss our proposed regulatory submission. We also look forward with excitement to the upcoming results from the two Phase 3 trials in Lennox-Gastaut syndrome and the second pivotal trial in Dravet syndrome."

"Dravet syndrome is one of the most catastrophic types of epilepsy in children and safe and effective treatments are desperately needed. We are thrilled to learn of these positive results, which bring much needed hope to the children and families who have been living with these debilitating seizures," said Mary Anne Meskis, Executive Director of the Dravet Syndrome Foundation.

Study Overview

The Phase 3 study randomized 120 patients into two arms, Epidiolex 20mg/kg/day (n=61) and placebo (n=59). Epidiolex or placebo was added to current anti-epileptic drug (AED) treatment regimens. On average, patients were taking approximately 3 AEDs, having previously tried and failed an average of more than 4 other AEDs. The average age of trial participants was 10 years and 30 percent of patients were less than 6 years of age. The median baseline convulsive seizure frequency per month was 13.

The primary efficacy endpoint was a comparison between Epidiolex and placebo measuring the percentage change in the monthly frequency of convulsive seizures during the 14-week treatment period compared with the 4-week baseline observation period. In this study, patients taking Epidiolex achieved a median reduction in monthly convulsive seizures of 39 percent compared with a reduction on placebo of 13 percent, which was highly statistically significant ($p=0.01$). A series of sensitivity analyses of the primary endpoint confirmed the robustness of this result. The difference between Epidiolex and placebo emerged during the first month of treatment and was sustained during the entire treatment period.

Results from secondary efficacy endpoints reinforced the overall effectiveness observed with Epidiolex.

Epidiolex was generally well tolerated in this study. The most common adverse events (occurring in greater than 10 percent of Epidiolex-treated patients) were: somnolence, diarrhea, decreased appetite, fatigue, pyrexia, vomiting, lethargy, upper respiratory tract infection and convulsion. Of those patients on Epidiolex that reported an adverse event, 84 percent reported it to be mild or moderate. Ten patients on Epidiolex experienced a serious adverse event compared with three patients on placebo. Eight patients on Epidiolex discontinued treatment due to adverse events compared with one patient on placebo.

Further data will be presented in future publications and medical meetings.

In addition to this first Phase 3 trial, GW is conducting a second Phase 3 trial in Dravet syndrome which is recruiting 150 patients.

GW Clinical Trial Programs in Lennox-Gastaut Syndrome and Tuberous Sclerosis Complex

In addition to the Dravet syndrome trials, GW is conducting the largest global pivotal clinical trial program to date in Lennox-Gastaut syndrome, another rare and severe form of epilepsy. The first Phase 3 trial is a placebo-controlled trial of Epidiolex (at a dose of 20 mg/kg) over a 14-week treatment period and has randomized 171 patients. This trial is expected to report top-line results in the second quarter of 2016. The second placebo-controlled trial has randomized a total of 225 patients and is expected to report top-line results mid-2016. The primary measure of efficacy in these two trials will be the comparison between Epidiolex and placebo in the percentage change in number of monthly drop seizures during the 14-week treatment period compared with the 4-week baseline observation period.

Based on the findings of the physician-led expanded access program, GW continues to identify additional development targets for Epidiolex within the field of childhood-onset epilepsy disorders. A Phase 3 trial in a third epilepsy indication, Tuberous Sclerosis Complex, is due to commence imminently and clinical development in a fourth indication is expected to commence in the second half of 2016.

Investor Conference Call and Webcast Information

GW Pharmaceuticals will host a conference call and webcast for analysts and investors to discuss the results from this initial Phase 3 study today at 8:00 a.m. EDT /12:00 Noon GMT. To participate in the conference call, please dial [877-407-8133](tel:877-407-8133) (toll free from the U.S. and Canada), or 0800-756-3429 (toll free from the UK) or [201-689-8040](tel:201-689-8040) (international). Investors may also access a live audio webcast of the call via the investor relations section of the Company's website at <http://www.gwpharm.com>. A replay of the call will also be available through the GW website shortly after the call and will remain available for 90 days. Replay Numbers: (toll free): [1-877-660-6853](tel:1-877-660-6853), (international): [1-201-612-7415](tel:1-201-612-7415). For both dial-in numbers please use conference ID # 13632627.

About Dravet Syndrome

Dravet syndrome is a severe infantile-onset and highly treatment-resistant epileptic syndrome frequently associated with a genetic mutation in sodium channels. Onset of Dravet syndrome occurs during the first year of life in previously healthy and developmentally normal infants. Initial seizures are often temperature related, severe, and long-lasting. Over time, people with Dravet syndrome can develop multiple types of seizures, including tonic-clonic, myoclonic, and atypical absences and are prone to bouts of prolonged seizures called status epilepticus, which can be life threatening. Risk of premature death including SUDEP (sudden unexpected death in epilepsy) is elevated in people with Dravet syndrome. Additionally, the majority will develop moderate to severe intellectual and development disabilities and require lifelong supervision and care. There are currently no FDA-approved treatments and nearly all patients continue to have uncontrolled seizures and other medical needs throughout their lifetime.

About Epidiolex (cannabidiol)

Epidiolex, GW's lead cannabinoid product candidate, is a liquid formulation of pure plant-derived CBD, which is in development for the treatment of a number of rare childhood-onset epilepsy disorders. GW has conducted extensive pre-clinical research of CBD in epilepsy since 2007. This research has shown that CBD has significant anti-epileptiform and anticonvulsant activity using a variety of in vitro and in vivo models and has the ability to treat seizures in acute animal models of epilepsy with significantly

fewer side effects than existing anti-epileptic drugs. To date, GW has received Orphan Drug Designation from the FDA for Epidiolex in the treatment of both Dravet syndrome and Lennox-Gastaut syndrome. Additionally, GW has received Fast Track Designation from the FDA and Orphan Designation from the European Medicines Agency for Epidiolex for the treatment of Dravet syndrome. GW is currently evaluating additional clinical development programs in other orphan seizure disorders.

About GW Pharmaceuticals plc

Founded in 1998, GW is a biopharmaceutical company focused on discovering, developing and commercializing novel therapeutics from its proprietary cannabinoid product platform in a broad range of disease areas. GW commercialized the world's first plant-derived cannabinoid prescription drug, Sativex[®], which is approved for the treatment of spasticity due to multiple sclerosis in 28 countries outside the United States. GW is advancing an orphan drug program in the field of childhood epilepsy with a focus on Epidiolex[®] (cannabidiol), which is in Phase 3 clinical development for the treatment of Dravet syndrome and Lennox-Gastaut syndrome and which is also expected to enter Phase 3 clinical trials in the treatment of Tuberous Sclerosis Complex. GW has a deep pipeline of additional cannabinoid product candidates which includes compounds in Phase 1 and 2 trials for glioma, type 2 diabetes, schizophrenia and epilepsy. For further information, please visit www.gwpharm.com.

Forward-looking statements

This news release may contain forward-looking statements that reflect GW's current expectations regarding future events, including statements regarding the therapeutic benefit, safety profile and commercial value of the company's investigational drug Epidiolex[®], the development and commercialization of Epidiolex, plans and objectives for product development, plans and objectives for present and future clinical trials and results of such trials, plans and objectives for regulatory approval. Forward-looking statements involve risks and uncertainties. Actual events could differ materially from those projected herein and depend on a number of factors, including (inter alia), the success of the GW's research strategies, the applicability of the discoveries made therein, the successful and timely completion of uncertainties related to the regulatory process, and the acceptance of Sativex[®], Epidiolex[®], and other products by consumer and medical professionals. A further list and description of risks, uncertainties and other risks associated with an investment in GW can be found in GW's filings with the U.S. Securities and Exchange Commission. Existing and prospective investors are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. GW undertakes no obligation to update or revise the information contained in this press release, whether as a result of new information, future events or circumstances or otherwise.

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