

# Rounds with the Investigators

National Research Leaders Provide  
Their Perspectives on the Management  
of Actual Patients with Multiple Myeloma



## *A Case-Based Roundtable Discussion*

### Co-Chair

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### Moderator and Chair

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### Contents

2 Audio CDs

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# *Rounds with the Investigators: National Research Leaders Provide Their Perspectives on the Management of Actual Patients with Multiple Myeloma*

## A Continuing Medical Education Audio Series

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### OVERVIEW OF ACTIVITY

Multiple myeloma (MM) is a plasma cell neoplasm that accounts for approximately 10% of all hematologic cancers and carries with it the worst death to new cases ratio (3:4) among all the blood cancer subtypes. Patients with smoldering (asymptomatic) myeloma may be cared for by observation only because the course of disease is often indolent for many years without therapy. However, patients with more advanced, active disease require immediate induction therapy in an effort to prepare eligible candidates for autologous stem cell transplant (ASCT). Optimal initial induction therapy for both ASCT candidates and those not eligible remains an area of clinical controversy, and multiple acceptable treatment options appear to merit consideration. Recent clinical research demonstrates an abundance of treatment options now available to patients with both newly diagnosed and relapsed or refractory MM.

To provide clinicians with therapeutic strategies to address the disparate needs of patients with MM, the *Rounds with the Investigators* audio series employs an innovative case-based approach that gathers the perspectives of leading MM investigators and community oncologists as they explore the intricacies of making treatment decisions. Upon completion of this CME activity, medical oncologists and hematologists should be able to formulate an up-to-date and more complete approach to the care of patients with MM.

### LEARNING OBJECTIVES

- Employ case-based learning to effectively implement evidence-based diagnostic and therapeutic approaches for patients with newly diagnosed and relapsed/refractory MM.
- Recognize and apply essential patient care considerations that enable the successful delivery of proteasome inhibitor- and/or IMiD-containing systemic therapy for MM.
- Adhere to published guidelines and expert recommendations when selecting frequency of administration and total duration of bisphosphonates for patients with MM.
- Appropriately identify and counsel patients with MM who may experience quantitative and qualitative benefit from stem cell transplantation.
- Recognize treatment-associated side effects and offer patients acceptable alternative dosing/administration and/or supportive management interventions to address them.
- Use biomarkers to assess risk for patients with MM, and recommend systemic treatment commensurate with prognosis and likelihood of therapeutic response in the induction, consolidation and maintenance settings.
- Recall emerging efficacy and safety data with newer-generation IMiDs and proteasome inhibitors currently under investigation in MM.

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Submit them to us via Facebook or Twitter  
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## TRACKS 1-20

### ROUNDTABLE DISCUSSION WITH RAFAEL FONSECA, MD AND RAVI VIJ, MD

- Track 1 Case discussion:** A 51-year-old woman with a painful, disabling hip lesion is diagnosed with ISS Stage II multiple myeloma (MM) with multiple bone lesions
- Track 2** Short- and long-term therapeutic options for transplant-eligible patients
- Track 3** Reduction in bortezomib-associated peripheral neuropathy: Subcutaneous versus intravenous administration and weekly versus twice-weekly schedule
- Track 4** Management of impending bone fractures
- Track 5** Cyclophosphamide, bortezomib and dexamethasone (CyBORd) with subcutaneous bortezomib as pretransplant therapy
- Track 6** Cereblon: A direct protein target for the immunomodulatory and antiproliferative actions of lenalidomide and pomalidomide
- Track 7** Improved long-term outcomes with post-transplant lenalidomide maintenance therapy
- Track 8** Risk of second primary cancers with post-transplant maintenance lenalidomide
- Track 9** Efficacy of the novel proteasome inhibitor carfilzomib in MM
- Track 10** Carfilzomib-associated toxicities
- Track 11** Activity and tolerability of the oral proteasome inhibitor MLN9708
- Track 12 Case discussion:** A 79-year-old man with hyperdiploid MM with 80% plasma cells in the bone marrow, trisomy of chromosomes 7, 9 and 11 and multiple lytic bone lesions
- Track 13** Viewpoints on duration of treatment and antimyeloma effects of zoledronic acid
- Track 14** Preemptive dose reduction and duration of antimyeloma therapy for elderly patients with MM
- Track 15 Case discussion:** A 74-year-old man with a 3-cm right femoral neck lytic lesion diagnosed as a kappa-restricted plasmacytoma has 30% plasma cells in the marrow and an 11;14 translocation and 1q duplication
- Track 16** Assessment of cytogenetic abnormalities in the treatment of MM
- Track 17** Studies of rituximab-based therapy for patients with CD20-positive MM
- Track 18** Novel monoclonal antibodies in combination with lenalidomide- or bortezomib-based therapy
- Track 19** New options for patients with amyloidosis
- Track 20** Consideration of intravenous versus subcutaneous bortezomib-based therapy for patients with MM and amyloidosis

## TRACKS 1-23

### ROUNDTABLE DISCUSSION WITH JEFFREY L WOLF, MD AND JEFFREY A ZONDER, MD

- Track 1 Case discussion:** An 86-year-old man with ISS Stage I IgG lambda MM, right femoral fracture and multiple lytic bone lesions receives dose-adjusted melphalan/prednisone/ bortezomib (MPV)
- Track 2** Perspectives on the use of subcutaneous bortezomib
- Track 3** Consideration for and duration of maintenance therapy for patients with MM
- Track 4** Clinical experience with injection site discomfort and hyperpigmentation with subcutaneous bortezomib administration
- Track 5** Preemptive dose reduction for older patients with myeloma
- Track 6** Choice of alkylating agent to combine with novel agents
- Track 7** Use of an attenuated RVD regimen for older patients with MM
- Track 8 Case discussion:** A 60-year-old man with mild anemia, weight loss and a 5-cm right clavicular mass is diagnosed with ISS Stage I lambda light chain MM
- Track 9** IFM/DFCI 2009: A Phase III study of RVD with stem cell transplant as initial therapy versus stem cell transplant at first relapse in the initial management of MM
- Track 10** Perspectives on the inclusion of radiation therapy with systemic treatment for a patient with MM and a clavicular lesion
- Track 11** Management of smoldering myeloma
- Track 12 Case discussion:** An 83-year-old man with anemia, hypercalcemia and acute renal failure is diagnosed with ISS Stage III MM and receives MPV
- Track 13** Role of bortezomib for patients with acute renal failure secondary to MM
- Track 14** Dose-reduced lenalidomide for patients with renal dysfunction
- Track 15 Case discussion:** A 79-year-old woman with MM initially treated with MPV has progressive renal failure
- Track 16** Efficacy and toxicity of the third-generation IMiD pomalidomide in patients with prior exposure to lenalidomide and thalidomide
- Track 17** Activity and reduced rates of peripheral neuropathy with the second-generation proteasome inhibitor carfilzomib in relapsed/refractory and bortezomib-naïve MM
- Track 18** Initial Phase I/II study results with the novel proteasome inhibitor MLN9708 as a single agent for relapsed/refractory MM and in combination with lenalidomide and dexamethasone for previously untreated MM
- Track 19 Case discussion:** A 74-year-old man with a solitary plasmacytoma with monoclonal expression of kappa light chain
- Track 20** Management of solitary plasmacytomas
- Track 21** Radiation therapy alone or in combination with lenalidomide- or bortezomib-based chemotherapy in the treatment of solitary plasmacytomas
- Track 22** Late-line therapy considerations for patients with relapsed/refractory plasmacytoma
- Track 23** Mechanism of action and preliminary efficacy data with elotuzumab in relapsed/refractory MM

## SELECT PUBLICATIONS

- Argyriou AA et al. **Bortezomib-induced peripheral neuropathy in multiple myeloma: A comprehensive review of the literature.** *Blood* 2008;112(5):1593-9.
- Attal M et al. **Maintenance treatment with lenalidomide after transplantation for MYELOMA: Final analysis of the IFM 2005-02.** *Proc ASH* 2010;**Abstract 310.**
- Berdeja JG et al. **Phase 1/2 study of oral MLN9708, a novel, investigational proteasome inhibitor, in combination with lenalidomide and dexamethasone in patients with previously untreated multiple myeloma (MM).** *Proc ASH* 2011;**Abstract 479.**
- Bringhen S et al. **Efficacy and safety of once-weekly bortezomib in multiple myeloma patients.** *Blood* 2010;116(23):4745-53.
- Clark WF et al. **Plasma exchange when myeloma presents as acute renal failure: A randomized, controlled trial.** *Ann Intern Med* 2005;143(11):777-84.
- Hutchison CA et al. **Immunoglobulin free light chain levels and recovery from myeloma kidney on treatment with chemotherapy and high cut-off haemodialysis.** *Nephrol Dial Transplant* 2012;[Epub ahead of print].
- Ito T et al. **Identification of a primary target of thalidomide teratogenicity.** *Science* 2010;327(5971):1345-50.
- Jakubowiak AJ et al. **Carfilzomib, lenalidomide, and dexamethasone in newly diagnosed multiple myeloma: Initial results of phase I/II MMRC trial.** *Proc ASH* 2010;**Abstract 862.**
- Kumar SK et al. **Lenalidomide, cyclophosphamide, and dexamethasone (CRd) for light-chain amyloidosis: Long-term results from a phase 2 trial.** *Blood* 2012;119(21):4860-7.
- Kumar S et al. **Weekly dosing of the investigational oral proteasome inhibitor MLN9708 in patients with relapsed and/or refractory multiple myeloma: Results from a phase 1 dose-escalation study.** *Proc ASH* 2011;**Abstract 816.**
- Leleu X et al. **Phase 2 study of 2 modalities of pomalidomide (CC4047) plus low-dose dexamethasone as therapy for relapsed multiple myeloma. IFM 2009-02.** *Proc ASH* 2010;**Abstract 859.**
- Lonial S et al. **Elotuzumab in combination with lenalidomide and low-dose dexamethasone in relapsed or refractory multiple myeloma.** *J Clin Oncol* 2012;30(16):1953-9.
- Lopez-Girona A et al. **Cereblon is a direct protein target for immunomodulatory and antiproliferative activities of lenalidomide and pomalidomide.** *Leukemia* 2012;[Epub ahead of print].
- Martinez-Lopez J et al. **Long-term prognostic significance of response in multiple myeloma after stem cell transplantation.** *Blood* 2011;118(3):529-34.
- Mateos MV et al. **Smoldering multiple myeloma (SMM) at high-risk of progression to symptomatic disease: A Phase III, randomized, multicenter trial based on lenalidomide-dexamethasone (len-dex) as induction therapy followed by maintenance therapy with len alone vs no treatment.** *Proc ASH* 2011;**Abstract 991.**
- McCarthy PL et al. **Lenalidomide after stem-cell transplantation for multiple myeloma.** *N Engl J Med* 2012;366(19):1770-81.
- Mikhael JR et al. **Cyclophosphamide-bortezomib-dexamethasone (CyBORd) produces rapid and complete hematologic response in patients with AL amyloidosis.** *Blood* 2012;119(19):4391-4.
- Moreau P et al. **Subcutaneous versus intravenous administration of bortezomib in patients with relapsed multiple myeloma: A randomised, phase 3, non-inferiority study.** *Lancet Oncol* 2011;12(5):431-40.
- Orlowski RZ et al. **Randomized phase III study of pegylated liposomal doxorubicin plus bortezomib compared with bortezomib alone in relapsed or refractory multiple myeloma: Combination therapy improves time to progression.** *J Clin Oncol* 2007;25(25):3892-901.
- Palumbo A, Anderson K. **Multiple myeloma.** *New Engl J Med* 2011;364(11):1046-60.
- Randomized trial of lenalidomide, bortezomib, dexamethasone vs high-dose treatment with SCT in MM patients up to age 65 (IFM/DFCI2009).** [NCT01208662](#)
- Richardson PG et al. **Investigational agent MLN9708, an oral proteasome inhibitor, in patients (Pts) with relapsed and/or refractory multiple myeloma (MM): Results from the expansion cohorts of a Phase 1 dose-escalation study.** *Proc ASH* 2011;**Abstract 301.**
- Zhu YX et al. **Cereblon expression is required for the antimyeloma activity of lenalidomide and pomalidomide.** *Blood* 2011;118(18):4771-9.

*Rounds with the Investigators: National Research Leaders Provide Their Perspectives on the Management of Actual Patients with Multiple Myeloma*

QUESTIONS (PLEASE CIRCLE ANSWER):

1. The results of the IFM and CALGB trials failed to demonstrate an improvement in progression-free survival among patients with myeloma receiving maintenance lenalidomide compared to placebo after transplant.
  - a. True
  - b. False
2. The oral proteasome inhibitor MLN9708 in combination with lenalidomide and dexamethasone produced a response rate approaching 100% for patients with previously untreated MM.
  - a. True
  - b. False
3. The irreversible proteasome inhibitor carfilzomib has generated high-quality responses and reduced rates of \_\_\_\_\_.
  - a. Hyperglycemia
  - b. Dyspnea
  - c. Neuropathy
4. The MRC Myeloma IX study reported a survival advantage for patients with newly diagnosed myeloma who received zoledronic acid.
  - a. True
  - b. False
5. In a recent review article by Drs Palumbo and Anderson in *The New England Journal of Medicine*, the authors contend that the novel agents bortezomib and lenalidomide should not be dose reduced at the initiation of treatment for older patients.
  - a. True
  - b. False
6. A publication by Fonseca and colleagues in *Blood* reported rapid and complete responses with CyBorD in patients with amyloidosis.
  - a. True
  - b. False
7. The Phase III IFM/DFCI 2009 study is evaluating \_\_\_\_\_ with stem cell transplant as initial therapy versus stem cell transplant at first relapse.
  - a. CyBorD
  - b. Melphalan/prednisone/thalidomide
  - c. Lenalidomide/dexamethasone
  - d. RVD
8. Results published by Hutchison and colleagues indicated that patients with dialysis-dependent acute renal failure secondary to myeloma who received chemotherapy and extended hemodialysis with a high cutoff filter sustained reductions in serum free light chain concentrations and recovered independent renal function.
  - a. True
  - b. False
9. Preliminary data suggest that patients with myeloma who have a high level of cereblon in their bone marrow respond better to IMiDs than those with little or no cereblon in their bone marrow.
  - a. True
  - b. False
10. Which of the following can be attributed to the use of subcutaneous weekly bortezomib administration compared to standard twice-weekly intravenous administration?
  - a. Less neuropathy
  - b. Equivalent efficacy
  - c. Both a and b

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Research To Practice is committed to providing valuable continuing education for oncology clinicians, and your input is critical to helping us achieve this important goal. Please take the time to assess the activity you just completed, with the assurance that your answers and suggestions are strictly confidential.

**PART 1 — Please tell us about your experience with this educational activity**

**How would you characterize your level of knowledge on the following topics?**

	4 = Excellent	3 = Good	2 = Adequate	1 = Suboptimal
	<b>BEFORE</b>		<b>AFTER</b>	
<b>IFN and CALGB studies of post-transplant maintenance lenalidomide</b>	4	3	2	1
<b>Effects of bortezomib schedule and route of administration on peripheral neuropathy</b>	4	3	2	1
<b>Potential roles of novel proteasome inhibitors (MLN9708, carfilzomib) and the novel IMiD pomalidomide in MM</b>	4	3	2	1
<b>IFM/DFCI 2009: A Phase III study of RVD and stem cell transplant as initial therapy versus stem cell transplant at first relapse</b>	4	3	2	1
<b>Bortezomib-based therapy and extended high-cutoff hemodialysis as treatment for acute renal failure secondary to MM</b>	4	3	2	1

**Was the activity evidence based, fair, balanced and free from commercial bias?**

Yes       No

If no, please explain: .....

**Please identify how you will change your practice as a result of completing this activity (select all that apply).**

- This activity validated my current practice
- Create/revise protocols, policies and/or procedures
- Change the management and/or treatment of my patients
- Other (please explain): .....

**If you intend to implement any changes in your practice, please provide 1 or more examples:**

.....  
 .....

**The content of this activity matched my current (or potential) scope of practice.**

Yes       No

If no, please explain: .....

**Please respond to the following learning objectives (LOs) by circling the appropriate selection:**

4 = Yes    3 = Will consider    2 = No    1 = Already doing    N/M = LO not met    N/A = Not applicable

**As a result of this activity, I will be able to:**

- Employ case-based learning to effectively implement evidence-based diagnostic and therapeutic approaches for patients with newly diagnosed and relapsed/refractory MM. . . . . 4 3 2 1 N/M N/A
- Recognize and apply essential patient care considerations that enable the successful delivery of proteasome inhibitor- and/or IMiD-containing systemic therapy for MM. . . . . 4 3 2 1 N/M N/A
- Adhere to published guidelines and expert recommendations when selecting frequency of administration and total duration of bisphosphonates for patients with MM. . . . . 4 3 2 1 N/M N/A
- Appropriately identify and counsel patients with MM who may experience quantitative and qualitative benefit from stem cell transplantation. . . . . 4 3 2 1 N/M N/A
- Recognize treatment-associated side effects and offer patients acceptable alternative dosing/administration and/or supportive management interventions to address them. . . . . 4 3 2 1 N/M N/A
- Use biomarkers to assess risk for patients with MM, and recommend systemic treatment commensurate with prognosis and likelihood of therapeutic response in the induction, consolidation and maintenance settings. . . . . 4 3 2 1 N/M N/A
- Recall emerging efficacy and safety data with newer-generation IMiDs and proteasome inhibitors currently under investigation in MM. . . . . 4 3 2 1 N/M N/A

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Please describe any clinical situations that you find difficult to manage or resolve that you would like to see addressed in future educational activities:

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If no, please explain:

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Yes, I am willing to participate in a follow-up survey.  
 No, I am not willing to participate in a follow-up survey.

**PART 2 — Please tell us about the faculty and moderator for this educational activity**

	4 = Excellent	3 = Good	2 = Adequate	1 = Suboptimal				
<b>Faculty</b>	<b>Knowledge of subject matter</b>				<b>Effectiveness as an educator</b>			
Rafael Fonseca, MD	4	3	2	1	4	3	2	1
Ravi Vij, MD	4	3	2	1	4	3	2	1
Jeffrey L Wolf, MD	4	3	2	1	4	3	2	1
Jeffrey A Zonder, MD	4	3	2	1	4	3	2	1
<b>Moderator</b>	<b>Knowledge of subject matter</b>				<b>Effectiveness as an educator</b>			
Neil Love, MD	4	3	2	1	4	3	2	1

Please recommend additional faculty for future activities:

Other comments about the faculty and moderator for this activity:

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U P D A T E

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