Novartis Oncology

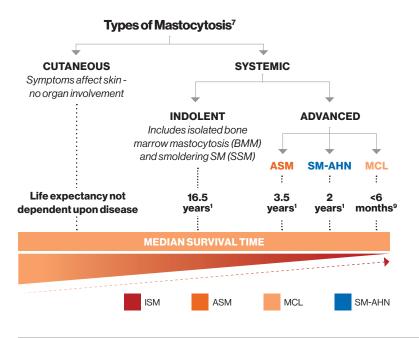
Systemic Mastocytosis Fact Sheet

What is Systemic Mastocytosis?

- · Systemic mastocytosis (SM) is a group of rare diseases in which uncontrolled growth and accumulation of mast cells (a type of white blood cell) occurs in one or more organs¹
- In patients with SM, mast cells can accumulate in multiple organ systems, including the skin, GI tract, spleen, lymph nodes and bone marrow²
- » SM can be characterized into indolent (ISM) and advanced forms. ISM is the benign form of SM and is generally associated with a good prognosis, while advanced SM can be fatal within a few years¹
- The mast cells release substances such as histamine, which can lead to symptoms including itching, fever, abdominal pain, nausea and vomiting²

A Closer Look at Advanced SM

- In advanced SM, mast cells accumulate in such high quantities that they lead to organ damage and dysfunction, bone fractures and anemia.³ Subtypes of advanced SM include aggressive systemic mastocytosis (ASM), mast cell leukemia (MCL) and SM with an associated hematologic neoplasm (SM-AHN)²
- Treatment is tailored towards each individual patient and their disease⁴ •
- The major goal of treatment is to control mast cell growth and expansion⁴

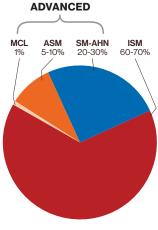


SM affects between 1 in 2000 and 1 in 40 people worldwide

The uncontrolled proliferation of mast cells is caused in many people by a KIT mutation.6 D816V is the most common mutation in SM, occurring in

of SM patients⁶

Percentage of SM Cases by Subtype⁸



1. Lim KH, Tefferi A, Lasho T, et al. Blood. 2009;113:5727-5736. 2. Arock M, Akin C, Hermine O, et al. Eur J Haematology. 2015;94(6):474-494. 3. Verstovsek S. Eur J Haematology. 2013;90(2):89-98. 4. Valent P. Am J of Cancer Res. 2013;3(2):159. 5. Orpha.net. http://www.orpha. net/consor/cgi-bin/OC_Exp.php?Expert=2467. Accessed February 1, 2017. 6. Garcia-Montero AC, Jara-Acevedo M, Teodosi C, et al. Blood. 2006;108(7):2366-2372. 7. Pardanani A. Am J Hematol. 2015;90:251-262. 8. Gotlib J, Kluin-Nelemans HC, George TI, et al. Supplement to: Efficacy and safety of midostaurin in advanced systemic mastocytosis. N Engl J Med. 2016;374:2530-2541. 9. Georgin-Lavialle S, Lhermitte L, Dubreuil P, et al. *Blood*. 2013;121:1285-1295.

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G-PKC-1155714

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