

# UNDERSTANDING MULTIPLE MYELOMA TREATMENT OPTIONS & GUIDELINES

WITH NO CURATIVE THERAPIES, TREATMENTS ARE DESIGNED TO: Relieve & manage symptoms

Slow disease progression

Prolong remissions

There is no single set treatment and most treatment plans include a combination of therapies<sup>2</sup>.

### Candidate for stem cell transplant?

Patients with active disease are first assessed as candidates for stem cell transplantation.

No Yes

Age or co-morbidities may mean risks outweigh the benefits<sup>3</sup>.

Indicated for patients with adequate organ function<sup>1,4</sup>.

#### **First-line therapy**

Similar whether transplant candidate or not, patients are treated with various combinations of proteasome inhibitors, immunomodulatory drugs and corticosteroids. May also include chemotherapy agents<sup>2,5</sup>.

## Patient responds to first-line therapy?

Yes No (Inadequate response)

Patient sometimes given longer-term "maintenance" treatment, if appropriate<sup>6</sup>. The patient experiences no response or a relapse (when the cancer returns)<sup>1</sup>.

Most people eventually experience a relapse. Some also become refractory, which means they stop responding to treatment and still have myeloma cells in their bone marrow<sup>1</sup>.

CLASS OF DRUGS	DEFINITIONS <sup>5,7,8</sup>
Chemotherapy	Destroys rapidly dividing myeloma cells
Corticosteroids	Have anti-tumor properties; trigger the death of myeloma cells
Immunomodulatory Drugs	Prompt a patient's immune system to destroy myeloma cells
Targeted Therapies	Address specific abnormalities within cancer cells that contribute to cancer growth

# Patients begin second-line therapy.

If > 6 months of stable response, may consider repeating first-line therapy

If < 6 months of stable response, different drugs or combination prescribed

Such therapies may include immunomodulatory or proteasome inhibitor-based treatment regimens, combined in some cases with chemotherapy, corticosteroids or other agents<sup>2,7</sup>.

Throughout the multiple myeloma journey, a treatment team continues to monitor and introduces different therapy combinations to address treatment resistance and/or disease progression.

1. The Leukemia and Lymphoma Society. Myeloma. 2013;1:14. 2. Multiple Myeloma Treatment Overview. Multiple Myeloma Research Foundation. http://www.themmrf.org/assets/living-with-multiple-myeloma/brochure/treatment-brochure.pdf. Accessed September 2014. 3. Gertz MA and Dingli D. How We Manage Autologous Stem Cell Transplantation for Patients with Multiple Myeloma. Blood. 2014; 124(6): 882-90. 4. Mohty, M and Harousseau, JL. Treatment of Autologous Stem Cell Transplant-Eligible Multiple Myeloma Patients: Ten Questions and Answers. Haematologica. 2014; 99(3):408-416. 5. National Cancer Institute. What You Need to Know About Multiple Myeloma. http://www.cancer.gov/cancertopics/wyntk/myeloma. Accessed November 2013. 6. American Cancer Society. Treatment Options for Multiple Myeloma, by Stage. http://www.cancer.gov/cancer/multiplemyeloma/detailedguide/multiple-myeloma-treating-by-stage. Accessed September 2014. 7. National Cancer Institute. Targeted Therapies for Multiple Myeloma Tutorial. http://www.cancer.gov/cancertopics/understandingcancer/targetedtherapies/multiplemyeloma\_htmlcourse/page4. Accessed September 2014. 8. Maes K, et al. Epigenetic Modulating Agents as a New Therapeutic Approach in Multiple Myeloma. Cancers. 2013; 5:430-461.

