

# Pivotal data at ATS 2021 show Dupixent<sup>®</sup> (dupilumab) significantly reduced asthma attacks and improved lung function in children

- Dupixent is the only biologic medicine to improve lung function in children aged 6 to 11 years with uncontrolled moderate-to-severe asthma in a randomized Phase 3 trial, with potential to be best-in-class treatment for these patients
- \* Results further support well-established safety profile of Dupixent
- \* FDA decision for children with moderate-to-severe asthma expected by October 21, 2021

**PARIS and TARRYTOWN, N.Y. – May 17, 2021** – Detailed results from a Phase 3 trial showed Dupixent<sup>®</sup> (dupilumab) significantly reduced severe asthma attacks, and within two weeks rapidly improved lung function in children aged 6 to 11 years with uncontrolled moderate-to-severe asthma, with evidence of type 2 inflammation. Dupixent also significantly improved overall asthma symptom control and reduced an airway biomarker of type 2 inflammation that plays a major role in asthma, called fractional exhaled nitric oxide (FeNO). These data are being presented at the 2021 American Thoracic Society International Conference (ATS 2021) and featured in the *Breaking News: Clinical Trial Results in Pulmonary Medicine* Scientific Symposium.

"Children living with uncontrolled moderate-to-severe asthma experience serious and persistent symptoms that can impact many crucial aspects of their lives including school, sleep and exercise," says Leonard B. Bacharier, M.D., Professor of Pediatrics and Director of the Center for Pediatric Asthma Research, Monroe Carell Jr. Children's Hospital at Vanderbilt University Medical Center in Nashville, Tennessee and principal investigator of the trial. "The trial results show that dupilumab, when added to standard of care therapy, significantly reduced asthma attacks, rapidly improved lung function and improved asthma control, which is especially important to these children during a particularly formative time in their lives."

Asthma is the most common chronic disease in children, with approximately 75,000 children aged 6 to 11 years living with the uncontrolled moderate-to-severe form of the disease in the U.S., and many more worldwide. Despite treatment with current standard-of-care inhaled corticosteroids and bronchodilators, these children may continue to experience serious symptoms such as coughing, wheezing and difficulty breathing. They also may require the use of multiple courses of systemic corticosteroids that carry significant risks. Children who have asthma with underlying type 2 inflammation, which is

the most common cause of asthma in children, are more likely to have poor asthma control, more frequent asthma attacks and symptoms that interfere with day-to-day activities.

The Phase 3, randomized, double-blind, placebo-controlled VOYAGE trial evaluated the efficacy and safety of Dupixent (100 mg or 200 mg every two weeks, based on weight) combined with standard-of-care asthma therapy in 408 children with uncontrolled moderate-to-severe asthma. Two pre-specified populations with evidence of type 2 inflammation were evaluated for the primary analysis: 1) patients with baseline blood eosinophils (EOS)  $\geq$ 300 cells/µl (n=259) and 2) patients with FeNO  $\geq$ 20 parts per billion (ppb) or EOS  $\geq$ 150 cells/µl; n=350.

Top line results from the trial, which met its primary and key secondary endpoint, were <u>announced</u> in October 2020. These data showed that patients who added Dupixent to standard of care in these two patient groups, respectively, experienced:

- Substantially reduced rate of severe asthma attacks, with a 65% (p<0.0001) and 59% (p<0.0001) average reduction over one year compared to placebo (0.24 and 0.31 events per year for Dupixent vs. 0.67 and 0.75 for placebo, respectively).
- Improved lung function observed as early as two weeks and sustained for up to 52 weeks, measured by percent predicted FEV<sub>1</sub> (FEV<sub>1</sub>pp).
  - At 12 weeks, patients taking Dupixent improved their lung function by 5.32 and 5.21 percentage points vs. placebo (p=0.0036 and p=0.0009, respectively).
  - This measure seeks to evaluate a patient's change in lung function compared to their predicted lung function based on age, height, sex, and ethnicity to account for children's growing lung capacity at different stages of development.

# New VOYAGE data presented at ATS

Results presented for the first time at ATS in the primary patient populations showed patients taking Dupixent experienced:

- Significant improvement in asthma control at week 24 based on patient-reported disease symptoms and impact, measured on a 0-6 scale. On average, patients taking Dupixent improved their scores by 1.34 and 1.33 from baseline compared to 0.88 and 1.00 for placebo (average improvement of -0.46 and -0.33 for Dupixent vs. placebo, p<0.0001 and p=0.0001, respectively). The improvement from baseline in patients taking Dupixent was more than double the clinically meaningful threshold of 0.5 points on the Asthma Control Questionnaire 7-Interviewer Administered (ACQ-7-IA).</li>
- Significant reduction in mean FeNO levels to below the threshold for type 2 inflammation, which is 20 parts per billion (ppb). Patients taking Dupixent had an average improvement in FeNO levels by -20.59 and -17.84 ppb vs. placebo from baseline to week 12 (p<0.0001 for both values).

The safety results from the trial were generally consistent with the known safety profile of Dupixent in patients aged 12 years and older with uncontrolled moderate-to-severe asthma. The overall rates of adverse events were 83% for Dupixent and 80% for placebo. Adverse events that were most commonly observed with Dupixent versus placebo included injection site reactions (18% Dupixent, 13% placebo), viral upper respiratory tract infections (12% Dupixent, 10% placebo), and eosinophilia (6% Dupixent, 1% placebo).

The safety and efficacy of Dupixent in this pediatric population have not been fully evaluated by any regulatory authority.

Dupixent is a fully human monoclonal antibody that inhibits the signaling of the interleukin-4 (IL-4) and interleukin-13 (IL-13) pathways and is not an immunosuppressant. IL-4 and IL-13 are key and central drivers of the type 2 inflammation that plays a major role in asthma, chronic rhinosinusitis with nasal polyposis (CRSwNP), atopic dermatitis, and eosinophilic esophagitis.

## **About Dupixent**

Dupixent is approved in the U.S. to treat patients aged 6 years and older with moderateto-severe atopic dermatitis that is not well controlled with prescription therapies used on the skin (topical), or who cannot use topical therapies; for use with other asthma medicines for the maintenance treatment of moderate-to-severe eosinophilic or oral steroid dependent asthma in patients aged 12 years and older whose asthma is not controlled with their current asthma medicines; and for use with other medicines for the maintenance treatment of CRSwNP in adults whose disease is not controlled.

Outside of the U.S., Dupixent is approved for specific patients with moderate-to-severe atopic dermatitis and certain patients with asthma in a number of other countries around the world, including those in the EU and Japan. Dupixent is also approved in the EU and Japan to treat certain adults with severe CRSwNP. Across all approved indications globally, more than 260,000 patients have been treated with Dupixent.

## Dupilumab development program

To date, dupilumab has been studied in more than 10,000 patients across 50 clinical trials in various chronic diseases driven by type 2 inflammation.

In addition to the currently approved indications, Sanofi and Regeneron are studying dupilumab in a broad range of diseases driven by type 2 inflammation or other allergic processes, including pediatric asthma (6 to 11 years of age, Phase 3), chronic obstructive pulmonary disease with evidence of type 2 inflammation (Phase 3), pediatric atopic dermatitis (6 months to 5 years of age, Phase 3), eosinophilic esophagitis (Phase 3), bullous pemphigoid (Phase 3), prurigo nodularis (Phase 3), chronic spontaneous urticaria (Phase 3), chronic inducible urticaria-cold (Phase 3), chronic rhinosinusitis without nasal polyposis (Phase 3), allergic fungal rhinosinusitis (Phase 3), allergic bronchopulmonary aspergillosis (Phase 3) and food allergies (Phase 2). These potential uses of dupilumab are currently under clinical investigation, and the safety and efficacy in these conditions

have not been fully evaluated by any regulatory authority. Dupilumab is being jointly developed by Sanofi and Regeneron under a global collaboration agreement.

## About Regeneron

Regeneron (NASDAQ: REGN) is a leading biotechnology company that invents life-transforming medicines for people with serious diseases. Founded and led for over 30 years by physician-scientists, our unique ability to repeatedly and consistently translate science into medicine has led to nine FDA-approved treatments and numerous product candidates in development, almost all of which were homegrown in our laboratories. Our medicines and pipeline are designed to help patients with eye diseases, allergic and inflammatory diseases, cancer, cardiovascular and metabolic diseases, pain, infectious diseases and rare diseases.

Regeneron is accelerating and improving the traditional drug development process through our proprietary *VelociSuite®* technologies, such as *VelocImmune®*, which uses unique genetically humanized mice to produce optimized fully human antibodies and bispecific antibodies, and through ambitious research initiatives such as the Regeneron Genetics Center, which is conducting one of the largest genetics sequencing efforts in the world.

For additional information about the company, please visit www.regeneron.com or follow @Regeneron on Twitter.

### **About Sanofi**

Sanofi is dedicated to supporting people through their health challenges. We are a global biopharmaceutical company focused on human health. We prevent illness with vaccines, provide innovative treatments to fight pain and ease suffering. We stand by the few who suffer from rare diseases and the millions with long-term chronic conditions.

With more than 100,000 people in 100 countries, Sanofi is transforming scientific innovation into healthcare solutions around the globe.

Sanofi, Empowering Life

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#### Sanofi Forward-Looking Statements

This press release contains forward-looking statements as defined in the Private Securities Litigation Reform Act of 1995, as amended. Forward-looking statements are statements that are not historical facts. These statements include projections and estimates regarding the marketing and other potential of the product, or regarding potential future revenues from the product. Forward-looking statements are generally identified by the words "expects", "anticipates", "believes", "intends", "estimates", "plans" and similar expressions. Although Sanofi's management believes that the expectations reflected in such forward-looking statements are reasonable, investors are cautioned that forward-looking information and statements are subject to various risks and uncertainties, many of which are difficult to predict and generally beyond the control of Sanofi, that could cause actual results and developments to differ materially from those expressed in, or implied or projected by, the forward-looking information and statements. These risks and uncertainties include among other things, unexpected regulatory actions or delays, or government regulation generally, that could affect the availability or commercial potential of the product, the fact that product may not be commercially successful, the uncertainties inherent in research and development, including future clinical data and analysis of existing clinical data relating to the product, including post marketing, unexpected safety, quality or manufacturing issues, competition in general, risks associated with intellectual property and any related future litigation and the ultimate outcome of such litigation, and volatile economic and market conditions, and the impact that COVID-19 will have on us, our customers, suppliers, vendors, and other business partners, and the financial condition of any one of them, as well as on our employees and on the global economy as a whole. Any material effect of COVID-19 on any of the foregoing could also adversely impact us. This situation is changing rapidly and additional impacts may arise of which we are not currently aware and may exacerbate other previously identified risks. The risks and uncertainties also include the uncertainties discussed or identified in the public filings with the SEC and the AMF made by Sanofi, including those listed under "Risk Factors" and "Cautionary Statement Regarding Forward-Looking Statements" in Sanofi's annual report on Form 20-F for the year ended December 31, 2020. Other than as required by applicable law, Sanofi does not undertake any obligation to update or revise any forward-looking information or statements.

#### Regeneron Forward-Looking Statements and Use of Digital Media

This press release includes forward-looking statements that involve risks and uncertainties relating to future events and the future performance of Regeneron Pharmaceuticals, Inc. ("Regeneron" or the "Company"), and actual events or results may differ materially from these forward-looking statements. Words such as "anticipate." "expect," "intend," "plan," "believe," "seek," "estimate," variations of such words, and similar expressions are intended to identify such forward-looking statements, although not all forward-looking statements contain these identifying words. These statements concern, and these risks and uncertainties include, among others, the impact of SARS-CoV-2 (the virus that has caused the COVID-19 pandemic) on Regeneron's business and its employees, collaborators, and suppliers and other third parties on which Regeneron relies, Regeneron's and its collaborators' ability to continue to conduct research and clinical programs, Regeneron's ability to manage its supply chain, net product sales of products marketed or otherwise commercialized by Regeneron and/or its collaborators (collectively, "Regeneron's Products"), and the global economy; the nature, timing, and possible success and therapeutic applications of Regeneron's Products and product candidates being developed by Regeneron and/or its collaborators (collectively, "Regeneron's Product Candidates") and research and clinical programs now underway or planned, including without limitation Dupixent<sup>®</sup> (dupilumab) for the treatment of children aged 6 to 11 years with uncontrolled moderate-to-severe asthma; the likelihood, timing, and scope of possible regulatory approval and commercial launch of Regeneron's Product Candidates and new indications for Regeneron's Products, such as Dupixent for the treatment of pediatric asthma, chronic obstructive pulmonary disease with evidence of type 2 inflammation, pediatric atopic dermatitis, eosinophilic esophagitis, bullous pemphigoid, prurigo nodularis, chronic spontaneous urticaria, chronic inducible urticaria-cold, chronic rhinosinusitis without nasal polyposis, allergic fungal rhinosinusitis, food allergies, and other potential indications; uncertainty of the utilization, market acceptance, and commercial success of Regeneron's Products and Regeneron's Product Candidates and the impact of studies (whether conducted by Regeneron or others and whether mandated or voluntary), including the study discussed in this press release, on any of the foregoing or any potential regulatory approval of Regeneron's Products and Regeneron's Product Candidates; the ability of Regeneron's collaborators, suppliers, or other third parties (as applicable) to perform manufacturing, filling, finishing, packaging, labeling, distribution, and other steps related to Regeneron's Products and Regeneron's Product Candidates; the ability of Regeneron to manage supply chains for multiple products and product candidates; safety issues resulting from the administration of Regeneron's Products (such as Dupixent) and Regeneron's Product Candidates in patients, including serious complications or side effects in connection with the use of Regeneron's Products and Regeneron's Product Candidates in clinical trials; determinations by regulatory and administrative governmental authorities which may delay or restrict Regeneron's ability to continue to develop or commercialize Regeneron's Products and Regeneron's Product Candidates, including without limitation Dupixent; ongoing regulatory obligations and oversight impacting Regeneron's Products, research and clinical programs, and business, including those relating to patient privacy; the availability and

extent of reimbursement of Regeneron's Products from third-party payers, including private payer healthcare and insurance programs, health maintenance organizations, pharmacy benefit management companies, and government programs such as Medicare and Medicaid; coverage and reimbursement determinations by such payers and new policies and procedures adopted by such payers; competing drugs and product candidates that may be superior to, or more cost effective than, Regeneron's Products and Regeneron's Product Candidates; the extent to which the results from the research and development programs conducted by Regeneron and/or its collaborators may be replicated in other studies and/or lead to advancement of product candidates to clinical trials, therapeutic applications, or regulatory approval; unanticipated expenses; the costs of developing, producing, and selling products; the ability of Regeneron to meet any of its financial projections or guidance and changes to the assumptions underlying those projections or guidance; the potential for any license, collaboration, or supply agreement, including Regeneron's agreements with Sanofi, Bayer, and Teva Pharmaceutical Industries Ltd. (or their respective affiliated companies, as applicable), to be cancelled or terminated; and risks associated with intellectual property of other parties and pending or future litigation relating thereto (including without limitation the patent litigation and other related proceedings relating to EYLEA® (aflibercept) Injection, Dupixent, Praluent<sup>®</sup> (alirocumab), and REGEN-COV<sup>™</sup> (casirivimab with imdevimab)), other litigation and other proceedings and government investigations relating to the Company and/or its operations, the ultimate outcome of any such proceedings and investigations, and the impact any of the foregoing may have on Regeneron's business, prospects, operating results, and financial condition. A more complete description of these and other material risks can be found in Regeneron's filings with the U.S. Securities and Exchange Commission, including its Form 10-K for the year ended December 31, 2020 and its Form 10-Q for the quarterly period ended March 31, 2021. Any forward-looking statements are made based on management's current beliefs and judgment, and the reader is cautioned not to rely on any forward-looking statements made by Regeneron. Regeneron does not undertake any obligation to update (publicly or otherwise) any forward-looking statement, including without limitation any financial projection or guidance, whether as a result of new information, future events, or otherwise.

Regeneron uses its media and investor relations website and social media outlets to publish important information about the Company, including information that may be deemed material to investors. Financial and other information about Regeneron is routinely posted and is accessible on Regeneron's media and investor relations website (http://newsroom.regeneron.com) and its Twitter feed (http://twitter.com/regeneron).