

## Darzalex® (daratumumab) (Intravenous)

-E-

Document Number: IC-0383

Last Review Date: 03/31/2023

Date of Origin: 01/07/2019

Dates Reviewed: 01/2019, 04/2019, 07/2019, 10/2019, 11/2019, 01/2020, 04/2020, 07/2020, 10/2020, 01/2021, 05/2021, 07/2021, 10/2021, 01/2022, 04/2022, 07/2022, 10/2022, 01/2023, 04/2023

### I. Length of Authorization <sup>1,16,17,19</sup>

Coverage will be provided for 6 months and may be renewed (unless otherwise specified).

- Use for newly diagnosed multiple myeloma in combination with bortezomib, thalidomide, and dexamethasone may not be renewed.
- Use for newly diagnosed multiple myeloma in combination with bortezomib, lenalidomide and dexamethasone may be renewed for up to a maximum of 2 years of maintenance therapy.
- Use for newly diagnosed or relapsed multiple myeloma in combination with cyclophosphamide, bortezomib and dexamethasone may be renewed for up to a maximum of 80 weeks (*32 weeks of induction therapy and 48 weeks of maintenance therapy*).
- Use for newly diagnosed multiple myeloma in combination with carfilzomib, lenalidomide, and dexamethasone may be renewed for up to a maximum of 32 weeks.

### II. Dosing Limits

#### A. Quantity Limit (max daily dose) [NDC Unit]:

- Darzalex 100 mg single-dose vial for injection: Up to 3 vials per dose
  - *Weekly Weeks 1 to 8, then every two weeks Weeks 9 to 24, then every four weeks Week 25 onwards*
- Darzalex 400 mg single dose vial for injection: Up to 4 vials per dose
  - *Weekly Weeks 1 to 8, then every two weeks Weeks 9 to 24, then every four weeks Week 25 onwards*

#### B. Max Units (per dose and over time) [HCPCS Unit]:

- Up to 180 billable units per dose

- Weekly Weeks 1 to 8, then every two weeks Weeks 9 to 24, then every four weeks Week 25 onwards

### III. Initial Approval Criteria <sup>1</sup>

Coverage is provided in the following conditions:

- Patient is at least 18 years of age; **AND**

#### Universal Criteria

- Therapy will not be used in combination with other anti-CD38 therapies (i.e., daratumumab and hyaluronidase-fihj, isatuximab, etc.); **AND**

#### Multiple Myeloma † $\Phi$ 1-11,13,14,16-19,15e-17e

- Used in the treatment of newly diagnosed disease in patients who are ineligible for autologous stem cell transplant (ASCT) in combination with ONE of the following regimens:

- Lenalidomide and dexamethasone; **AND**

- Use of daratumumab in combination with lenalidomide and dexamethasone will be restricted to patients with a contraindication or intolerance to bortezomib/lenalidomide/dexamethasone; **OR**

- Bortezomib, melphalan and prednisone; **OR**
- Cyclophosphamide, bortezomib, and dexamethasone; **OR**

- Used in the treatment of newly diagnosed disease in patients who are eligible for autologous stem cell transplant (ASCT) in combination with ONE of the following regimens:

- Bortezomib, lenalidomide, and dexamethasone; **AND**

- Patient must use bortezomib/lenalidomide/dexamethasone (without daratumumab); **OR**

- Bortezomib, thalidomide, and dexamethasone (VTd); **OR**
- Cyclophosphamide, bortezomib, and dexamethasone; **OR**
- Carfilzomib, lenalidomide, and dexamethasone; **AND**

- Use of daratumumab in combination with carfilzomib, lenalidomide, and dexamethasone will be restricted to patients with a contraindication or intolerance to one of the following regimens:
  - Bortezomib/lenalidomide/dexamethasone
  - Bortezomib/cyclophosphamide/dexamethasone
  - Bortezomib/doxorubicin/dexamethasone
  - Bortezomib/thalidomide/dexamethasone
  - Daratumumab/bortezomib/thalidomide/dexamethasone; **OR**

- Used for disease relapse after 6 months following primary induction therapy with the same regimen in combination with ONE of the following regimens:
  - Lenalidomide and dexamethasone for non-transplant candidates; **OR**
  - Cyclophosphamide, bortezomib, and dexamethasone; **OR**
- Used as subsequent therapy for relapsed or refractory/progressive disease in combination with dexamethasone and ONE of the following:
  - Selinexor; **AND**
    - Used after at least three prior lines of therapy including a proteasome inhibitor (e.g., bortezomib, carfilzomib, etc.) and an immunomodulatory agent (e.g., lenalidomide, pomalidomide, etc.); **OR**
    - Patient is double-refractory to a proteasome inhibitor and an immunomodulatory agent; **OR**
  - Lenalidomide; **OR**
  - Bortezomib; **OR**
  - Carfilzomib; **OR**
  - Cyclophosphamide and bortezomib; **OR**
- Used in combination with pomalidomide and dexamethasone after prior therapy with lenalidomide and a proteasome inhibitor (bortezomib, carfilzomib, etc.); **OR**
- Used as single agent therapy; **AND**
  - Patient received at least three prior lines of therapy including a proteasome inhibitor (e.g., bortezomib, carfilzomib, etc.) and an immunomodulatory agent (e.g., lenalidomide, pomalidomide, etc.); **OR**
  - Patient is double-refractory to a proteasome inhibitor and an immunomodulatory agent; **OR**
- Used as maintenance therapy for symptomatic disease in transplant candidates; **AND**
  - Used as single agent therapy; **AND**
    - Used after response to primary myeloma therapy; **OR**
    - Used for response or stable disease following an autologous hematopoietic cell transplant (HCT); **OR**
    - Used for response or stable disease following a tandem autologous or allogeneic HCT for high risk\* patients

*\*High-risk as defined by the Revised International Staging System for Multiple Myeloma is the presence of del(17p) and/or translocation t(4;14) and/or translocation t(14;16). This is not an all-inclusive list. Refer to the NCCN Multiple Myeloma Guidelines for additional risk factors.*

### **Systemic Light Chain Amyloidosis ‡ 2,12,15**

- Used as single agent therapy; **AND**
- Used for the treatment of relapsed/refractory disease

Preferred therapies and recommendations are determined by review of clinical evidence. NCCN category of recommendation is taken into account as a component of this review. Regimens deemed equally efficacious (i.e., those having the same NCCN categorization) are considered to be therapeutically equivalent.

† FDA Approved Indication(s); ‡ Compendia recommended indication(s); Ⓢ Orphan Drug

#### IV. Renewal Criteria <sup>1,2,16,17,19</sup>

Coverage can be renewed based upon the following criteria:

- Patient continues to meet universal and other indication-specific relevant criteria such as concomitant therapy requirements (not including prerequisite therapy), performance status, etc. identified in section III; **AND**
- Disease response with treatment as defined by stabilization of disease or decrease in size of tumor or tumor spread; **AND**
- Absence of unacceptable toxicity from the drug. Examples of unacceptable toxicity include: severe infusion reactions including anaphylactic reactions, neutropenia, thrombocytopenia, etc.; **AND**

#### Multiple Myeloma

- Use for newly diagnosed disease in combination with bortezomib, thalidomide, and dexamethasone may not be renewed.
- Use for newly diagnosed disease in combination with bortezomib, lenalidomide and dexamethasone may be renewed for up to a maximum of 2 years of maintenance therapy.
- Use for newly diagnosed or relapsed disease in combination with cyclophosphamide, bortezomib and dexamethasone may be renewed for up to a maximum of 80 weeks (*32 weeks of induction therapy and 48 weeks of maintenance therapy*).
- Use for newly diagnosed disease in combination with carfilzomib, lenalidomide, and dexamethasone may be renewed for up to a maximum of 32 weeks.

#### V. Dosage/Administration <sup>1,12,16-19</sup>

Indication	Dose
Multiple Myeloma	<u>Newly diagnosed disease in patients eligible for ASCT in combination with bortezomib, thalidomide and dexamethasone</u>
	<ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion in a 4 week cycle:               <ul style="list-style-type: none"> <li>▪ Induction –                   <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 8 (eight doses; cycles 1 and 2)</li> <li>– Every two weeks Weeks 9 to 16 (four doses; cycles 3 and 4)</li> </ul> <i>Stop for high dose chemotherapy and ASCT</i> </li> <li>▪ Consolidation –                   <ul style="list-style-type: none"> <li>– Every two weeks Weeks 1 to 8 (four doses; cycles 5 and 6)</li> </ul> </li> </ul> </li> </ul>

#### DARZALEX® -E- (daratumumab) Prior Auth Criteria

Proprietary Information. Restricted Access – Do not disseminate or copy without approval.

©2023, Magellan Rx Management

	<p><u>Newly diagnosed disease in patients eligible for ASCT in combination with bortezomib, lenalidomide and dexamethasone</u></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion as follows:</li> <li>▪ Induction – <b>3 week cycle</b> <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 12 (twelve doses; cycles 1 to 4)</li> </ul> </li> <li>▪ Consolidation – <i>(after ASCT)</i> – <b>3 week cycle</b> <ul style="list-style-type: none"> <li>– Every 3 weeks Weeks 13 to 18 (two doses; cycles 5 and 6)</li> </ul> </li> <li>▪ Maintenance – <b>4 week cycle</b> <ul style="list-style-type: none"> <li>– Every 4 or 8 weeks Weeks 1 to 104 for a maximum of 2 years of maintenance treatment</li> </ul> </li> </ul>
	<p><u>Newly diagnosed disease in patients eligible for ASCT in combination with carfilzomib, lenalidomide and dexamethasone</u></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion in a 4 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 8 (eight doses; cycles 1 and 2)</li> <li>– Every two weeks Weeks 9 to 24 (eight doses; cycles 3 to 6)</li> <li>– Every four weeks Weeks 25 to 32 (two doses; cycles 7 and 8)</li> </ul> </li> </ul>
	<p><u>Newly diagnosed disease in patients ineligible for ASCT in combination with bortezomib, melphalan and prednisone</u></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion in a 6 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 6 (six doses; cycle 1)</li> <li>– Every three weeks Weeks 7 to 54 (16 doses; cycles 2 to 9)</li> <li>– Every four weeks Week 55 onwards (cycle 10 and beyond)</li> </ul> </li> </ul> <p><i>Treat until disease progression or unacceptable toxicity</i></p>
	<p><u>Newly diagnosed OR relapsed disease in combination with cyclophosphamide, bortezomib and dexamethasone</u></p> <p>Induction</p> <ul style="list-style-type: none"> <li>▪ 8 mg/kg body weight given as an intravenous infusion on days 1 and 2 (Week 1; total 2 doses)</li> <li>▪ Followed by 16 mg/kg body weight given as an intravenous infusion in a 4 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 2 to 8 (seven doses; cycles 1 and 2)</li> <li>– Every two weeks Weeks 9 to 24 (eight doses; cycles 3 to 6)</li> <li>– Every four weeks Weeks 25 to 32 (two doses; cycles 7 and 8)</li> </ul> </li> </ul> <p>Maintenance <i>(after ASCT)</i></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion every 4 weeks for up to 12 cycles (48 weeks)</li> </ul>
	<p><u>Treatment as one of the following:</u></p> <ul style="list-style-type: none"> <li>• Monotherapy for patients with relapsed/refractory multiple myeloma</li> <li>• Combination therapy with lenalidomide and low-dose dexamethasone for newly diagnosed patients ineligible for ASCT</li> <li>• Combination therapy with lenalidomide, pomalidomide, or selinexor AND low-dose dexamethasone in patients with relapsed or refractory/progressive disease</li> </ul> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion in a 4 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 8 (eight doses; cycles 1 and 2)</li> <li>– Every two weeks Weeks 9 to 24 (eight doses; cycles 3 to 6)</li> <li>– Every four weeks Week 25 onwards (cycle 7 and beyond)</li> </ul> </li> </ul> <p><i>Treat until disease progression or unacceptable toxicity</i></p>

	<p><u>Combination therapy with carfilzomib and dexamethasone for relapsed or refractory/progressive disease</u></p> <ul style="list-style-type: none"> <li>▪ 8 mg/kg body weight given as an intravenous infusion on days 1 and 2 (Week 1; total 2 doses)</li> <li>▪ Followed by 16 mg/kg body weight given as an intravenous infusion in a 4 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 2 to 8 (seven doses; cycles 1 and 2)</li> <li>– Every two weeks Weeks 9 to 24 (eight doses; cycles 3 to 6)</li> <li>– Every four weeks Week 25 onwards (cycle 7 and beyond)</li> </ul> </li> </ul> <p><i>Treat until disease progression or unacceptable toxicity</i></p>
	<p><u>Combination therapy with bortezomib and dexamethasone for relapsed or refractory/progressive disease</u></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion in a 3 week cycle: <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 9 (nine doses; cycles 1 to 3)</li> <li>– Every three weeks Weeks 10 to 24 (five doses; cycles 4 to 8)</li> <li>– Every four weeks Week 25 onwards (cycle 9 and beyond)</li> </ul> </li> </ul> <p><i>Treat until disease progression or unacceptable toxicity</i></p>
	<p><u>Monotherapy as maintenance treatment for transplant candidates</u></p> <ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion every 4 weeks until disease progression or unacceptable toxicity</li> </ul>
Systemic Light Chain Amyloidosis	<ul style="list-style-type: none"> <li>▪ 16 mg/kg body weight given as an intravenous infusion: <ul style="list-style-type: none"> <li>– Weekly Weeks 1 to 8 (eight doses)</li> <li>– Every two weeks Weeks 9 to 24 (eight doses)</li> <li>– Every four weeks Week 25 onwards until disease progression or unacceptable toxicity</li> </ul> </li> </ul>
<p><i>*To facilitate administration, the first prescribed 16 mg/kg dose at Week 1 may be split over two consecutive days (i.e., 8 mg/kg on Day 1 and Day 2 respectively).</i></p>	
<p><i>Note: Initiate antiviral prophylaxis to prevent herpes zoster reactivation within 1 week after starting Darzalex and continue for 3 months following treatment.</i></p>	

## VI. Billing Code/Availability Information

### HCPCS Code:

- J9145 – Injection, daratumumab, 10 mg; 1 billable unit = 10 mg

### NDC(s):

- Darzalex 100 mg/5 mL single-dose vial: 57894-0502-xx
- Darzalex 100 mg/5mL single-dose vial: 57894-0505-xx
- Darzalex 400 mg/20 mL single-dose vial: 57894-0502-xx
- Darzalex 400 mg/20 mL single-dose vial: 57894-0505-xx

## VII. References (STANDARD)

1. Darzalex [package insert]. Horsham, PA; Janssen Biotech, Inc; January 2022. Accessed March 2023.

2. Referenced with permission from the NCCN Drugs & Biologics Compendium (NCCN Compendium®) for daratumumab. National Comprehensive Cancer Network, 2023. The NCCN Compendium® is a derivative work of the NCCN Guidelines®. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the Compendium, go online to NCCN.org. Accessed March 2023.
3. Chari A, Martinez-Lopez J, Mateos MV, et al. Daratumumab plus carfilzomib and dexamethasone in patients with relapsed or refractory multiple myeloma. *Blood*. 2019 Aug 1;134(5):421-431. doi: 10.1182/blood.2019000722. Epub 2019 May 21.
4. Facon T, Kumar S, Plesner T, et al. Daratumumab plus Lenalidomide and Dexamethasone for Untreated Myeloma. *N Engl J Med*. 2019 May 30;380(22):2104-2115. doi: 10.1056/NEJMoa1817249.
5. Mateos MV, Dimopoulos MA, Cavo M, et al. Daratumumab plus Bortezomib, Melphalan, and Prednisone for Untreated Myeloma. *N Engl J Med*. 2018 Feb 8;378(6):518-528. doi: 10.1056/NEJMoa1714678. Epub 2017 Dec 12.
6. Moreau P, Attal M, Hulin C, et al. Bortezomib, thalidomide, and dexamethasone with or without daratumumab before and after autologous stem-cell transplantation for newly diagnosed multiple myeloma (CASSIOPEIA): a randomised, open-label, phase 3 study. *Lancet*. 2019 Jul 6;394(10192):29-38. doi: 10.1016/S0140-6736(19)31240-1. Epub 2019 Jun 3.
7. Dimopoulos MA, Oriol A, Nahi H, et al. Daratumumab, Lenalidomide, and Dexamethasone for Multiple Myeloma. *N Engl J Med*. 2016 Oct 6;375(14):1319-1331.
8. Palumbo A, Chanan-Khan A, Weisel K, et al. Daratumumab, Bortezomib, and Dexamethasone for Multiple Myeloma. *N Engl J Med*. 2016 Aug 25;375(8):754-66. doi: 10.1056/NEJMoa1606038.
9. Chari A, Suvannasankha A, Fay JW, et al. Daratumumab plus pomalidomide and dexamethasone in relapsed and/or refractory multiple myeloma. *Blood*. 2017 Aug 24;130(8):974-981. doi: 10.1182/blood-2017-05-785246. Epub 2017 Jun 21.
10. Lonial S, Weiss BM, Usmani SZ, et al. Daratumumab monotherapy in patients with treatment-refractory multiple myeloma (SIRIUS): an open-label, randomised, phase 2 trial. *Lancet*. 2016 Apr 9;387(10027):1551-1560. doi: 10.1016/S0140-6736(15)01120-4. Epub 2016 Jan 7.
11. Lokhorst HM, Plesner T, Laubach JP, et al. Targeting CD38 with Daratumumab Monotherapy in Multiple Myeloma. *N Engl J Med*. 2015 Sep 24;373(13):1207-19. doi: 10.1056/NEJMoa1506348. Epub 2015 Aug 26.
12. Kaufman GP, Schrier SL, Lafayette RA, et al. Daratumumab yields rapid and deep hematologic responses in patients with heavily pretreated AL amyloidosis. *Blood*. 2017 Aug 17;130(7):900-902. doi: 10.1182/blood-2017-01-763599. Epub 2017 Jun 14.
13. Dimopoulos M, Quach H, Mateos MV, et al. Carfilzomib, dexamethasone, and daratumumab versus carfilzomib and dexamethasone for patients with relapsed or refractory multiple



myeloma (CANDOR): results from a randomised, multicentre, open-label, phase 3 study. *Lancet*. 2020 July 18;396(10245):186-197.

14. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) Multiple Myeloma Version 3.2023. National Comprehensive Cancer Network, 2023. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the NCCN Guidelines, go online to [NCCN.org](https://www.nccn.org). Accessed March 2023.
15. Referenced with permission from the NCCN Clinical Practice Guidelines in Oncology (NCCN Guidelines®) Systemic Light Chain Amyloidosis Version 2.2023. National Comprehensive Cancer Network, 2023. NATIONAL COMPREHENSIVE CANCER NETWORK®, NCCN®, and NCCN GUIDELINES® are trademarks owned by the National Comprehensive Cancer Network, Inc. To view the most recent and complete version of the NCCN Guidelines, go online to [NCCN.org](https://www.nccn.org). Accessed March 2023.
16. Voorhees PM, Kaufman JL, Laubach J, et al. Daratumumab, lenalidomide, bortezomib, and dexamethasone for transplant-eligible newly diagnosed multiple myeloma: the GRIFFIN trial. *Blood*. 2020 Aug 20;136(8):936-945.
17. Yimer H, Melear J, Faber E, et al. Daratumumab, bortezomib, cyclophosphamide and dexamethasone in newly diagnosed and relapsed multiple myeloma: LYRA study. *Br J Haematol*. 2019 May;185(3):492-502.
18. Gasparetto C, Lentzsch S, Schiller G, et al. Selinexor, daratumumab, and dexamethasone in patients with relapsed or refractory multiple myeloma. *eJHaem*. 2020;1-10. <https://doi.org/10.1002/jha2.122>.
19. Landgren O, Hultcrantz M, Diamond B, et al. Safety and Effectiveness of Weekly Carfilzomib, Lenalidomide, Dexamethasone, and Daratumumab Combination Therapy for Patients With Newly Diagnosed Multiple Myeloma: The MANHATTAN Nonrandomized Clinical Trial. *JAMA Oncol*. 2021 Jun 1;7(6):862-868. doi: 10.1001/jamaoncol.2021.0611.

## VIII. References (ENHANCED)

- 1e. Zonder JA, Crowley J, Hussein MA, et al. Superiority of Lenalidomide (Len) Plus High-Dose Dexamethasone (HD) Compared to HD Alone as Treatment of Newly-Diagnosed Multiple Myeloma (NDMM): Results of the Randomized, Double-Blinded, Placebo-Controlled SWOG Trial S0232. *Blood*, 110(11), 77.
- 2e. Rajkumar SV, Jacobus S, Callander NS, et al. Lenalidomide plus high-dose dexamethasone versus lenalidomide plus low-dose dexamethasone as initial therapy for newly diagnosed multiple myeloma: an open-label randomised controlled trial. *Lancet Oncol*. 2009;11(1):29-37.
- 3e. Zepeda VHJ, Duggan P, Neri PE, Bahlis NJ. Cyclophosphamide, Bortezomib and Dexamethasone (CyBORD) Is a Feasible and Active Regimen for Non-Transplant Eligible Multiple Myeloma Patients. *Blood*, 124(21), 5751.



- 4e. Kumar S, Flinn I, Richardson PG, et al. Randomized, multicenter, phase 2 study (EVOLUTION) of combinations of bortezomib, dexamethasone, cyclophosphamide, and lenalidomide in previously untreated multiple myeloma. *Blood*, 119(19), 4375-4382.
- 5e. Moreau P, Masszi T, Grzasko N, et al. Oral Ixazomib, Lenalidomide, and Dexamethasone for Multiple Myeloma. *N Engl J Med* 2016; 374:1621-1634.
- 6e. Lonial S, Dimopoulos M, Palumbo A, et al. Elotuzumab Therapy for Relapsed or Refractory Multiple Myeloma. *N Engl J Med* 2015; 373:621-631.
- 7e. Lonial S, Richardson PG, Mateos MV, et al. ELOQUENT-2 update: Phase III study of elotuzumab plus lenalidomide/dexamethasone (ELd) vs Ld in relapsed/refractory multiple myeloma (RRMM)—Identifying responders by subset analysis. *Journal of Clinical Oncology* 2016 34:15\_suppl, 8037-8037.
- 8e. Stewart AK, Rajkumar SV, Dimopoulos MA, et al. Carfilzomib, Lenalidomide, and Dexamethasone for Relapsed Multiple Myeloma. *N Engl J Med* 2015; 372:142-152.
- 9e. Siegel DS, Dimopoulos MA, Ludwig H, et al. Improvement in Overall Survival With Carfilzomib, Lenalidomide, and Dexamethasone in Patients With Relapsed or Refractory Multiple Myeloma. *Journal of Clinical Oncology* 2018 36:8, 728-734.
- 10e. Dimopoulos MA, Moreau P, Palumbo A, et al. Carfilzomib and dexamethasone versus bortezomib and dexamethasone for patients with relapsed or refractory multiple myeloma (ENDEAVOR): a randomised, phase 3, open-label, multicentre study. *Lancet Oncol.* 2016 Jan;17(1):27-38.
- 11e. Dimopoulos MA, Goldschmidt H, Niesvizky R, et al. Carfilzomib or bortezomib in relapsed or refractory multiple myeloma (ENDEAVOR): an interim overall survival analysis of an open-label, randomised, phase 3 trial. *Lancet Oncol.* 2017 Oct;18(10):1327-1337.
- 12e. Zepeda VHJ, Duggan P, Neri PE, Bahlis NJ. Cyclophosphamide, Bortezomib and Dexamethasone (CyBORD) Is a Feasible and Active Regimen for Non-Transplant Eligible Multiple Myeloma Patients. *Blood*, 124(21), 5751.
- 13e. Durie BG, Hoering A, Abidi MH, et al. Bortezomib with lenalidomide and dexamethasone versus lenalidomide and dexamethasone alone in patients with newly diagnosed myeloma without intent for immediate autologous stem-cell transplant (SWOG S0777): a randomised, open-label, phase 3 trial. *Lancet.* 2017;389(10068):519–527. doi:10.1016/S0140-6736(16)31594-X.
- 14e. Sonneveld P, Schmidt-Wolf IG, van der Holt B, et al. Bortezomib induction and maintenance treatment in patients with newly diagnosed multiple myeloma: results of the randomized phase III HOVON-65/ GMMG-HD4 trial. *J Clin Oncol.* 2012 Aug 20;30(24):2946-55. doi: 10.1200/JCO.2011.39.6820.
- 15e. Jakubowiak AJ, Dytfield D, Griffith KA, et al. A phase 1/2 study of carfilzomib in combination with lenalidomide and low-dose dexamethasone as a frontline treatment for multiple myeloma. *Blood.* 2012;120(9):1801-1809. doi:10.1182/blood-2012-04-422683.

- 16e. Dytfeld D, Jasielc J, Griffith KA, et al. Carfilzomib, lenalidomide, and low-dose dexamethasone in elderly patients with newly diagnosed multiple myeloma. *Haematologica*. 2014;99(9):e162-e164. doi:10.3324/haematol.2014.110395.
- 17e. Kumar SK, Berdeja JG, Niesvizky R, et al. Safety and tolerability of ixazomib, an oral proteasome inhibitor, in combination with lenalidomide and dexamethasone in patients with previously untreated multiple myeloma: an open-label phase 1/2 study. *Lancet Oncol*. 2014 Dec;15(13):1503-1512. doi: 10.1016/S1470-2045(14)71125-8.
- 18e. Voorhees PM, Kaufman JL, Laubach J, et al. Daratumumab, lenalidomide, bortezomib, and dexamethasone for transplant-eligible newly diagnosed multiple myeloma: the GRIFFIN trial. *Blood*. 2020 Aug 20;136(8):936-945. doi: 10.1182/blood.2020005288.
- 19e. Kumar SK, Lacy MQ, Hayman SR, et al. Lenalidomide, cyclophosphamide and dexamethasone (CRd) for newly diagnosed multiple myeloma: results from a phase 2 trial. *Am J Hematol*. 2011;86(8):640-645. doi:10.1002/ajh.22053.
- 20e. Moreau P, Hulin C, Macro M, et al. VTD is superior to VCD prior to intensive therapy in multiple myeloma: results of the prospective IFM2013-04 trial. *Blood*. 2016 May 26;127(21):2569-74. doi: 10.1182/blood-2016-01-693580.
- 21e. Dimopoulos MA, Grosicki S, Jędrzejczak WW, et al. All-oral ixazomib, cyclophosphamide, and dexamethasone for transplant-ineligible patients with newly diagnosed multiple myeloma. *Eur J Cancer*. 2019 Jan;106:89-98. doi: 10.1016/j.ejca.2018.09.011.
- 22e. Barlogie B, Anaissie E, van Rhee F, et al. Incorporating bortezomib into upfront treatment for multiple myeloma: early results of total therapy 3. *Br J Haematol*. 2007 Jul;138(2):176-85. doi: 10.1111/j.1365-2141.2007.06639.x.
- 23e. Sanchorawala V, Sarosiek S, Schulman A, et al. Safety, tolerability, and response rates of daratumumab in relapsed AL amyloidosis: results of a phase 2 study. *Blood*. 2020 Apr 30;135(18):1541-1547. doi: 10.1182/blood.2019004436.
- 24e. Roussel M, Merlini G, Chevret S, et al. A prospective phase 2 trial of daratumumab in patients with previously treated systemic light-chain amyloidosis. *Blood*. 2020 Apr 30;135(18):1531-1540. doi: 10.1182/blood.2019004369.
- 25e. Gasparetto C, Sanchorawala V, Snyder RM, et al. Use of melphalan (M)/dexamethasone (D)/bortezomib in AL amyloidosis. *J Clin Oncol* 2010; 28:Abstract 8024.
- 26e. Reece DE, Hegenbart U, Sanchorawala V, et al. Efficacy and safety of once-weekly and twice-weekly bortezomib in patients with relapsed systemic AL amyloidosis: results of a phase 1/2 study. *Blood*. 2011 Jul 28;118(4):865-73. doi: 10.1182/blood-2011-02-334227.
- 27e. Sanchorawala V, Palladini G, Kukreti V, et al. A phase 1/2 study of the oral proteasome inhibitor ixazomib in relapsed or refractory AL amyloidosis [published correction appears in *Blood*. 2020 Mar 26;135(13):1071]. *Blood*. 2017;130(5):597-605. doi:10.1182/blood-2017-03-771220.
- 28e. Dispenzieri A, Buadi F, Laumann K, et al. Activity of pomalidomide in patients with immunoglobulin light-chain amyloidosis. *Blood*. 2012;119(23):5397-5404. doi:10.1182/blood-2012-02-413161.

- 29e. Richardson PG, Xie W, Jagannath S, et al. A phase 2 trial of lenalidomide, bortezomib, and dexamethasone in patients with relapsed and relapsed/refractory myeloma. *Blood*. 2014 Mar 6;123(10):1461-9. doi: 10.1182/blood-2013-07-517276. Epub 2014 Jan 15. PMID: 24429336; PMCID: PMC4123434.
- 30e. Moreau P, Dimopoulos MA, Mikhael J, et al; IKEMA study group. Isatuximab, carfilzomib, and dexamethasone in relapsed multiple myeloma (IKEMA): a multicentre, open-label, randomised phase 3 trial. *Lancet*. 2021 Jun 19;397(10292):2361-2371. doi: 10.1016/S0140-6736(21)00592-4. Epub 2021 Jun 4. PMID: 34097854.
- 31e. Krishnan A, Kapoor P, Palmer JM, et al. Phase I/II trial of the oral regimen ixazomib, pomalidomide, and dexamethasone in relapsed/refractory multiple myeloma. *Leukemia*. 2018;32(7):1567-1574. doi:10.1038/s41375-018-0038-8
- 32e. Richardson PG, Oriol A, Beksac M, et al; OPTIMISMM trial investigators. Pomalidomide, bortezomib, and dexamethasone for patients with relapsed or refractory multiple myeloma previously treated with lenalidomide (OPTIMISMM): a randomised, open-label, phase 3 trial. *Lancet Oncol*. 2019 Jun;20(6):781-794. doi: 10.1016/S1470-2045(19)30152-4. Epub 2019 May 13. PMID: 31097405.
- 33e. Attal M, Richardson PG, Rajkumar SV, et al; ICARIA-MM study group. Isatuximab plus pomalidomide and low-dose dexamethasone versus pomalidomide and low-dose dexamethasone in patients with relapsed and refractory multiple myeloma (ICARIA-MM): a randomised, multicentre, open-label, phase 3 study. *Lancet*. 2019 Dec 7;394(10214):2096-2107. doi: 10.1016/S0140-6736(19)32556-5. Epub 2019 Nov 14. Erratum in: *Lancet*. 2019 Dec 7;394(10214):2072. PMID: 31735560.
- 34e. Palladini G, Russo P, Milani P, et al. A phase II trial of cyclophosphamide, lenalidomide and dexamethasone in previously treated patients with AL amyloidosis. *Haematologica*. 2013 Mar;98(3):433-6. doi: 10.3324/haematol.2012.073593. Epub 2012 Sep 14.
- 35e. Santhorawala V, Wright DG, Rosenzweig M, et al. Lenalidomide and dexamethasone in the treatment of AL amyloidosis: results of a phase 2 trial. *Blood*. 2007 Jan 15;109(2):492-6. doi: 10.1182/blood-2006-07-030544.
- 36e. Magellan Health, Magellan Rx Management. Darzalex Clinical Literature Review Analysis. Last updated March 2023. Accessed March 2023.

## Appendix 1 – Covered Diagnosis Codes

ICD-10	ICD-10 Description
C90.00	Multiple myeloma not having achieved remission
C90.02	Multiple myeloma, in relapse
C90.10	Plasma cell leukemia not having achieved remission
C90.12	Plasma cell leukemia in relapse
C90.20	Extramedullary plasmacytoma not having achieved remission
C90.22	Extramedullary plasmacytoma in relapse

### DARZALEX® -E- (daratumumab) Prior Auth Criteria

Proprietary Information. Restricted Access – Do not disseminate or copy without approval.

©2023, Magellan Rx Management

ICD-10	ICD-10 Description
C90.30	Solitary plasmacytoma not having achieved remission
C90.32	Solitary plasmacytoma in relapse
E85.3	Secondary systemic amyloidosis
E85.4	Organ-limited amyloidosis
E85.81	Light chain (AL) amyloidosis
E85.89	Other amyloidosis
E85.9	Amyloidosis, unspecified
Z85.79	Personal history of other malignant neoplasms of lymphoid, hematopoietic and related tissues

## Appendix 2 – Centers for Medicare and Medicaid Services (CMS)

Medicare coverage for outpatient (Part B) drugs is outlined in the Medicare Benefit Policy Manual (Pub. 100-2), Chapter 15, §50 Drugs and Biologicals. In addition, National Coverage Determination (NCD), Local Coverage Determinations (LCDs), and Local Coverage Articles (LCAs) may exist and compliance with these policies is required where applicable. They can be found at:

<https://www.cms.gov/medicare-coverage-database/search.aspx>. Additional indications may be covered at the discretion of the health plan.

Medicare Part B Covered Diagnosis Codes (applicable to existing NCD/LCD/LCA): N/A

Medicare Part B Administrative Contractor (MAC) Jurisdictions		
Jurisdiction	Applicable State/US Territory	Contractor
E (1)	CA, HI, NV, AS, GU, CNMI	Noridian Healthcare Solutions, LLC
F (2 & 3)	AK, WA, OR, ID, ND, SD, MT, WY, UT, AZ	Noridian Healthcare Solutions, LLC
5	KS, NE, IA, MO	Wisconsin Physicians Service Insurance Corp (WPS)
6	MN, WI, IL	National Government Services, Inc. (NGS)
H (4 & 7)	LA, AR, MS, TX, OK, CO, NM	Novitas Solutions, Inc.
8	MI, IN	Wisconsin Physicians Service Insurance Corp (WPS)
N (9)	FL, PR, VI	First Coast Service Options, Inc.
J (10)	TN, GA, AL	Palmetto GBA, LLC
M (11)	NC, SC, WV, VA (excluding below)	Palmetto GBA, LLC
L (12)	DE, MD, PA, NJ, DC (includes Arlington & Fairfax counties and the city of Alexandria in VA)	Novitas Solutions, Inc.
K (13 & 14)	NY, CT, MA, RI, VT, ME, NH	National Government Services, Inc. (NGS)
15	KY, OH	CGS Administrators, LLC