

Pfizer Announces Final Results from Inotuzumab Ozogamicin Pivotal Phase 3 Study in Adults with Relapsed/Refractory Acute Lymphoblastic Leukemia

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Results of INO-VATE ALL Trial Published in The New England Journal of Medicine Overall Survival Data Also Presented as a Late-Breaking Oral Presentation at EHA 2016

Pfizer Inc. (NYSE:PFE) today announced the publication of findings from the Phase 3 INO-VATE ALL study in the online issue of The New England Journal of Medicine. The study, also known as Study 1022, is an open-label, randomized, Phase 3 study evaluating the safety and efficacy of inotuzumab ozogamicin as compared with investigator-choice chemotherapy in 326 adult patients with relapsed or refractory CD22-positive acute lymphoblastic leukemia (ALL). Results showed improvement over chemotherapy on a number of measures including complete hematologic remission and progression-free survival (PFS). Updated results and newly available overall survival (OS) data were also presented as a late-breaking oral presentation (#LB2233) today at the 21st Congress of the European Hematology Association (EHA) 2016 Annual Meeting in Copenhagen, Denmark.

"Relapsed or refractory ALL is an aggressive leukemia in urgent need of new treatment options as about half of adult patients will not respond to chemotherapy or will see their disease return," said Hagop M. Kantarjian, M. D., lead study investigator and professor, The University of Texas MD Anderson Cancer Center. "The efficacy results seen in patients treated with inotuzumab ozogamicin in this study are impressive, particularly median progression-free survival, high rates of hematological remission and absence of minimal residual disease. These results suggest inotuzumab ozogamicin, if approved, could be a valuable new addition to currently available treatment options for ALL patients, including as a bridge to stem cell transplantation, which is the best chance for a cure at this stage of the disease."

The INO-VATE ALL study had two independent primary endpoints, complete response with or without hematologic remission and OS. INO-VATE ALL met its first primary endpoint of complete response, which was significantly better with inotuzumab ozogamicin compared to chemotherapy (80.7% [95% CI, 72%-88%] vs. 29.4% [95% CI, 21%-39%], P<0.001). Inotuzumab ozogamicin also significantly extended PFS compared to chemotherapy (HR: 0.45 [97.5% CI, 0.34-0.61], P<0.001; median PFS, 5.0 vs. 1.8 months, in their respective arms). The second primary endpoint of OS showed a strong trend toward longer OS for patients treated with inotuzumab ozogamicin compared to chemotherapy, but did not reach the level of statistical significance (p < 0.0104) for the trial (HR: 0.77 [97.5% CI, 0.58-1.03], one-sided P=0.0203; median OS, 7.7 months [95% CI, 6.0-9.2] vs. 6.7 months [95% CI, 4.9-8.3]). The two-year OS rate for inotuzumab ozogamicin was 23 percent (95% CI, 16%–30%) compared to chemotherapy at 10 percent (95% CI, 5%–16%).

"Adult patients with relapsed or refractory ALL have a five-year survival rate of less than 10 percent, making these patients particularly difficult to treat. To see remission rates and two-year survival rates that are more than doubled compared to standard of care chemotherapy is very gratifying. We believe these data add to the growing body of evidence that supports inotuzumab ozogamicin as an important potential treatment option in adults with relapsed or refractory ALL," said Mace Rothenberg, MD, Chief Development Officer, Oncology, Pfizer Global Product Development.

Results from INO-VATE ALL also showed patients treated with inotuzumab ozogamicin achieved high rates of minimal residual disease (MRD) negativity (78.4% [95% CI, 68%-87%; P<0.001]), and experienced a duration of response (DOR) of 4.6 months (95% CI, 3.9-5.4; HR: 0.55; P<0.034). In comparison, 28.1 percent (95% CI, 14%-47%; P<0.001) of patients treated with chemotherapy achieved MRD negativity and median DOR was 3.1 months (95% CI, 1.4-4.9; HR: 0.55; P<0.034). More patients also proceeded to stem-cell transplant with inotuzumab ozogamicin compared to standard chemotherapy (41% vs. 11%, P<0.001).

The most common adverse events (AEs) observed for both inotuzumab ozogamicin and chemotherapy were cytopenias, including febrile neutropenia (16% vs. 22%). Common nonhematologic treatment-emergent AEs with inotuzumab ozogamicin included nausea

(32%), headache (28%) and pyrexia (27%). Patients in the chemotherapy arm experienced nausea (47%), pyrexia (43%) and diarrhea (40%).

Additionally, any-grade veno-occlusive liver disease (VOD) occurred more frequently in patients treated with inotuzumab ozogamicin compared to chemotherapy (11% vs. 1%). Five patients taking inotuzumab ozogamicin developed VOD during treatment and 10 patients developed VOD after subsequent stem cell transplant. Among those taking chemotherapy, one patient developed VOD after transplant; no cases of VOD occurred during treatment with chemotherapy.

Inotuzumab ozogamicin received Breakthrough Therapy designation from the U.S. Food and Drug Administration (FDA) for ALL in October 2015. Pfizer is working closely with the FDA and other regulatory authorities with the aim of making inotuzumab ozogamicin available for adult patients with relapsed or refractory CD22-positive ALL.

About Acute Lymphoblastic Leukemia (ALL)

Acute lymphoblastic leukemia (ALL) is an aggressive type of leukemia with a poor prognosis in adults.1 The current foundational treatment is intensive, long-term chemotherapy.2 In 2016, it is estimated that 6,590 cases of ALL will be diagnosed in the United States, with about 2 in 5 cases in adults.3 Approximately 20 to 40 percent of newly diagnosed adults with ALL are cured with current treatment regimens.4 For patients with relapsed or refractory adult ALL, the five-year overall survival rate is less than 10 percent.5

About Inotuzumab Ozogamicin

Inotuzumab ozogamicin is an investigational antibody-drug conjugate (ADC) comprised of a monoclonal antibody (mAb) targeting CD22, a cell surface antigen found on cancer cells in almost all B-ALL patients, linked to a cytotoxic agent. 1,6 When inotuzumab ozogamicin binds to the CD22 antigen on malignant B-cells, it is thought to be internalized into the cell, where the cytotoxic agent calicheamicin is released to destroy the cell.7

Inotuzumab ozogamicin originates from a collaboration between Pfizer and Celltech, now UCB. Pfizer has sole responsibility for all manufacturing and clinical development activities for this molecule.

About Pfizer Oncology

Pfizer Oncology is committed to the discovery, investigation and development of innovative treatment options to improve the outlook for cancer patients worldwide. Our strong pipeline of biologics and small molecules, one of the most robust in the industry, is studied with precise focus on identifying and translating the best scientific breakthroughs into clinical application for patients across a wide range of cancers. By working collaboratively with academic institutions, individual researchers, cooperative research groups, governments, and licensing partners, Pfizer Oncology strives to cure or control cancer with breakthrough medicines, to deliver the right drug for each patient at the right time. For more information, please visit www.pfizer.com.

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DISCLOSURE NOTICE: The information contained in this release is as of June 12, 2016. Pfizer assumes no obligation to update forward-looking statements contained in this release as the result of new information or future events or developments.

This release contains forward-looking information about inotuzumab ozogamicin, an investigational oncology therapy, including its potential benefits, that involves substantial risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements. Risks and uncertainties include, among other things, the uncertainties inherent in research and development, including the ability to meet anticipated regulatory submission dates, as well as the possibility of unfavorable clinical trial results, including unfavorable new clinical data and additional analyses of existing clinical data; whether and when new drug applications may be filed in any

jurisdictions for inotuzumab ozogamicin; whether and when any such applications may be approved by regulatory authorities, which will depend on the assessment by such regulatory authorities of the benefit-risk profile suggested by the totality of the efficacy and safety information submitted; decisions by regulatory authorities regarding labeling and other matters that could affect the availability or commercial potential of inotuzumab ozogamicin; and competitive developments.

A further description of risks and uncertainties can be found in Pfizer's Annual Report on Form 10-K for the fiscal year ended December 31, 2015 and in its subsequent reports on Form 10-Q, including in the sections thereof captioned "Risk Factors" and "Forward-Looking Information That May Affect Future Results", as well as in its subsequent reports on Form 8-K, all of which are filed with the U.S. Securities and Exchange Commission and available at www.sec.govand www.pfizer.com.

1 National Cancer Institute: Adult Acute Lymphoblastic Leukemia Treatment (PDQ®) – General Information About Adult Acute Lymphoblastic Leukemia (ALL). Available at:http://www.cancer.gov/cancertopics/pdq/treatment/adultALL/HealthProfessional/page1. Accessed March 21, 2016.

2 American Cancer Society: Typical treatment of acute lymphocytic leukemia. Available at:http://www.cancer.org/cancer/leukemia-

acutelymphocyticallinadults/detailedguide/leukemia-acute-lymphocytic-treating-typicaltreatment. Accessed March 21, 2016.

3 American Cancer Society: What are the key statistics about acute lymphocytic leukemia? Available at:http://www.cancer.org/cancer/leukemiaacutelymphocyticallinadults/detailedguide/leukemia-acute-lymphocytic-key-statistics (link is external). Accessed March 21, 2016.

4 Manal Basyouni A. et al. Prognostic significance of survivin and tumor necrosis factoralpha in adult acute lymphoblastic leukemia. doi:10.1016/j.clinbiochem.2011.08.1147.

5 Fielding A. et al. Outcome of 609 adults after relapse of acute lymphoblastic leukemia (ALL); an MRC UKALL12/ECOG 2993 study. Blood. 2006; 944-950.

6 Leonard J et al. Epratuzumab, a Humanized Anti-CD22 Antibody, in Aggressive Non-Hodgkin's Lymphoma: a Phase I/II Clinical Trial Results. Clinical Cancer Research. 2004; 10: 5327-5334. 7 DiJoseph JF. Antitumor Efficacy of a Combination of CMC-544 (Inotuzumab Ozogamicin), a CD22-Targeted Cytotoxic Immunoconjugate of Calicheamicin, and Rituximab against Non-Hodgkin's B-Cell Lymphoma. Clin Cancer Res. 2006; 12: 242-250.

Media:Sally Beatty, 212-733-6566orInvestors:Ryan Crowe, 212-733-8160