Celgene’s Commitment to Safety and Patients: Risk Evaluation and Mitigation Strategies (REMS)

Celgene is resolutely committed to patients, their families, providers and public health. We firmly believe that our commitment to developing the most effective Risk Evaluation and Mitigation Strategies (REMS) and our unwavering efforts to operate these systems has allowed hundreds of thousands of patients to access our medications while preventing certain serious risks associated with embryo-fetal exposure. Our commitment to patients extends to ensuring, without exception, that other companies that utilize Celgene products subject to REMS with Elements to Assure Safe Use (ETASU) in clinical testing share our commitment to safety and implement necessary safeguards.

Overview of REMS and ETASU

REMS are patient safety programs required by the U.S. Food and Drug Administration (FDA) that are intended to “ensure that the benefits of a drug or biological product outweigh its risks.”

Under the law, a REMS may be required by the FDA as part of the approval of a new product, or for an approved product when new safety information arises. Since medicines are very different from each other, any required REMS is also different for each medicine. REMS elements can include a variety of safeguards including medication guides, patient package inserts, and communication outreach. Additionally, the FDA may require a REMS with more extensive requirements known as ETASU. Those elements can include required testing of patients before a medicine is administered, education of pharmacists and dispensing in certain health care settings.

Celgene: REMS with ETASU

Celgene has three products with REMS programs that also include ETASU: Revlimid® (lenalidomide), Pomalyst® (pomalidomide) and Thalomid® (thalidomide). The goals of these REMS are to prevent the risk of embryo exposure to Revlimid, Pomalyst, and Thalomid and to inform prescribers, patients, and pharmacists on the serious risks and safe-use conditions for these drugs.

The FDA originally approved Thalomid® with a risk management program because of the severe consequences associated with fetal exposure to the product. Although this medicine is beneficial to patients with a serious fatal disease, it comes with great risks. Even a single dose of thalidomide, the active ingredient in Thalomid®, can cause irreversible, debilitating birth defects. These severe birth defects were at the center of a worldwide health crisis in the 1950s and 1960s, and were the reason that the FDA did not approve the use of thalidomide until the 1990s, and even then until a strict risk management plan was in place. Celgene worked with the FDA to find a way to authorize use of thalidomide in a safe and responsible manner for patients with serious unmet medical needs, developing a risk management system that strictly regulates the distribution of thalidomide from beginning to end. Since 1998, when the FDA approved thalidomide with these rigorous controls, Celgene has ensured access to thalidomide for tens of thousands of patients with Erythema Nodosum Leprosum (ENL), a skin condition caused by leprosy, or newly diagnosed multiple myeloma without an incident of a severe birth defect. We also implemented the same rigorous controls for the distribution of Revlimid® and Pomalyst®, which are related medicines and believed to have similar risks.
Celgene’s REMS program and its requirements are designed to protect the public health and further Celgene’s strong interest on behalf of patients in ensuring that these products are used only under safe conditions.

Were it not for the development of REMS programs with ETASU for these products, it is unlikely that these medicines would have ever been made available to patients.

**Sale of Testing Samples to Generic Companies**

Celgene is willing to make Revlimid®, Pomalyst® and Thalomid® available to generic manufacturers for bioequivalence testing, and Celgene consistently offers and has sold samples for the purposes of such testing, subject to reasonable safety-related requirements.

For these products, multiple generic firms have filed Abbreviated New Drug Applications (ANDAs) with the FDA. A generic version of Revlimid® will be available starting in the first quarter of 2022.

**Commitment to Safety**

Celgene is resolutely committed to patients, their families, providers and public health. To date, there have been no reported congenital malformations associated with our products in over one million prescription cycles. We firmly believe that our commitment to developing highly effective REMS programs and our unwavering efforts to operate these systems have allowed hundreds of thousands of patients to access these medications while preventing the serious risks associated with embryo-fetal toxicities.

As of July 2017, there are 70 products with FDA authorized REMS programs. Of those 70 products, 42 require “Elements to Assure Safe Use” (ETASU).4
