BC Cancer Protocol Summary for the Treatment of Previously Untreated Multiple Myeloma and Not Eligible for Stem Cell Transplant using Daratumumab, Cyclophosphamide, Bortezomib and **Dexamethasone**

Protocol Code MYDARCBDF

Tumour Group Myeloma

Contact Physicians

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ELIGIBILITY:

Patients must have:

- Newly diagnosed multiple myeloma as per the updated International Myeloma Working Group criteria, and
- Ineligibility for stem cell transplant

Notes:

- Cyclophosphamide may be substituted with melphalan
- Patients are eligible for only one line of anti-CD38 monoclonal antibody therapy (e.g., daratumumab or isatuximab)

EXCLUSION:

Patients must not have:

Diagnosis of light chain (AL) amyloidosis only - see LYDARCBDF

CAUTIONS:

- Neutrophils of 1.0 x 10⁹/L or less (consider giving filgrastim),
- Platelet count of 30 x 10⁹/L or less,
- AST or ALT level of 2.5 times greater than ULN, or total bilirubin of 1.5 or greater than ULN

TESTS:

- Baseline (required before first treatment): Red Blood Cell phenotype and Group and Screen pre-daratumumab (mark on requisition "patient to start daratumumab")
- Baseline (required before first treatment); CBC & Diff. creatinine, urea, sodium, potassium. total bilirubin, ALT, alkaline phosphatase, calcium, albumin, LDH, random glucose
- Baseline (required, but results do not have to be available to proceed with first treatment: results must be checked before proceeding with cycle 2); serum protein electrophoresis and serum free light chain levels, immunoglobulin panel (IgA, IgG, IgM), HCAb, HBsAg, HBsAb, HBcoreAb, beta-2 microglobulin
- Every 4 weeks (required, but results do not have to be available to proceed with treatment): serum protein electrophoresis and serum free light chain levels
- Every 4 weeks (optional, results not mandatory but encouraged prior to each cycle): urine protein electrophoresis, immunoglobulin panel (IgA, IgG, IgM), beta-2 microglobulin
- Every 4 weeks: CBC & Diff, creatinine, urea, sodium, potassium, total bilirubin, ALT, alkaline phosphatase, calcium, albumin, LDH, random glucose

- Days 8, 15, 22 (optional if pre-cycle cytopenias, hypercalcemia, hepatic or renal dysfunction, or steroid-induced diabetes a concern. Results do not have to be available to proceed with treatment. Provider to review results, no dose modifications indicated for mid-cycle bloodwork): CBC & Diff, creatinine, sodium, potassium, total bilirubin, ALT, alkaline phosphatase, calcium, albumin, random glucose
- If clinically indicated: HBV viral load (see protocol <u>SCHBV</u>)

PREMEDICATIONS:

Prior to daratumumab administration (subcutaneous or intravenous):

- acetaminophen 650 mg PO prior to each daratumumab, then Q4H PRN during infusion if infusion exceeds 4 hours
- loratadine 10 mg PO (preferred) or diphenhydrAMINE 50 mg PO/IV prior to each daratumumab, then:
 - o If using loratedine: give diphenhydrAMINE 50 mg IV Q4H PRN allergic reaction
 - If using diphenhydrAMINE: repeat diphenhydrAMINE 50 mg IV Q4H PRN allergic reaction.
- montelukast 10 mg PO prior to daratumumab for cycle 1, Day 1 (and Day 2 if on alternative regimen), then consider discontinuing if no infusion or injection reactions
- dexamethasone 20 to 40 mg PO prior to daratumumab for cycle 1 only. (The therapeutic dose of dexamethasone is used as the premedication steroid to reduce the risk of reactions). If using IV daratumumab split dosing (i.e., the Alternative regimen), dexamethasone 20 mg should be given prior to daratumumab on Days 1 and 2. After cycle 1, steroids are not required as a premedication as the risk of administration reactions is significantly reduced after the third dose of daratumumab. The therapeutic dexamethasone dose (if ordered) should be administered prior to daratumumab.
 - predniSONE may be used instead of dexamethasone as the therapeutic steroid. A minimum of 100 mg of predniSONE is required for cycle 1. After cycle 1, a lower dose of predniSONE may be used and administered prior to daratumumab

Note: A minimum of 20 mg of dexamethasone (or 100 mg of predniSONE) is not needed prior to each daratumumab treatment after cycle 1

SUPPORTIVE MEDICATIONS:

- Very high risk of hepatitis B reactivation. If HBsAg or HBcoreAb positive, follow hepatitis B prophylaxis as per SCHBV.
- Antiviral prophylaxis against reactivation of varicella-zoster virus (VZV) is recommended prior to initiating bortezomib and daratumumab. Patients should take valACYclovir 500 mg PO daily
- Oral proton-pump inhibitor or H₂ antagonist for the duration of treatment with dexamethasone may be considered

TREATMENT:

1 cycle = 28 days. Treat until progression

Insert a peripheral IV and saline lock for Cycle 1 Day 1 only for subcutaneous daratumumab, for use in the event of a hypersensitivity reaction.

Drug	Dose	BC Cancer Administration Guideline
	Cycle 1 to 9:	PO
dexamethasone	40 mg* once weekly on Days 1, 8, 15 and 22	prior to daratumumab, and on the weeks when daratumumab is not given, taken in the morning
	Cycle 1 to 9:	
cyclophosphamide	500 mg once weekly on Days 1, 8, 15 and 22 OR 50 mg once every 2 days	PO, in the morning may be preferred
bortezomib [≠]	Cycle 1 to 9:	subcutaneous
bortezoniib	1.3 mg/m ² (may start with 1.5 mg/m ²) once weekly on Days 1, 8, 15, 22	(abdomen or thigh)
	Cycles 1 and 2: 1800 mg (fixed dose in 15 mL) on Days 1, 8, 15 and 22	subcutaneous over 5 minutes in the abdomen
daratumumab¶	Cycles 3 to 6: 1800 mg (fixed dose in 15 mL) on Days 1 and 15	Observe [¥] for 1 hour after administration on Day 1 of Cycle 1. Observation not required for
	Cycles 7 and subsequent:	subsequent doses, except at physician
	1800 mg (fixed dose in 15 mL) on Day 1	discretion

^{*}Dexamethasone dose may vary dependent on tolerability and co-morbidities. For older patients i.e. 75 years of age or older, the starting dose of dexamethasone should be 20 mg PO weekly. See also: Other options for steroid dosing, below. The risk of administration reactions is significantly reduced after the third dose of daratumumab; therefore, premedication with steroids is not required after cycle 1.15

[‡]On days when both subcutaneous daratumumab and bortezomib is administered, give bortezomib before subcutaneous daratumumab.

^{*} Observe patient for 1 hour after injection on Cycle 1 Day 1 only. If dyspnea, chills, rash, fever, pruritus, vomiting, chest pain, throat tightness, cough, wheezing, or any other new acute discomfort occurs, page physician. Observation after subsequent doses at physician discretion only. For patients changing from daratumumab IV to subcutaneous route, observe patient for 30 minutes after the first subcutaneous dose.

Daratumumab may be given subcutaneously or intravenously. Subcutaneous daratumumab is the preferred route of administration due to decreased incidence of reaction and greater convenience. Patients who start on subcutaneous daratumumab, but require switch due to intolerance, may be administered IV daratumumab as per Cycle 2 plus guidelines below.

Vitals monitoring: subcutaneous daratumumab

Vital signs immediately prior to the injection, at the end of the injection, and at the end of observation period for first injection only (Cycle 1 Day 1), and as needed.

IV DARATUMUMAB Option:

If the intravenous route is chosen, there are 2 options for administering the first daratumumab infusion and the decision to use one over the other is centre-based:

- 1) Standard regimen first infusion of daratumumab 16 mg/kg administered on Cycle 1 Day 1. This is preferred where possible.
- 2) Alternative regimen first dose of daratumumab is split over 2 days i.e., 8 mg/kg administered on Cycle 1 Day 1 and again on Day 2. Cycle 1 Day 1 + Day 2 is considered to be the first infusion. This regimen has been created to accommodate shorter clinic hours.

Cycle 1 DARATUMUMAB IV

Drug	Standard Regimen (Dose)	Alternative Regimen (Dose)	BC Cancer Administration Guideline
			IV in 1000 mL NS (use 0.2 micron in-line filter)
	16 mg/kg on Day 1		Start at 50 mL/h; if no reactions [†] after 60 minutes, increase rate by 50 mL/h every 60 minutes until maximum 200 mL/h
		8 mg/kg on	IV in 500 mL NS (use 0.2 micron in-line filter)
		Days 1 and 2	Start at 50 mL/h; if no reactions [†] after 60 minutes, increase by 50 mL/h every 60 minutes until maximum 200 mL/h
			IV in 500 mL [‡] NS (use 0.2 micron in-line filter)
daratumumab			If no reaction on Cycle 1 Day 1, or Cycle 1 Day 1 and 2, or reaction is Grade 2 [‡] or less:
daratamamas	16 mg/kg c	on Day 9	Start infusion at 200 mL/h. If no reaction [†] after 30 minutes, infuse the remainder at 450 mL/h (rapid infusion)
	16 mg/kg on Day 8		OR
			If reaction on Cycle 1 Day 1, or Cycle 1 Day 1 and 2 is Grade 3 [‡] :
			Start at 50 mL/h; if no reactions [†] after 60 minutes, increase by 50 mL/h every 60 minutes until maximum 200 mL/h (slow infusion)
			IV in 500 mL NS (use 0.2 micron in-line filter)
			If no reaction on Cycle 1 Day 1, Day 2 and Day 8 or reaction is Grade 2 [‡] or less:
	16 mg/kg on Days 15 and 22		Start infusion at 200 mL/h. If no reaction [†] after 30 minutes, infuse the remainder at 450 mL/h (rapid infusion)
			OR
			If reaction on Cycle 1 Day 1, Day 2 and Day 8 is Grade 3 [‡] :
			Start at 100 mL/h; if no reactions [†] after 60 minutes, increase by 50 mL/h every 60 minutes until maximum 200 mL/h (slow infusion)

[†] If BP falls to less than 80/50 mmHg or pulse increases to greater than 120 or if flushing, dyspnea, chills, rash, pruritus, vomiting, chest pain, throat tightness, cough, wheezing, or any other new acute discomfort occurs, stop daratumumab infusion and page physician. See Infusion Reaction section in protocol for when to resume infusion and rate.

Cycle 2 plus DARATUMUMAB IV

Drug	Cycle	Dose	BC Cancer Administration Guideline
	Cycle 2	16 mg/kg on Days 1, 8, 15, 22	IV in 500 mL NS (use 0.2 micron in-line filter) If no reaction in the previous infusion or reaction is Grade 2 [‡] or less:
daratumumab	Cycle 3 to 6	16 mg/kg on Days 1 and 15	Start infusion at 200 mL/h. If no reaction [†] after 30 minutes, infuse the remainder at 450mL/h (rapid infusion)
	Cycle 7 and	16 mg/kg on Day 1	OR
	subsequent [≠]		If reaction in the previous infusion is Grade 3‡:
			Start at 100 mL/h; if no reactions [†] after 60 minutes, increase by 50 mL/h every 60 minutes until maximum 200 mL/h (slow infusion)

[†] If BP falls to less than 80/50 mmHg or pulse increases to greater than 120 or if flushing, dyspnea, chills, rash, pruritus, vomiting, chest pain, throat tightness, cough, wheezing, or any other new acute discomfort occurs, stop daratumumab infusion and page physician. See Infusion Reaction section in protocol for when to resume infusion and rate.

For additional information on infusion rates, see <u>Appendix: Daratumumab infusion rate titration</u> table.

Vitals monitoring: IV daratumumab

For infusions on Cycle 1 Day 1 (and Day 2 if using Alternative regimen)

Vital signs immediately before the start of the infusion, then every 30 minutes x 4, then every 1 to 2 hours until the end of the infusion. Post infusion at 30 minutes after the end of the infusion. Patient may leave when infusion is complete and patient is stable for 30 minutes.

[‡] For CTCAE grading, see Appendix: Infusion Related Reaction

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[≠]For cycle 10 and onwards, may order a maximum of 3 cycles at a time (i.e. return to clinic in 12 weeks)

For subsequent infusions i.e., Cycle 1 Day 8 and beyond:

Vital signs immediately before the start, at the end of the infusion, and as needed. Patient may leave when infusion is complete and patient is stable for 30 minutes. Vitals and observation post-infusion not required after 3 treatments if patient did not experience any infusion reactions.

POST INFUSION MEDICATIONS:

Patients with a higher risk of respiratory complications (e.g., patients with chronic obstructive pulmonary disease (COPD) who have a forced expiratory volume in 1 second of less than 80%; patients with asthma) should be treated with post-infusion medication consisting of an antihistamine (diphenhydramine) on the first and second days after all infusions, short acting adrenergic receptor agonist (salbutamol inhaler) and control medications for lung disease (e.g., inhaled corticosteroids +/- long-acting β2 adrenergic receptor agonists for patients with asthma; long-acting bronchodilators +/- inhaled corticosteroids for patients with COPD.

OTHER OPTIONS FOR STEROID DOSING

 Can be used (but may result in lower efficacy). Dose should be adjusted based upon toxicity and patient tolerance. Some examples included below:

Option A:

dexamethasone 20 mg PO once weekly (or dexamethasone 4 to 40 mg PO once weekly based on toxicity and patient tolerance)

Option B:

predniSONE may be substituted for patient or physician preference, in a variety of regimens based upon toxicity and patient tolerance. (e.g. predniSONE 10 to 100 mg PO once weekly)

Option C:

No dexamethasone/predniSONE. High-dose steroids may need to be avoided in certain patients who are intolerant or have difficulty with side-effects. It is expected that the response will be inferior than with high-dose steroids. High-dose steroids may be added for non-response. In cycle 1, hydrocortisone 100 mg IV should be considered prior to each daratumumab dose for prevention of IRR.

DOSE MODIFICATIONS:

Bortezomib dose levels:

Dose level 0	Dose level -1	Dose level -2	Dose level -3	Dose level -4
1.5 mg/m ²	1.3 mg/m ²	1 mg/m ²	0.7 mg/m ²	0.5 mg/m ²

1. Hematological (based on pre-cycle lab work):

ANC (x10⁹/L) On Day 1		Platelets (x10 ⁹ /L) On Day 1	Bortezomib Dose	Daratumumab Dose	Cyclophosphamide Dose
Greater than or equal to 0.5	and	Greater than or equal to 50	Maintain dose level	100%	100%
Greater than or equal to 0.5	and	30 to 49	Notify provider. Proceed but consider dose reduction by one dose level for low platelets.		
Less than 0.5 [†]	or	Less than 30*	May proceed but consider decrease by one dose level if felt to be treatment related.		
Reoccurrence of less than 0.5 [†]	or	Reoccurrence of less than 30*	For recurrence of ANC less than 0.5, may proceed but consider decrease by one dose level if felt to be treatment related	100%	Delay until recovery
			Delay until platelets greater than or equal to 30, then consider decreasing by one dose level		

^{*}follow hematology weekly and consider arrangements for transfusion support as required.

[†] Consider weekly filgrastim if clinically indicated and filgrastim is available. Filgrastim is not covered as a benefit drug by BC Cancer.

2 Henatic Impairment:

	Total bilirubin	ALT or AST	Bortezomib Dose	Daratumumab Dose	Cyclophosphamide Dose
Mild	less than or equal to 1 x ULN	greater than ULN	100%		
	greater than 1 to 1.5 x ULN	Any	100%		
Moderate	greater than 1.5 to 3 x ULN	Any	 Reduce dose to 0.7 mg/m² in the first cycle. 	100 %	100 %
Severe	greater than 3 x ULN	Any	■ Consider dose escalation to 1 mg/m² or further dose reduction to 0.5 mg/m² in subsequent cycles based on patient tolerability.		

3. Renal Dysfunction:

Bortezomib and Daratumumab:

Estimated GFR (eGFR)* or Creatinine clearance (mL/min)	Bortezomib Dose	Daratumumab Dose
Greater than or equal to 60		
30 to 59	100% For patients on hemodialysis, give dose after dialysis.	100% For patients on hemodialysis, give dose after dialysis.
Less than 30, not requiring dialysis		

Cyclophosphamide:

- Dose reduction is necessary per table, below. Physician may consider giving full dose of cyclophosphamide irrespective of renal function if deemed to be of benefit.
- For patients on hemodialysis, give dose after dialysis.

Creatinine clearance (mL/min)	Cyclophosphamide Dose
Greater than or equal to 10	100 %
Less than 10	75 %

Calculated creatinine clearance = $N \times (140 - Age) \times weight (kg)$ Serum Creatinine (micromols/L)

N = 1.04 (Females) and 1.23 (Males)

4. Peripheral Neuropathy: bortezomib

Severity of Peripheral Neuropathy Signs and Symptoms	Bortezomib Dose
Grade 1 (paresthesia and/or loss of reflexes) without pain or loss of function	100%
Grade 1 with pain or Grade 2 (interfering with function but not with activities of daily living)	Reduce dose to 1 mg/m ²
Grade 2 with pain or Grade 3 (interfering with activities of daily living	Delay until recovery. When resolved, reduce dose to 0.7 mg/m² weekly
Grade 4 (permanent sensory loss that interferes with function)	Discontinue treatment

5. Diarrhea management with bortezomib:

Diarrhea grading system

Grade 1	Grade 2	Grade 3	Grade 4
Increase of less than 4 stools per day over baseline; mild increase in ostomy output compared to baseline	Increase of 4 – 6 stools per day over baseline; IV fluids indicated for less than 24hrs; moderate increase in ostomy output compared to baseline; not interfering with activities of daily living	Increase of greater than 7 stools per day over baseline; incontinence; IV fluids for greater than 24 hrs; hospitalization; severe increase in ostomy output compared to baseline; interfering with activities of daily living	Life-threatening consequences (e.g., hemodynamic collapse)

Treatment of Diarrhea during cycle			
At first loose stool:	Start loperamide 2 mg PO q2h while awake and q4h while sleeping. Continue around the clock until 12 h diarrhea free	 If <u>diarrhea free greater than 12 h</u>, stop loperamide. If new episode, retreat with loperamide. If <u>grade 3 diarrhea</u> or diarrhea accompanied by <u>mucus or dehydration</u>, <u>hold doses of bortezomib</u> (if applicable) and hydrate. 	

Diarrhea management: Next Cycle Dosing				
Delay next cycle until diarrhea ha	s resolved (less than 2 watery bowel movements / day)			
Severity of diarrhea with last cycle: Bortezomib dose this cycle				
less than or equal to grade 2	no change from previous cycle			
greater than or equal to grade 3	Reduce dose to 80% of that used in the last course or consider once a week dosing.			
or associated with mucus or dehydration	(if two dose reductions have already occurred further treatment with bortezomib must be individualized and should only continue if a clearly useful clinical response in the myeloma has occurred)			

6. Infusion reactions

There are no modifications required to subcutaneous daratumumab for any current or previous infusion/administration reaction(s).

See BC Cancer Protocol Summary for Management of Infusion-Related Reactions to Chemotherapeutic Agents – SCDRUGRX.

Infusion reactions	Management
If BP falls to less than 80/50 mmHg or pulse increases to greater than 120 or if flushing, dyspnea, chills, rash, pruritus, vomiting, chest pain, throat tightness, cough, wheezing, or any other new acute discomfort, stop infusion and page physician	Initial occurrence: After recovery of symptoms, restart infusion at HALF the rate at which the infusion reactions occurred and continue with escalation of infusion rates on the appropriate schedule above. Subsequent occurrence: If the infusion must be stopped a second time, restart after recovery of symptoms, at HALF the rate at which the infusion reactions occurred and continue at that rate without further escalation

Infusion rate when resuming infusion after grade 1 or greater symptoms are resolved:

Infusion rate when reactions occur	Maximum infusion rate when resuming infusion*
50 mL/h	25 mL/h
100 mL/h	50 mL/h
150 mL/h	75 mL/h
200 mL/h	100 mL/h
450 mL/h	225 mL/h*

^{*}Incremental increases remain at 50 mL/h for all resuming infusions

PRECAUTIONS:

- 1. Infusion/administration reactions occur in approximately 35 to 48% of all patients during intravenous infusions and in approximately 8 to 13% of patients after subcutaneous injection and can be serious including bronchospasm, hypoxia and hypertension. These usually occur with the first dose and rarely after subsequent infusions. Nearly all reactions occurred during intravenous infusion or shortly after completing the infusion or subcutaneous injection. Other signs and symptoms include cough, wheezing, larynx and throat tightness/irritation, laryngeal edema, pulmonary edema, nasal congestion, and allergic rhinitis. Less commonly reported symptoms include hypotension, headache, urticarial rash, pruritus, nausea, vomiting, and chills. Premedication with antihistamines, antipyretics, and corticosteroids is required; stop IV infusion for any infusion reactions and manage as appropriate. Reduce the infusion rate for grade 1, 2, or 3 infusion reactions, see Common Terminology Criteria for Adverse Events (CTCAE) in appendix; permanently discontinue therapy for grade 4 infusion reactions. Administer in a facility with immediate access to resuscitative measures (e.g., glucocorticoids, epinephrine, bronchodilators, and/or oxygen). Consider administration of oral corticosteroids on the second day after administration to reduce the risk of delayed infusion reactions. Consider short- and long-acting bronchodilators and inhaled corticosteroids for patients with obstructive pulmonary disorders; monitor closely. See BC Cancer Protocol Summary for Management of Infusion-Related Reactions to Chemotherapeutic Agents – SCDRUGRX.
- 2. Interference with cross-matching and red blood cell antibody screening occurs due to drug binding to CD38 on red blood cells (RBC) resulting in a positive Indirect Antiglobulin Test (Coombs test). This interference may persist for up to 6 months post last daratumumab treatment. Inform blood bank that a patient has received daratumumab. Type and screen patients prior to starting daratumumab.
- 3. Interference with determination of myeloma response as daratumumab (a human IgG kappa monoclonal antibody) may be detected on serum protein electrophoresis and immunofixation assays which monitor for endogenous M-protein. Interference with these assays by daratumumab may affect the determination of complete response and disease progression in some patients with IgG kappa myeloma protein.
- 4. Hepatitis B Reactivation: See SCHBV protocol for more details.
- 5. **Live vaccines**: Patients with any history of lymphoid cancers including myeloma should not be given live vaccines.
- 6. **Need for irradiated blood products:** Patients receiving an autotransplant require irradiated blood products from 7 days prior to collection to 3 months post transplant (6 months if total body irradiation conditioning) to eliminate the risk of potentially life-threatening transfusion-related graft-versus-host-disease. All other myeloma patients do not require irradiated blood products.
- 7. **Green tea avoidance**: Some of the components in green tea and preparations made from green tea block the activity of bortezomib in in vitro experiments. Green tea or preparations made from green tea should be avoided by patients taking bortezomib.
- 8. **Diarrhea management with bortezomib:** see diarrhea management in bortezomib dose modification section.
- 9. **Peripheral Neuropathy:** occurs in 36–37% of patients receiving IV bortezomib with 8–14% resulting in grade 3–4 severity of symptoms. This is a common and often dose limiting side effect. Administration of bortezomib via the subcutaneous route instead of IV push significantly reduces the occurrence of peripheral neuropathy.

Call Dr. Christopher Venner or tumour group delegate at (604) 877-6000 or 1-800-663-3333 with any problems or questions regarding this treatment program.

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Appendix:

Daratumumab infusion rate titration table

STANDARD Regimen Cycle 1: Day 1

Daratumumab 16 mg/kg IV in 1000 mL NS Total Volume (Refer to pharmacy label)					
TITRATION RATE DURATION VOLUME TO BE INFUSED (VTBI)					
50 mL/h	1 h	50 mL			
100 mL/h 1 h		100 mL			
150 mL/h	1 h	150 mL			
200 mL/h 3 h 30 min 700 mL					

ALTERNATIVE Regimen Cycle 1: Day 1 and Day 2

Daratumumab 8 mg/kg IV in 500 mL NS Total Volume (Refer to pharmacy label)				
TITRATION RATE DURATION VOLUME TO BE INFUSED (VTBI)				
50 mL/h	1 h	50 mL		
100 mL/h	1 h	100 mL		
150 mL/h	1 h	150 mL		
200 mL/h	1 h	200 mL		

Infusion rate is the same for both regimens thereafter.

Both regimens have same infusion rate for Cycle 1 Days 8, 15 and 22, and Cycle 2 and beyond.

Rapid Infusion: Cycle 1 Day 8 and beyond

Daratumumab 16 mg/kg IV in 500 mL NS Total Volume (Refer to pharmacy label)				
TITRATION RATE DURATION VOLUME TO BE INFUSED (VTBI)				
200 mL/h	30 min	100 mL		
450 mL/h 55 min		400 mL		

Slow Infusion: Cycle 1: Day 8

Daratumumab 16 mg/kg IV in 500 mL NS Total Volume (Refer to pharmacy label)					
TITRATION RATE DURATION VOLUME TO BE INFUSED (VTBI)					
50 mL/h	1 h	50 mL			
100 mL/h	1 h	100 mL			
150 mL/h	1 h	150 mL			
200 mL/h	1 h	200 mL			

Slow Infusion: Cycle 1: Day 15 and Day 22

Slow Infusion: Cycle 2 and beyond

Daratumumab 16 mg/kg IV in 500 mL NS Total Volume (Refer to pharmacy label)					
TITRATION RATE DURATION VOLUME TO BE INFUSED (VTBI)					
100 mL/h 1 h		100 mL			
150 mL/h 1 h		150 mL			
200 mL/h	1 h 15 min	250 mL			

Appendix: Infusion related Reaction

Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
Mild transient reaction; infusion interruption not indicated; intervention not indicated	Therapy or infusion interruption indicated but responds promptly to symptomatic treatment (eg. antihistamines, NSAIDS, narcotics, iv fluids); prophylactic medications indicated for less than or equal to 24 hours	Prolonged (e.g., not rapidly responsive to symptomatic medication and /or brief interruption of infusion); recurrence of symptoms following initial improvement; hospitalization indicated for clinical sequelae	Life-threatening consequences; urgent intervention indicated	<u>Death</u>

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