



International Myeloma Foundation 800-452-CURE (2873) http://myeloma.org

Relapsed Multiple Myeloma

CASE #3: Steve*

CASE #4: Michelle*
*HIPAA-compliant; not actual patient names

Amy Pierre, RN, MSN, ANP-BC
Beth Faiman, PhD, RN, MSN, APRN-BC, AOCN®, FAAN



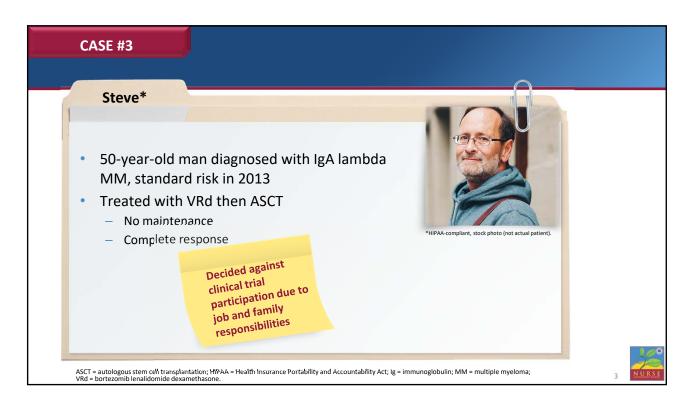


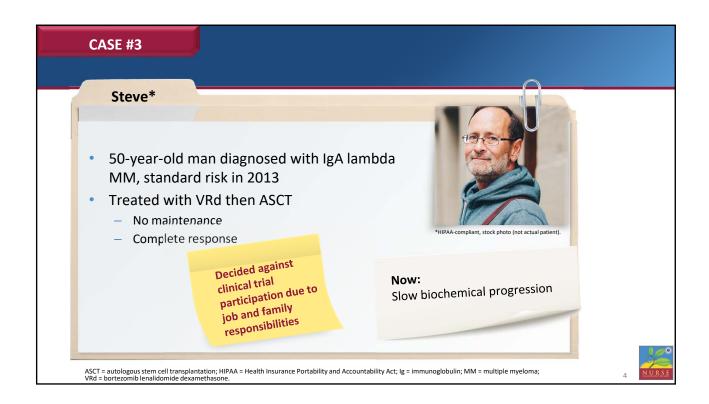
HIPAA = Health Insurance Portability and Accountability Act

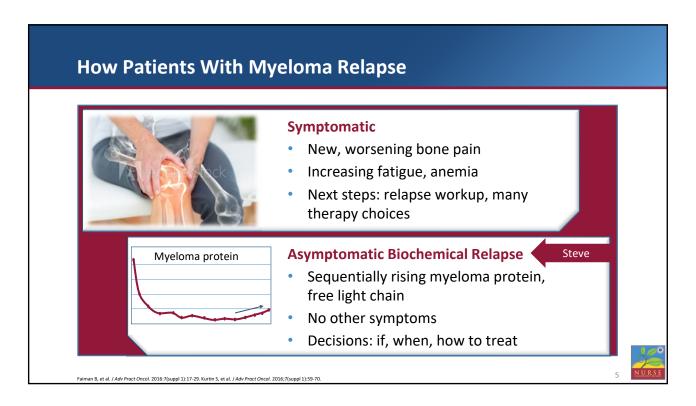
Objectives

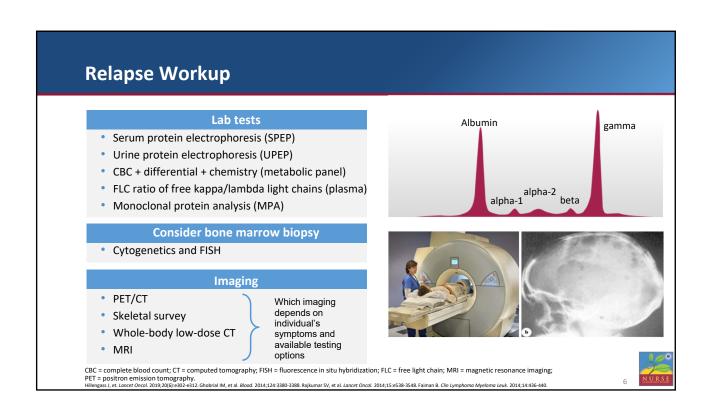
- Identify common treatment regimens in early relapsed multiple myeloma
- Apply knowledge of nursing management of patients with multiple myeloma, including effective symptom management

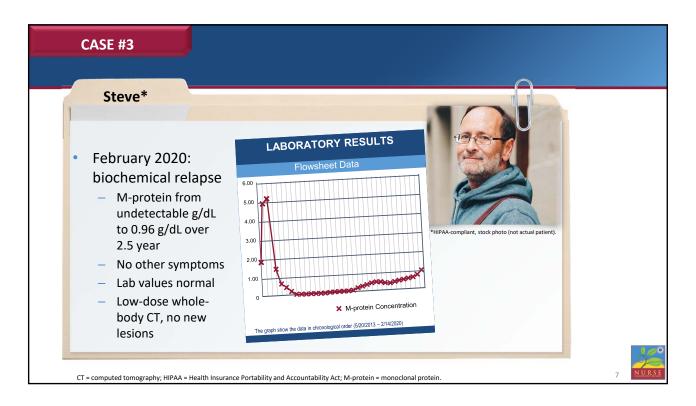
NURSE INTRODUCTION



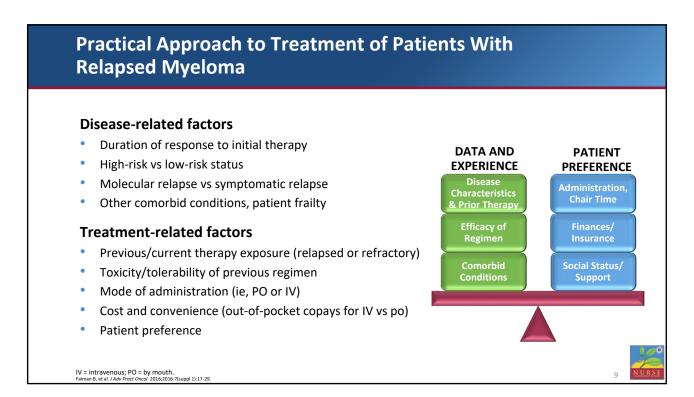








Prior Therapi	
FDA-approved myeloma therapies	Common Combinations
Bortezomib (SC admin)	VRd, Vd
enalidomide	VRd, Rd
Carfilzomib	KRd, Kd, Kd-Dara
omalidomide ^a	Pd, DPd, EPd, PCd
azomib	IRd
Daratumumab	Dara-Rd, Dara-Vd, Dara-Pd, Dara-VMP, Dara-Kd
Elotuzumab	ERd, EPd
satuximab ^a	Isa-Pd
New agents or regimens i	n clinical trials are always an option



Carfilzomib (K): IV Proteasome Inhibitor

IV proteasome inhibitor, indications:

- In combination with dex or len-dex in patients with relapsed or refractory
 MM who have received 1-3 lines of therapy
- As a single agent in patients with relapsed or refractory multiple myeloma who have received 1 or more lines of therapy

Clinical pearls

- Escalate dose
- Dose-dependent 10- or 30-min infusion
- Hydration but not overhydration
- Premedication (dex)
- Aspirin vs full anticoagulation
- Monitor blood counts, response
- Monitor for infection

- Herpesvirus prophylaxis
- Know cardiac and pulmonary status and optimize heart failure and blood pressure management
- Diuretic (furosemide or torsemide) or inhalers if needed
- Avoid dyspnea over the weekend; start new patients first dose early in the week

Kd 20/70 mg/m² Once weekly 30-min infusion

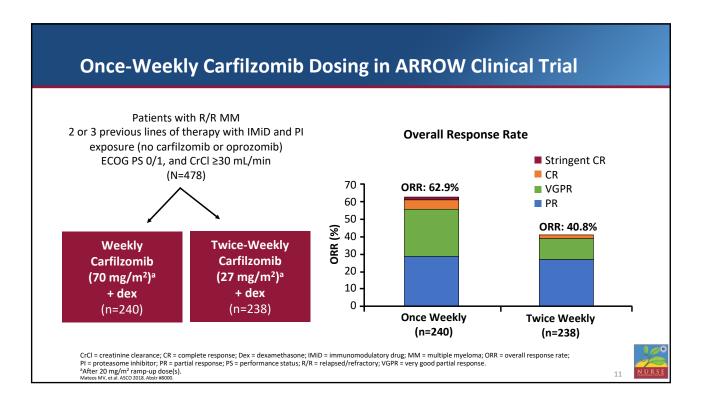
Kd or K 20/56 mg/m² Twice weekly 30-min infusion

KRd or K 20/27 mg/m² Twice weekly 10-min infusion

d or dex = dexamethasone; IV = intravenous; K = carfilzomib; Kd = carfilzomib dexamethasone; KRd = carfilzomib lenalidomide dexamethasone; len = lenalidomide; MM = multiple myeloma.

Stewart K = 1.8 Fagil Med. 2015;372:142-152. Kyprolis* (carfilzomib) Prescribing Information.

NUE



CANDOR Phase 3: Carfilzomib Dexamethasone ± Daratumumab in Patients With R/R MM

Design

- Multicenter, randomized phase 3
 - 466 patients with R/R MM 1-3 prior therapies
 - ECOG PS 0-2; CrCl ≥20 mL/min; LVEF ≥40%

Results

Median time to first response was 1 month in the KdD and Kd arms

Responses, %	KdD (n=312)	Kd (n=154)
ORR	84.3*	74.7*
VGPR or better	69.2	48.7
CR or better	28.5	10.4
MRD negative at 12 months (10 ⁻⁵ threshold)	17.6	3.9
MRD-negative CR at 12 months (10 ⁻⁵ threshold)	12.5 [†]	1.3 [†]
Best MRD-negative CR (10 ⁻⁵ threshold)	13.8	3.2

^{*} $P = .0040. \, ^{\dagger}P < .0001.$

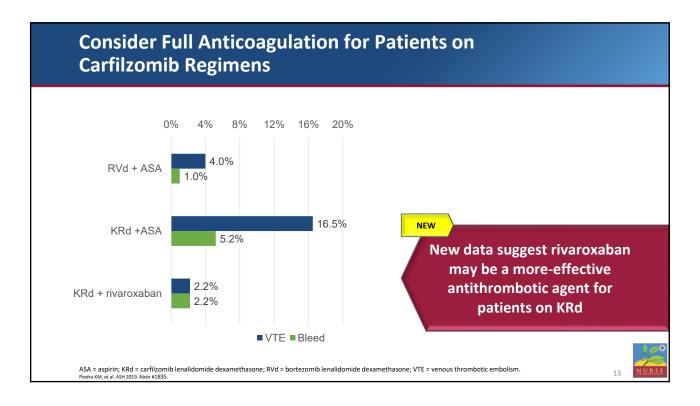
CR = complete response; CrCl = creatinine clearance; ECOG = Eastern Cooperative Oncology Group; Kd = carfilzomib dexamethasone; KdD = carfilzomib dexamethasone daratumumab; len = lenalidomide; LVEF = left ventricular ejection fraction; MM = multiple myeloma; MRD = minimal residual disease; ORR = overall response rate; PS = performance teatus; R/R = relapsed/refractory; VGPR = very good partial response.

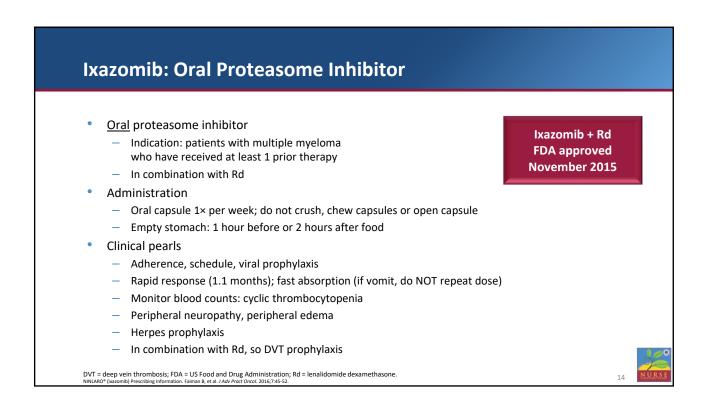
Usumai SZ, et al. 487 1019. Abstr #BLA-6.

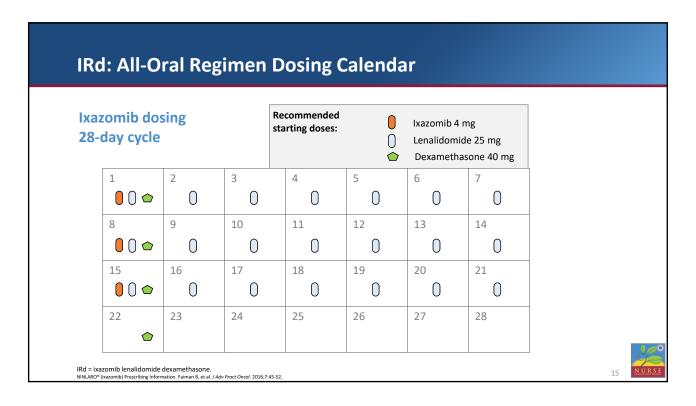
CANDOR Conclusions

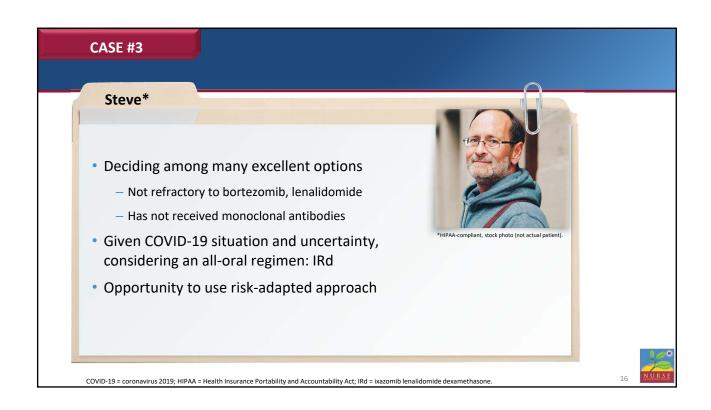
- 37% reduction in risk of progression or death with KdD compared with Kd
- 10× higher MRD-negative CR rate with KdD compared with Kd
- PFS benefit maintained for lenrefractory patients



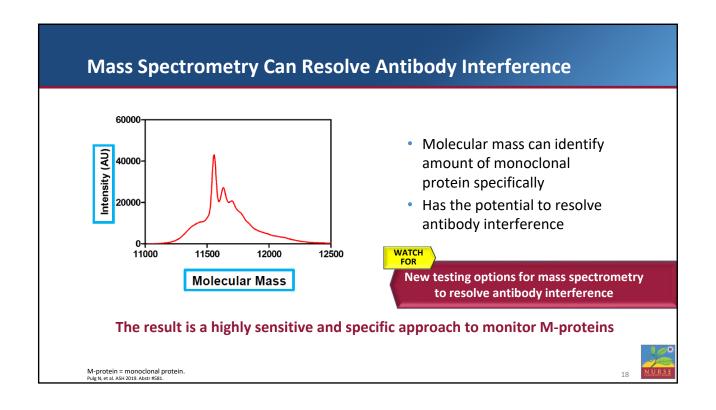


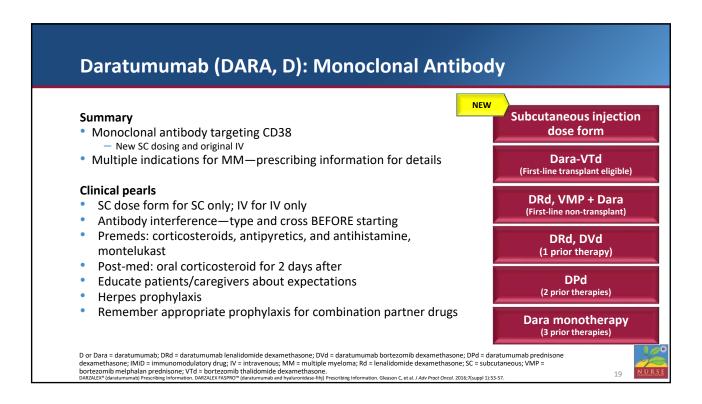


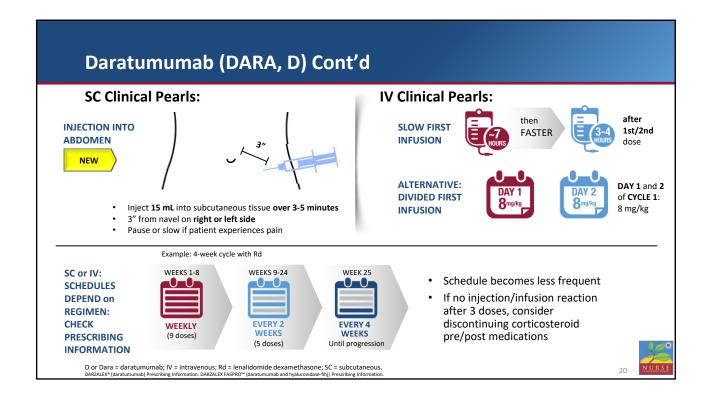


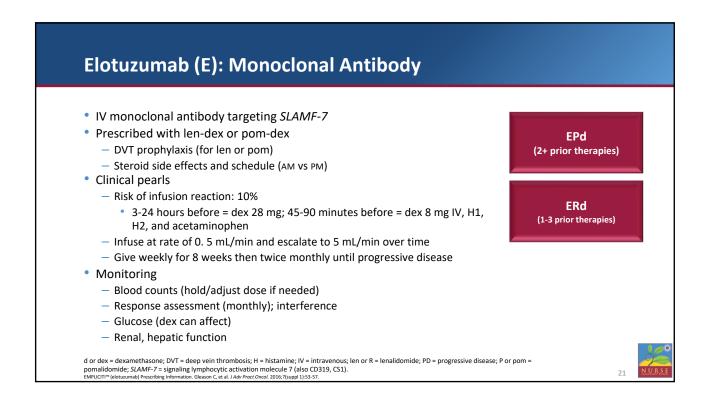


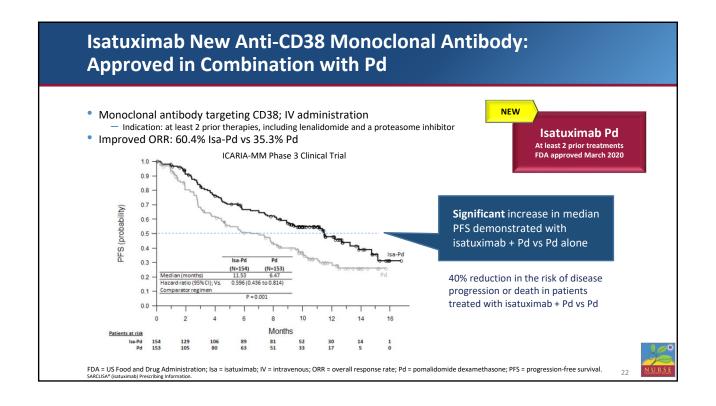
Special Considerations With Antibody Therapy Potential interference with laboratory tests Albumin gamma - Co-migration of therapeutic antibody with M-protein: overestimation of M-protein and reduced CR rates alpha-2 Solutions Awareness Laboratory assays to minimize effects IgG antibody (eg, high-resolution mass spectrometry) therapy and IgG myeloma Daratumumab, elotuzumab, and isatuximab are all IgG antibodies CR = complete response; Ig = immunoglobulin; M-protein = monoclonal protein. Mills JR, Murray DL. J Appl Lab Med. 2017;1(4):421-431.











Isatuximab: Safety and Clinical Pearls

Safety

- IRR (38%): the most-common AR specific to isatuximab
- Isa-Pd common ARs: cytopenias, IRR, infections, dyspnea, GI ARs

Dosing

- Slower first and second infusions
- Weekly for 4 weeks then every 2 weeks



Clinical pearls

- IRR protection: premedicate with
 - Dexamethasone: 40 mg oral or IV (or 20 mg for patients ≥75 years)
 - Acetaminophen: 650 mg to 1000 mg
 - H2 antagonists
 - Diphenhydramine: 25 mg to 50 mg oral or IV; IV preferred for at least the first 4 infusions
- Antibody interference—type and cross BEFORE starting
- In combo with pomalidomide + dex: DVT prophylaxis
- Herpes prophylaxis

NEW DATA No dose adjustments for isatuximab

New regimens: Isa-KRd regimen in newly diagnosed high-risk MM at ASCO 2020

Discontinue if IRR Grade ≥3

AR = adverse reaction; ASCO = American Society of Clinical Oncologists; dex = dexamethasone; DVT = deep vein thrombosis; GI = gastrointestinal; H = histamine; Isa = isatuximab; IRR = infusion rate reaction; IV = intravenous; KRd = carfilzomib lenalidomide dexamethasone; ORR = overall response rate; Pd = pomalidomide dexamethasone; PFS = progression-free survival.

SARCLISA* (satusmab) Prescribing Information. Weslet k, et al. ASCO 2020. Abstr #8508.

at ASCO 2020

NURSI

Pomalidomide

- Oral immunomodulatory drug active in R-refractory patients
- Indication: at least 2 prior therapies, including R and a PI, and have demonstrated disease progression on or within 60 days of completion of the last therapy
- Monitor
 - Blood counts—neutropenia most-frequent Grade 3/4 AE
 - Liver function
 - Response
- Proactive AE management
- Clinical pearls
 - Adherence and REMS
 - DVT prophylaxis
 - Monitor blood counts (neutropenia), liver enzymes
 - Refrain from smoking (reduces pom exposure)
 - Protect renal health (renal excretion of pom)
 - Hydration
 - Avoid NSAIDS, IV contrast, other drugs with renal interactions

AE = adverse event; Dara = daratumumab; DVT = deep vein thrombosis; EPd = elotuzumab pomalidomide dexamethasone; FDA = US Food and Drug Administration; IV = intravenous; NSAID = nonsteroidal anti-inflammatory drug; Pd = pomalidomide dexamethasone; PI = proteasome inhibitor; R = lenalidomide; REMS = Risk Evaluation and Mitigation Strategies.

POMALYST® (pomalidomide) Prescribing Information. Faiman B, et al. J Adv Proct Oncol. 2016;7:45-52





