

GLAXOSMITHKLINE PLC

Form 6-K

April 19, 2018

FORM 6-K

SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

Report of Foreign Issuer

Pursuant to Rule 13a-16 or 15d-16 of
the Securities Exchange Act of 1934

For period ending 19 April 2018

GlaxoSmithKline plc

(Name of registrant)

980 Great West Road, Brentford, Middlesex, TW8 9GS

(Address of principal executive offices)

Indicate by check mark whether the registrant files or
will file annual reports under cover Form 20-F or Form 40-F

Form 20-F Form 40-F

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Indicate by check mark whether the registrant by furnishing the
information contained in this Form is also thereby furnishing the
information to the Commission pursuant to Rule 12g3-2(b) under the
Securities Exchange Act of 1934.

Yes No

Issued: 18 April 2018, London UK - LSE Announcement

Landmark IMPACT study published in NEJM shows significant benefits of Trelegy Ellipta for patients with COPD

Once-daily single inhaler triple therapy superior to Relvar/Breo Ellipta and Anoro Ellipta across multiple endpoints including exacerbations, lung function and quality of life

GlaxoSmithKline plc (LSE/NYSE: GSK) and Innoviva, Inc. (NASDAQ: INVA) today announced the publication in the New England Journal of Medicine (NEJM) of the landmark IMPACT study, one of the biggest ever conducted in patients with chronic obstructive pulmonary disease (COPD) with a history of exacerbation.¹

In the study, Trelegy Ellipta (fluticasone furoate/umeclidinium/vilanterol, 'FF/UMEC/VI' 100/62.5/25mcg) achieved superiority to members of two different classes of dual combination therapy, Relvar/Breo (FF/VI) and Anoro (UMEC/VI), on the primary endpoint of reduction in the annual rate of on-treatment moderate/severe exacerbations ($p < 0.001$) and a range of other clinically important outcomes, including lung function and health-related quality of life.

Results from additional secondary and other endpoints published today, include:

A statistically significant 34% reduction in COPD hospitalisations (severe exacerbations) for Trelegy compared to Anoro (0.13 vs. 0.19 per year; $p < 0.001$) and a reduction of 13% compared to Relvar/Breo which was not statistically significant (0.13 vs. 0.15; $p = 0.064$).

A significant reduction in the risk of on-treatment all-cause mortality was observed for both inhaled corticosteroid containing arms compared to Anoro.

A 42.1% reduction in the risk of on-treatment all-cause mortality was observed for Trelegy compared to Anoro (1.20% vs. 1.88%; $p = 0.011$).

To fully understand the implications of the all-cause mortality observation, off-treatment data also need to be considered. Work is ongoing to investigate this further and will be presented at future scientific meetings.

Dave Allen, Head, Respiratory Therapy Area R&D, GSK, said, "Reducing exacerbations to keep patients out of hospital is a key goal of COPD management alongside improving lung function and quality of life. The IMPACT study shows how Trelegy Ellipta can help patients with a history of exacerbation achieve these goals. We believe its publication in NEJM is an important addition to the evidence base that informs the management of this progressive and debilitating disease."

Dr. Fernando Martinez, Chief, Division of Pulmonary and Critical Care Medicine, New York-Presbyterian Hospital/Weill Cornell Medical Center, said, "IMPACT significantly advances our understanding of COPD management by addressing a number of key evidence gaps. By comparing various combinations of effective medications in the same device the study clarifies which type of patient gains greatest benefit from each class of medicine. As many patients experience frequent exacerbations or 'flare ups', which can often result in hospitalisation, these data will be highly relevant to patients and clinicians as they consider the optimal treatment."

The safety profile of single inhaler triple therapy was consistent with the safety profile of the individual components. The most common adverse events across the treatment groups were viral upper respiratory tract infection, worsening of COPD, upper respiratory tract infection, pneumonia and headache. Consistent with previous studies, the incidence of pneumonia as a serious adverse event was 4%, 4%, and 3% for FF/UMEC/VI, FF/VI and UMEC/VI, respectively.

Dr Ted Witek, Senior Vice President and Chief Scientific Officer at Innoviva notes, "The role of inhaled corticosteroids ("ICS") in COPD have long been debated, and this landmark trial provides further evidence of their benefit in the population studied and compelling data towards clarifying the role of ICS containing regimens in the COPD treatment paradigm. We congratulate our partners at GSK for this vital contribution to the field of respiratory medicine."

Results from IMPACT were submitted to the regulatory authorities in the US and EU in November 2017 and February 2018, respectively. Further regulatory submissions in other countries are expected in 2018.

About IMPACT

The landmark InforMing the PATHway of COPD Treatment (IMPACT) study is the first to directly compare three commonly-used COPD combination treatment classes delivered using the same dose and inhaler. It is the second of two phase 3 studies designed to investigate the efficacy and safety of FF/UMEC/VI in a single inhaler compared to other commonly-used COPD combination treatments.²

It evaluated as its primary endpoint the annual rate of on-treatment moderate/severe exacerbations for FF/UMEC/VI (100/62.5/25mcg) compared with FF/VI (100/25mcg) and UMEC/VI (62.5/25mcg), two once-daily dual COPD therapies from GSK's existing portfolio. Other secondary and multiple pre-defined protocol 'other' endpoints included lung function, patient reported outcomes, including health-related quality of life measures, and all-cause mortality. A range of safety endpoints were also analysed.

Patients had moderate to very severe symptomatic COPD with a history of exacerbation in the prior 12 months. This is representative of approximately 50% of the global COPD patient population.³ In the study, 10,355 patients were treated in 37 countries in over 1,035 study centres globally, making it one of the biggest COPD studies ever conducted.

About Trelegy Ellipta (FF/UMEC/VI)

FF/UMEC/VI is the first COPD treatment to provide a combination of three molecules in a single inhaler that only needs to be taken in a single inhalation, once a day. It contains fluticasone furoate, an inhaled corticosteroid, umeclidinium, a long-acting muscarinic antagonist; and vilanterol, a long-acting beta2-adrenergic agonist, delivered in GSK's Ellipta dry powder inhaler, which is used across the entire new portfolio of inhaled COPD medicines.

Data from across multiple clinical programmes have demonstrated the benefit of the molecules in FF/UMEC/VI both alone and in combination, for the treatment of COPD.

FF/UMEC/VI was approved in the US in September 2017 for the long-term, once-daily, maintenance treatment of patients with COPD, including chronic bronchitis and/or emphysema, who are on a fixed-dose combination of FF/VI for airflow obstruction and reducing exacerbations in whom additional treatment of airflow obstruction is desired or for patients who are already receiving UMEC and a fixed-dose combination of FF/VI.

Full US Prescribing Information, including BOXED WARNING and Medication Guide are available at:

https://www.gsksource.com/pharma/content/dam/GlaxoSmithKline/US/en/Prescribing_Information/Trelegy/pdf/TRELEGY-PI

FF/UMEC/VI was approved for use in Europe in November 2017 as a maintenance treatment in adult patients with moderate to severe COPD who are not adequately treated by a combination of an inhaled corticosteroid and a long-acting beta2-agonist. The European Summary of Product Characteristics is available at:
<https://www.medicines.org.uk/emc/medicine/34357>

Regulatory applications for once-daily single inhaler triple therapy FF/UMEC/VI have been submitted and are undergoing assessment in a number of other countries.

About COPD

COPD is a progressive lung disease that is thought to affect around 384 million people worldwide.⁴ For people living with COPD, the inability to breathe normally can consume their daily lives and make simple activities, like walking upstairs, an everyday struggle. Patients with COPD suffer from symptoms of breathlessness and many have a significant risk of exacerbations. Managing these aspects of the disease drives physician treatment choice.

Long-term exposure to inhaled irritants that damage the lungs and the airways are usually the cause of COPD. Cigarette smoke, breathing in second hand smoke, air pollution, chemical fumes or dust from the environment or workplace can all contribute to COPD. Most people who have COPD are at least 40 years old when symptoms begin.⁵

Every person with COPD is different, with different needs, different challenges and different goals. Understanding this and providing support to help meet these needs is the foundation of GSK's work.

GSK's commitment to respiratory disease

GSK has led the way in developing innovative medicines to advance the management of asthma and COPD for nearly 50 years. Over the last five years we have launched six innovative medicines responding to continued unmet patient need, despite existing therapies. This is an industry leading portfolio in breadth, depth and innovation, developed to reach the right patients, with the right treatment.

We remain at the cutting-edge of scientific research into respiratory medicine, working in collaboration with patients and the scientific community to offer innovative medicines aimed at helping to treat patients' symptoms and reduce the risk of their disease worsening. While respiratory diseases are clinically distinct, there are important pathophysiological features that span them, and our ambition is to have the most comprehensive portfolio of medicines to address a diverse range of respiratory diseases. To achieve this, we are focusing on targeting the underlying disease-driving biological processes to develop medicines with applicability across multiple respiratory diseases. This approach requires extensive bioinformatics, data analytic capabilities, careful patient selection and stratification by phenotype in our clinical trials.

Important Safety Information (ISI)

The following ISI is based on the Highlights section of the US Prescribing Information for FF/UMEC/VI. Please consult the full Prescribing Information for all the labelled safety information.

Long-acting beta2-adrenergic agonists (LABA), such as vilanterol, increase the risk of asthma-related death. A placebo-controlled trial with another LABA (salmeterol) showed an increase in asthma-related deaths. This finding with salmeterol is considered a class effect of all LABA. The safety and efficacy of Trelegy Ellipta in patients with asthma have not been established. Trelegy Ellipta is not indicated for the treatment of asthma.

Trelegy Ellipta is contraindicated in patients with severe hypersensitivity to milk proteins or any of the ingredients.

Trelegy Ellipta should not be initiated in patients experiencing episodes of acutely deteriorating COPD. Do not use Trelegy Ellipta to treat acute symptoms.

Trelegy Ellipta should not be used in combination with other medicines containing LABA because of risk of overdose.

Candida albicans infection of the mouth and pharynx has occurred in patients treated with fluticasone furoate, a component of Trelegy Ellipta. Monitor patients periodically. Advise the patient to rinse his/her mouth with water without swallowing after inhalation to help reduce the risk.

There is an increased risk of pneumonia in patients with COPD taking Trelegy Ellipta. Monitor patients for signs and symptoms of pneumonia.

Patients who use corticosteroids are at risk for potential worsening of infections (e.g. existing tuberculosis; fungal, bacterial, viral, or parasitic infections; or ocular herpes simplex). Use Trelegy Ellipta with caution in patients with these infections. More serious or even fatal course of chickenpox or measles can occur in susceptible patients.

There is a risk of impaired adrenal function when transferring from systemic corticosteroids. Taper patients slowly from systemic corticosteroids if transferring to Trelegy Ellipta.

Hypercorticism and adrenal suppression may occur with very high dosages or at the regular dosage of Trelegy Ellipta in susceptible individuals. If such changes occur, consider appropriate therapy.

If paradoxical bronchospasm occurs, discontinue Trelegy Ellipta and institute alternative therapy.

Use Trelegy Ellipta with caution in patients with cardiovascular disorders because of beta-adrenergic stimulation.

Assess patients for decrease in bone mineral density initially and periodically thereafter after prescribing Trelegy Ellipta.

Close monitoring for glaucoma and cataracts is warranted in patients taking Trelegy Ellipta. Worsening of narrow-angle glaucoma may occur. Use with caution in patients with narrow-angle glaucoma and instruct patients to contact a healthcare provider immediately if symptoms occur.

Worsening of urinary retention may occur in patients taking Trelegy Ellipta. Use with caution in patients with prostatic hyperplasia or bladder-neck obstruction and instruct patients to contact a healthcare provider immediately if symptoms occur.

Use Trelegy Ellipta with caution in patients with convulsive disorders, thyrotoxicosis, diabetes mellitus, and ketoacidosis.

Be alert to hypokalemia and hyperglycemia in patients taking Trelegy Ellipta.

The most common adverse reactions reported for Trelegy Ellipta (incidence $\geq 1\%$) are headache, back pain, dysgeusia, diarrhea, cough, oropharyngeal pain, and gastroenteritis.

GSK - a science-led global healthcare company with a special purpose: to help people do more, feel better, live longer. For further information please visit www.gsk.com.

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Innoviva - Innoviva is focused on bringing compelling medicines to patients in areas of unmet need by leveraging its significant expertise in the development, commercialization and financial management of bio-pharmaceuticals. Innoviva's portfolio is anchored by the respiratory assets partnered with Glaxo Group Limited (GSK), including RELVAR®/BREO® ELLIPTA®, ANORO® ELLIPTA® and TRELEGY® ELLIPTA®, which were jointly developed by Innoviva and GSK. Under the agreement with GSK, Innoviva is eligible to receive associated royalty revenues from RELVAR®/BREO® ELLIPTA® and ANORO® ELLIPTA®. In addition, Innoviva retains a 15 percent economic interest in future payments made by GSK for TRELEGY® ELLIPTA® and earlier-stage programs partnered with Theravance Biopharma, Inc. For more information, please visit Innoviva's website at www.inva.com.

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Cautionary statement regarding forward-looking statements GSK cautions investors that any forward-looking statements or projections made by GSK, including those made in this announcement, are subject to risks and uncertainties that may cause actual results to differ materially from those projected. Such factors include, but are not limited to, those described under Item 3.D Principal risks and uncertainties in the company's Annual Report on Form 20-F for 2017.

Innoviva forward-looking statements

This press release contains certain "forward-looking" statements as that term is defined in the Private Securities Litigation Reform Act of 1995 regarding, among other things, statements relating to goals, plans, objectives and future events, including the development, regulatory and commercial plans for closed triple combination therapy and the potential benefits and mechanisms of action of closed triple combination therapy. Innoviva intends such forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 21E of the Securities Exchange Act of 1934 and the Private Securities Litigation Reform Act of 1995. Such forward-looking statements involve substantial risks, uncertainties and assumptions. These statements are based on the current estimates and assumptions of the management of Innoviva as of the date of this press release and are subject to risks, uncertainties, changes in circumstances, assumptions and other factors that may cause the actual results of Innoviva to be materially different from those reflected in the forward-looking statements. Important factors that could cause actual results to differ materially from those indicated by such forward-looking statements are described under the headings "Risk Factors" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" contained in Innoviva's Annual Report on Form 10-K for the year ended December 31, 2017, which is on file with the Securities and Exchange Commission (SEC) and available on the SEC's website at www.sec.gov. Additional factors may be described in those sections of Innoviva's Quarterly Report on Form 10-Q for the quarter ended March 31, 2018, to be filed with the SEC in the second quarter of 2018. In addition to the risks described above and in Innoviva's other filings with the SEC, other unknown or unpredictable factors also could affect Innoviva's results. No forward-looking statements can be guaranteed and actual results may differ materially from such statements. Given these uncertainties, you should not place undue reliance on these forward-looking statements. The information in this press release is provided only as of the date hereof, and Innoviva assumes no obligation to update its forward-looking statements on account of new information, future events or otherwise, except as required by law.

(INVA-G)

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No. 3888792

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References (accessed March 2018)

1. Lipson DA et al. Once-Daily Single Inhaler Triple Versus Dual Therapy in Patients with COPD. *New England Journal of Medicine*. 2018.
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3. GSK data on file. RF/CPD/0003/18. Frequency of acute exacerbations of COPD among patients treated with maintenance therapy in three observational studies.
4. Global Strategy for the Diagnosis, Management and Prevention of COPD, Global Initiative for Chronic Obstructive Lung Disease (GOLD) 2017. Available from: <http://goldcopd.org>.
5. Diagnosis of COPD. World Health Organization. Available at: <http://www.who.int/respiratory/copd/diagnosis/en/>

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorised.

GlaxoSmithKline plc
(Registrant)

Date: April 19, 2018

By: VICTORIA WHYTE

Victoria Whyte
Authorised Signatory for and on
behalf of GlaxoSmithKline plc