



Elderly patients or patients with NDMM who are ‘not’ eligible to receive HDT and autologous transplantation

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Updated IMWG Criteria for Diagnosis of Multiple Myeloma

MGUS

- M protein < 3 g/dL
- Clonal plasma cells in BM < 10%
- No myeloma defining events

Smoldering Myeloma

- M protein ≥ 3 g/dL (serum) or ≥ 500 mg/24 hours (urine)
- Clonal plasma cells in BM $\geq 10\%$ to 60%
- No myeloma defining events

Multiple Myeloma

- Underlying plasma cell proliferative disorder
- AND
- 1 or more myeloma defining events including either:
 - ✓ ≥ 1 **CRAB** feature(s)
 - OR
 - ✓ ≥ 1 **Biomarker Driven**

C: Calcium elevation (> 11 mg/dL or > 1 mg/dL above ULN)

R: Renal insufficiency (creatinine clearance < 40 mL/min or serum creatinine > 2 mg/dL)

A: Anemia (Hb < 10 g/dL or 2 g/dL $<$ normal)

B: Bone disease (≥ 1 lytic lesions on skeletal radiography, CT, or PET-CT)

Biomarker driven

- Sixty-percent ($\geq 60\%$) clonal PCs by BM
- Serum free light chain ratio involved:uninvolved ≥ 100
- > 1 focal lesion detected by MRI

BM, bone marrow; CT, computed tomography; Hb, hemoglobin; IMWG, International Myeloma Working Group; MGUS, monoclonal gammopathy of undetermined significance; PET, positron emission tomography; ULN, upper limit of normal.

Rajkumar SV, et al. Lancet Oncol. 2014;15:e538-e548.

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General eligibility requirements

- ▶ **Eligibility for autologous HCT in MM varies across countries and institutions.**
- ▶ In most European countries, transplantation for MM is offered primarily to **patients younger than 65 years of age.**
- ▶ In the United States (US), a strict age limit is not used. Instead, decisions are made on a case-by-case basis **based on "physiologic age" and vary across institutions**

What Drives the Approach to Frontline Therapy?



Risk Stratification

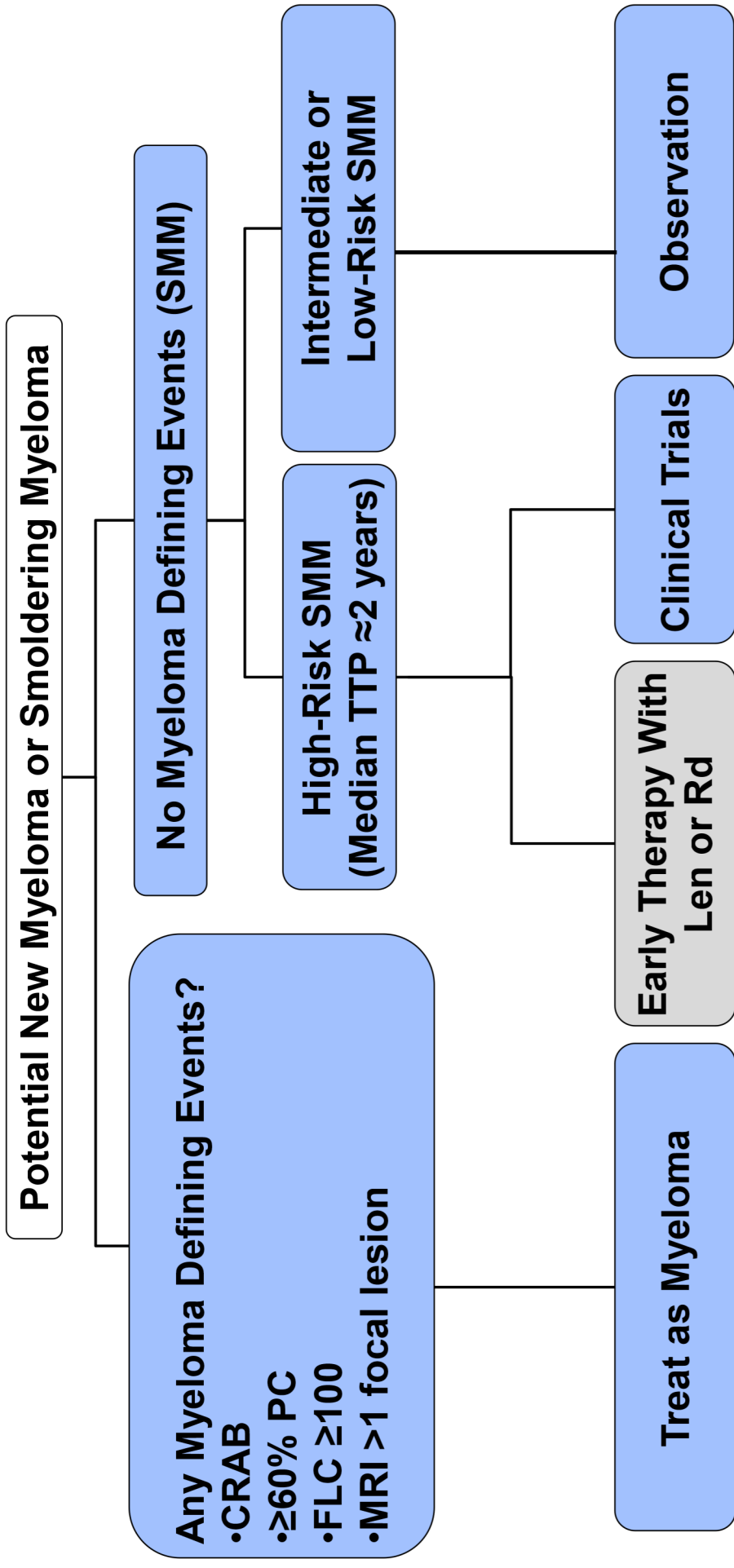
- Standard risk
 - Trisomic, t(11;14)
- High risk
 - t(4;14), t(14;16), t(14;20)
 - Gain(1q), del(17p), p53^{mut}
 - Double/triple hit



Transplant Eligibility

- Age
- Performance status
- Comorbidities

When Should Treatment Be Initiated?



Selecting Treatment for MM: General Principles

Patient	Disease	Treatment	Regimen
<ul style="list-style-type: none"> ▪ Age/frailty ▪ Performance status ▪ Lifestyle ▪ Patient preference ▪ Caregiver support ▪ Comorbidities <ul style="list-style-type: none"> – Renal status – Neuropathy – Cardiac – Diabetes – Cytopenias 	<ul style="list-style-type: none"> ▪ Disease burden: ISS <ul style="list-style-type: none"> – Rate of progression – Marrow burden – CRAB symptoms – Extramedullary disease ▪ Biology <ul style="list-style-type: none"> – LDH – Cytogenetics: <ul style="list-style-type: none"> • t(4;14) • del(17p) • t(14;16) • amp(1q) • t(11;14) 	<ul style="list-style-type: none"> ▪ Toxicity <ul style="list-style-type: none"> – Myelosuppression – Infections – Neuropathy – Secondary cancers – Ocular toxicity ▪ Cost ▪ Administration route ▪ Relapsed vs refractory ▪ Depth/duration of response to any prior treatment 	<ul style="list-style-type: none"> ▪ Triplet* (eg, VRd) is preferred over doublet ▪ Include ≥1 agent from a new or nonrefractory class ▪ Previously used agents may be effective in different combinations ▪ Treat to maximum response ▪ Maintain on ≥1 agent until progression or intolerance

*2 active classes plus dexamethasone.

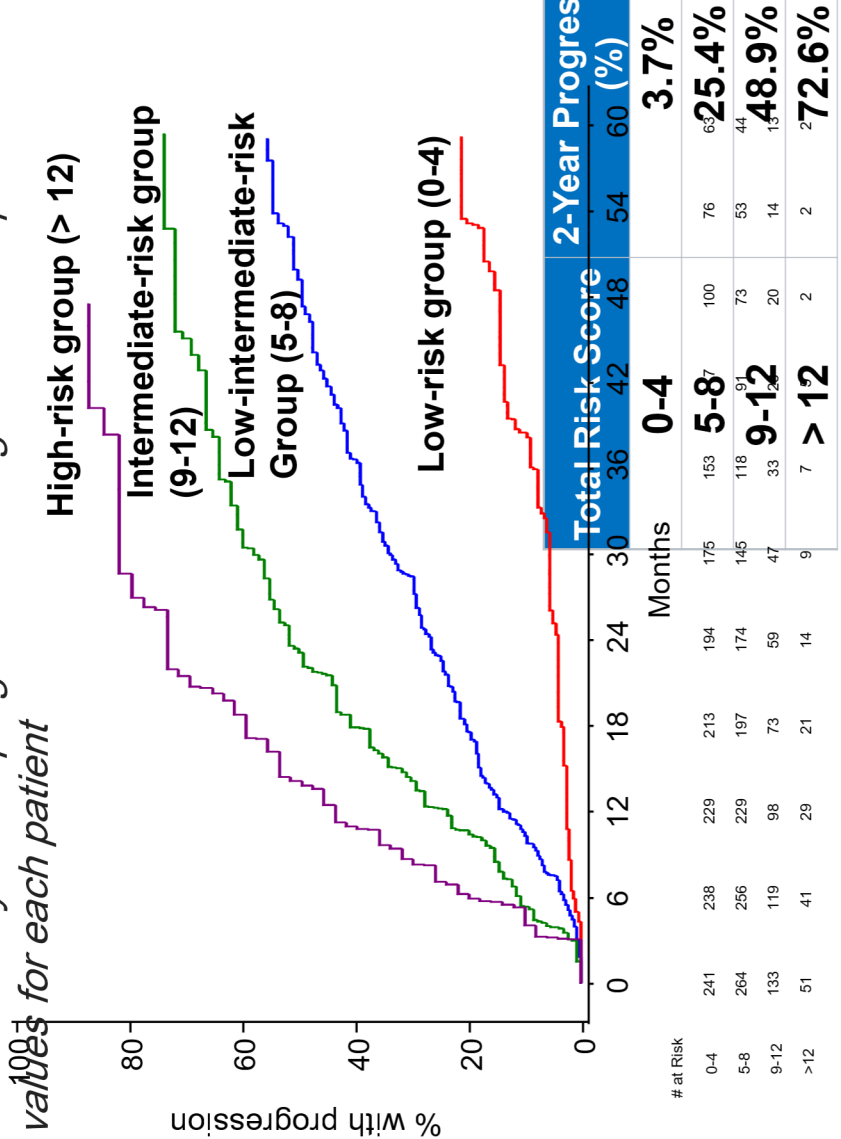


Slide credit: clinicaloptions.com

Laubach. Leukemia. 2016;30:1005. NCCN. clinical practice guidelines in oncology: multiple myeloma (v6.2021). Sanchez. Expert Rev Hematol. 2020;13:943. Sonneveld. 2016;101:396.

IMWG: Risk Score to Predict Progression Risk at 2 Years

A more precise and individualized scoring tool to classify individuals by risk of progression using the entire spectrum of values for each patient



Risk Factor	Coefficient	P-value	Score
FLC Ratio			
0-10 (reference)	-	-	0
> 10-25	0.69	0.014	2
> 25-40	0.96	0.004	3
> 40	1.56	<0.0001	5
M protein (g/dL)			
0-1.5 (reference)	-	-	0
> 1.5-3	0.95	0.0002	3
> 3	1.30	<0.0001	4
BMPC%			
0-15 (reference)	-	-	0
> 15-20	0.57	0.04	2
> 20-30	1.01	0.0002	3
> 30-40	1.57	<0.0001	5
> 40	2.00	<0.0001	6
FISH abnormality			
abnormality	0.83	<0.0001	2




Goals of Therapy in the Setting of Newly Diagnosed MM

Goal: Achieve deepest and most durable response possible

- More aggressive therapy upfront
- Consider risk status, transplant eligibility

Goal: Optimize quality of life

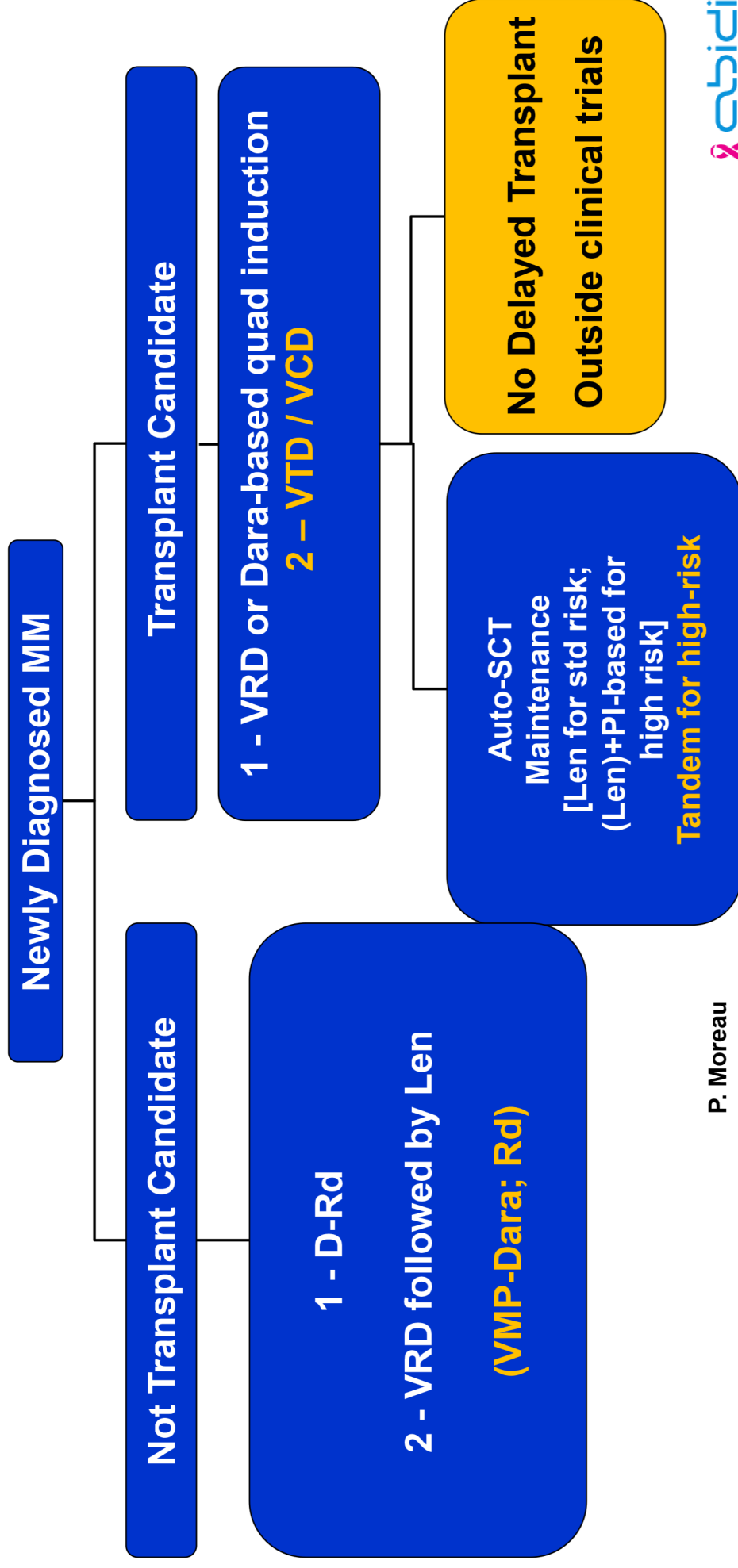
- Balance efficacy with tolerability
- Provide supportive care
- Engage in shared decision making

- 
- ▶ MRD negativity in the BM, defined as the **absence of tumor plasma cells within 1 000 000 BM cells** (<106) shows the best results for the prediction of both PFS and OS compared with higher cut-off values (i.e. 105).
 - ▶ **Outside the BM, PET-CT** is able to recognize hypermetabolic areas in approximately 15%-20% of patients with MRD negativity in the BM and is considered the best method for imaging MRD to date

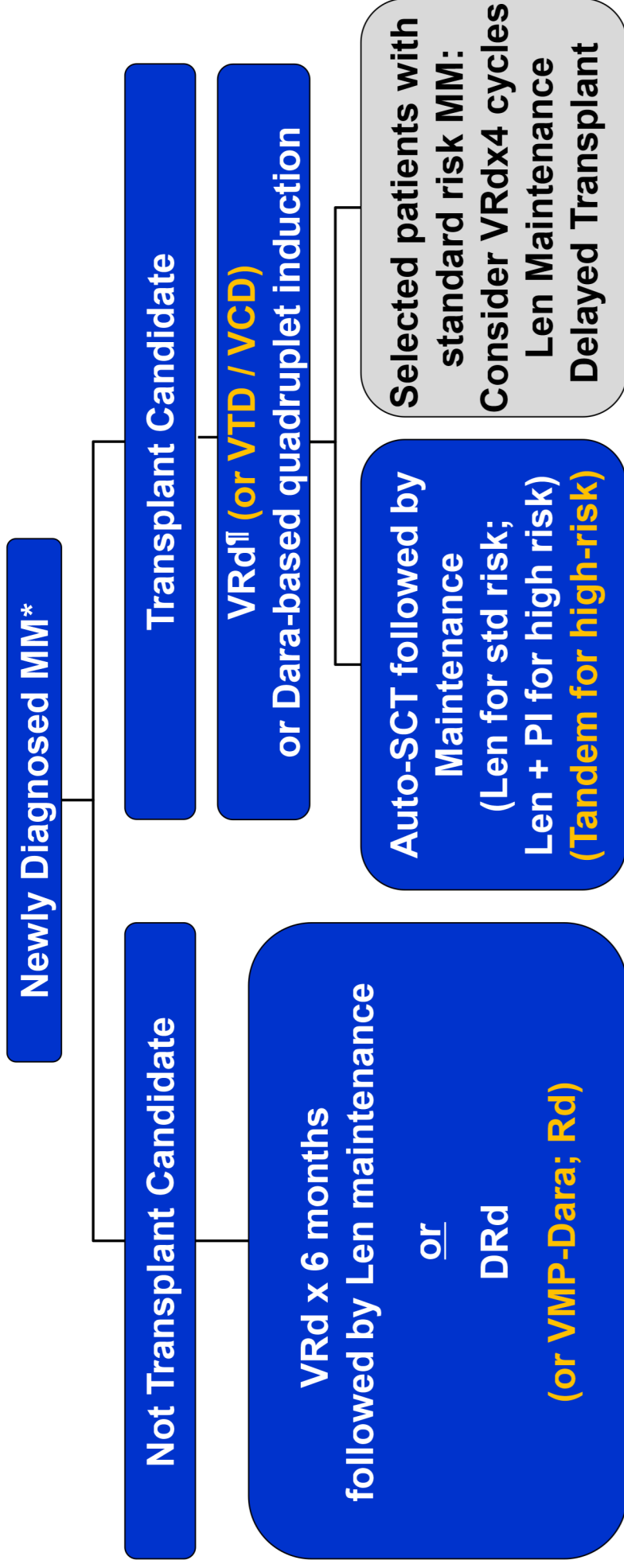
Important issues :

- 1 – Combinations with CD38 antibodies upfront ?**
- 2 – Use of frailty score**
- 3 – Management of AEs**
- 4 – Fixed duration of treatment until progression**

Myeloma: Frontline Treatment



Myeloma: Frontline Treatment

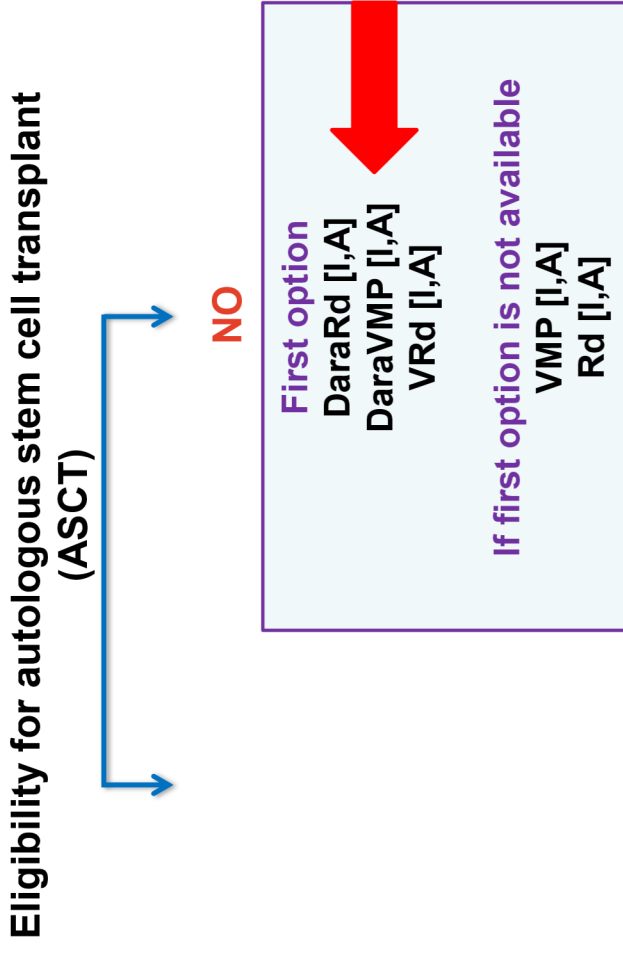


*Based on CALGB 100104, S0777, IFM-2009, CTN 0702, HOVON, MAIA, CASSIOPEIA

^{††} VTd/VCd if VRd not available

Rajkumar SV © 2021 and P. Moreau

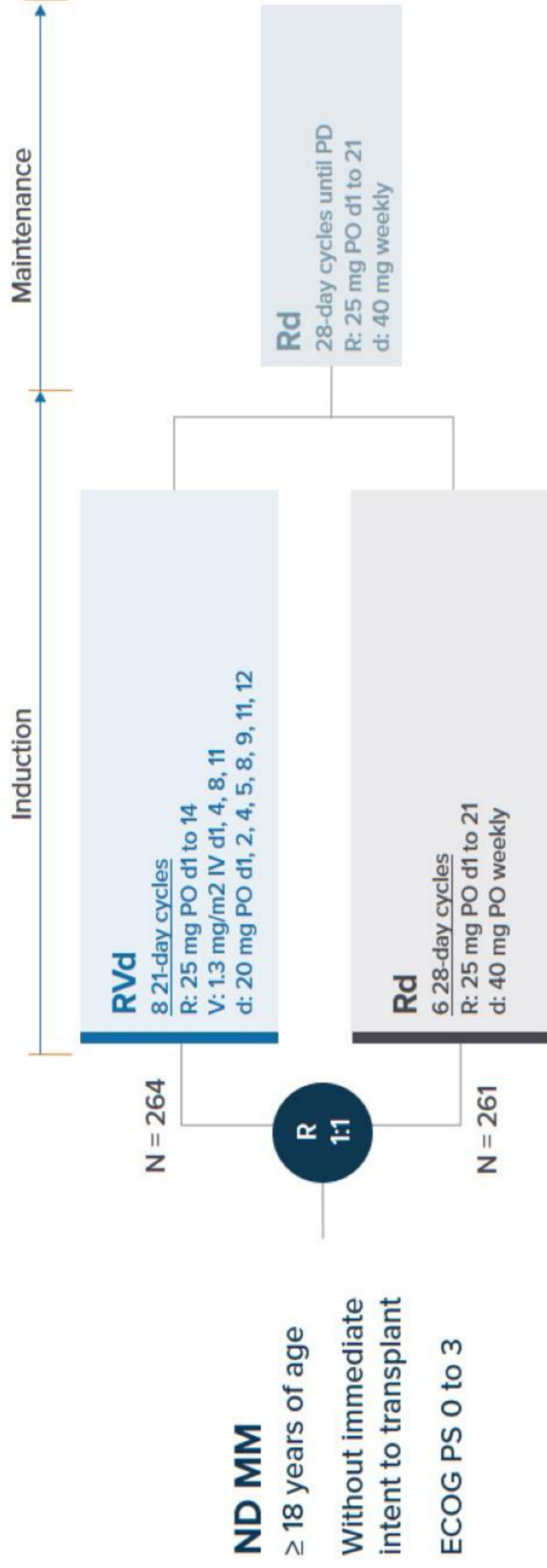
Frontline treatment of symptomatic multiple myeloma outside clinical trials (EHA-ESMO guidelines 2021)



Dimopoulos MA, *et al.* Ann Oncol 2021; 32(3):309-322.

DaraRd, daratumumab/lenalidomide/dexamethasone; DaraVMP, daratumumab/bortezomib/melphalan/prednisone; DaraVTD, daratumumab/bortezomib/thalidomide/dexamethasone; Rd, lenalidomide/dexamethasone; VMP, bortezomib/melphalan/prednisone; VRd, bortezomib/lenalidomide/dexamethasone

Superiority of Triplet RVd vs Rd Established in Phase 3 SWOG S0777 Study



Primary Endpoint: PFS
Secondary Endpoints: OS, ORR, safety

ECOG, Eastern Cooperative Oncology Group; ND, newly diagnosed; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; PS, performance status. Durie B, et al. Lancet. 2017;389:519-527.

Updated analysis SWOG777 – Durie et al Blood Cancer J 2020

Adverse event description	Revlimid/dexamethasone (N = 222)					Velcade/Revlimid/dexamethasone (N = 234)				
	1	2	3	4	5	1	2	3	4	5
Allergy/immunology	12 (5%)	5 (2%)				10 (4%)	4 (2%)	2 (<1%)		
Auditory/ear	1 (<1%)	16 (7%)				1 (<1%)	8 (3%)			
Blood/bone marrow	22 (10%)	53 (24%)	68 (31%)	39 (18%)		27 (12%)	52 (22%)	70 (30%)	44 (19%)	
Cardiac arrhythmia	5 (2%)	4 (2%)	4 (2%)			10 (4%)	3 (1%)	3 (1%)		
Cardiac general	13 (6%)	9 (4%)	8 (4%)			15 (6%)	17 (7%)	21 (9%)		
Coagulation	1 (<1%)		3 (1%)					5 (2%)		
Constitutional symptoms	61 (27%)	77 (35%)	38 (17%)			60 (26%)	84 (36%)	51 (22%)		
Death					1 (<1%)					2 (<1%)
Dermatology/skin	60 (27%)	23 (10%)	9 (4%)			50 (21%)	41 (18%)	7 (3%)	1 (<1%)	
Endocrine	11 (5%)	8 (4%)				7 (3%)	12 (5%)			
Gastrointestinal	77 (35%)	71 (32%)	19 (9%)			64 (27%)	79 (34%)	51 (22%)	2 (<1%)	1 (<1%)
Hemorrhage/bleeding	13 (6%)	2 (<1%)				9 (4%)	3 (1%)	8 (3%)		
Hepatobiliary/pancreas			2 (<1%)							
Infection	1 (<1%)	31 (14%)	27 (12%)	4 (2%)		1 (<1%)	33 (14%)	34 (15%)	7 (3%)	1 (<1%)
Lymphatics	58 (26%)	19 (9%)	1 (<1%)			73 (31%)	26 (11%)	4 (2%)		
Metabolic/laboratory	56 (25%)	58 (26%)	51 (23%)	13 (6%)		50 (21%)	58 (25%)	57 (24%)	8 (3%)	
Musculoskeletal/soft tissue	25 (11%)	25 (11%)	16 (7%)	1 (<1%)		15 (6%)	31 (13%)	24 (10%)		
Neurology	78 (35%)	44 (20%)	21 (9%)	3 (1%)	1 (<1%)	42 (18%)	70 (30%)	77 (33%)	4 (2%)	
Ocular/visual	21 (9%)	8 (4%)	11 (5%)			39 (17%)	17 (7%)	6 (3%)		
Pain	44 (20%)	29 (13%)	10 (5%)			55 (24%)	43 (18%)	28 (12%)		
Pulmonary/upper respiratory	42 (19%)	27 (12%)	9 (4%)	1 (<1%)		56 (24%)	17 (7%)	15 (6%)	5 (2%)	
Renal/genitourinary	3 (1%)	2 (<1%)	9 (4%)	1 (<1%)		10 (4%)	3 (1%)	6 (3%)		
Secondary malignancy			5 (2%)	1 (<1%)				5 (2%)	2 (<1%)	
Sexual/reproductive function	1 (<1%)	1 (<1%)	1 (<1%)			3 (1%)	1 (<1%)			
Syndromes			2 (<1%)			1 (<1%)	2 (<1%)	4 (2%)		
Vascular		7 (3%)	15 (7%)	6 (3%)		1 (<1%)	9 (4%)	20 (9%)	4 (2%)	

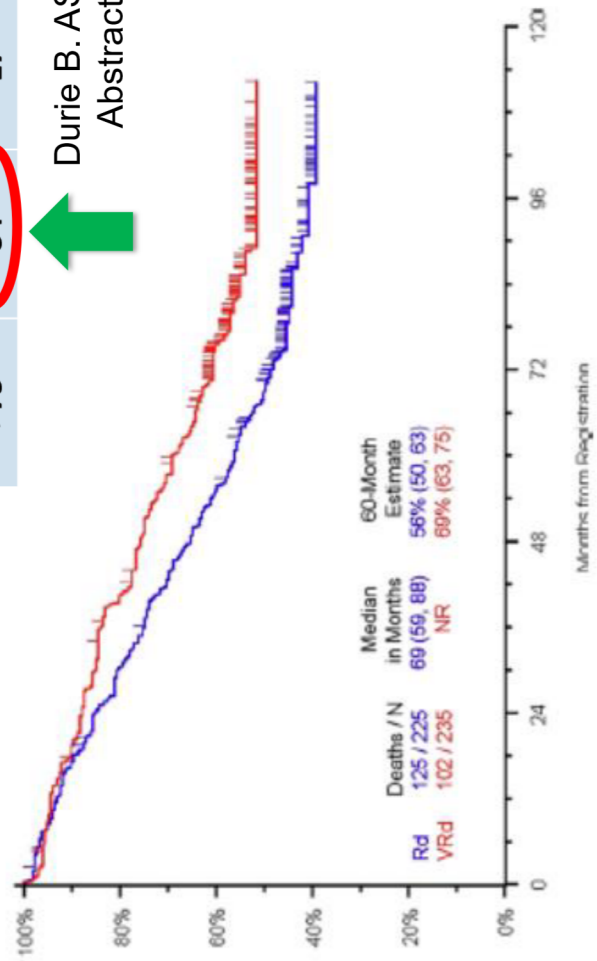


Updated analysis SWOG777 – Durie et al Blood Cancer J 2020

Age (years)	VRd	Rd
<65	48	34
≥65	34	24
>75	34	17

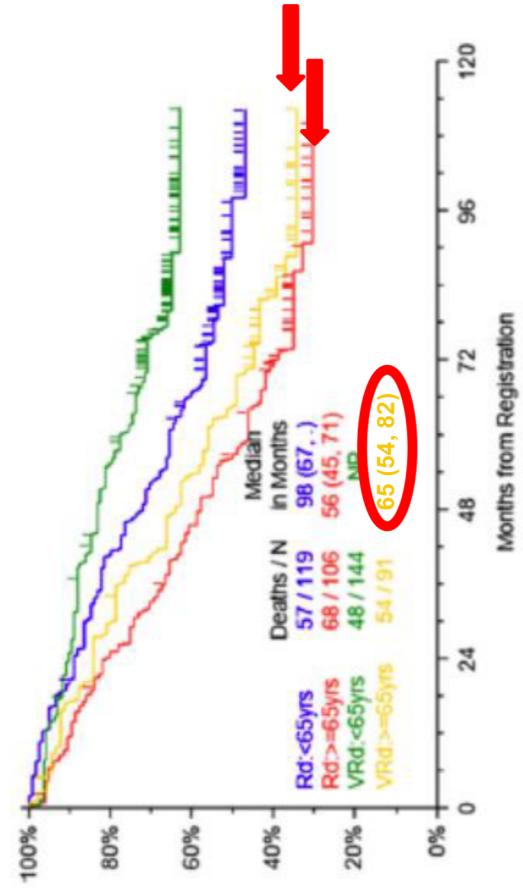
← Durie B. ASH 2018.
Abstract 1992.

Median PFS (months)



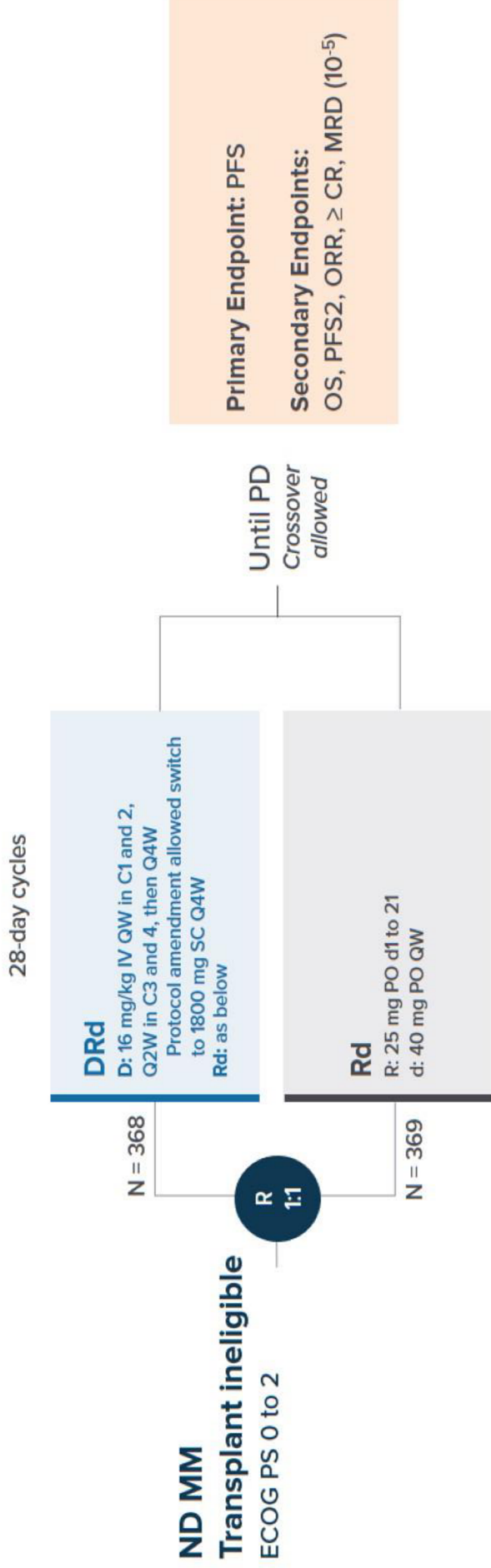
OS at 5 years
Median follow-up 84 months

4a. Overall Survival by Age



Age < 65 years: HR= 0.640 (0.421,0.973); stratified, two-sided p= 0.028
Age ≥ 65 years: HR= 0.769 (0.520,1.138); stratified, two-sided p= 0.168

MAIA Evaluated Anti-CD38-Based Triplet DRd vs Rd in Transplant-Ineligible ND MM



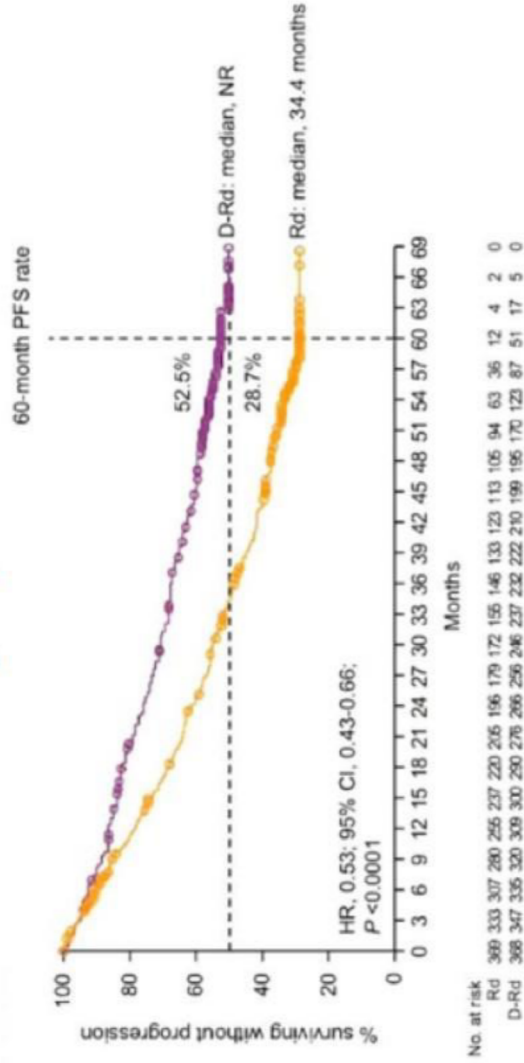
- 78% of patients were ≥ 70 years of age

CR, complete response; MRD, minimal residual disease; PFS2, time to second progression or death. Facon T, et al. Lancet Oncol. 2021;22:1582-1596.

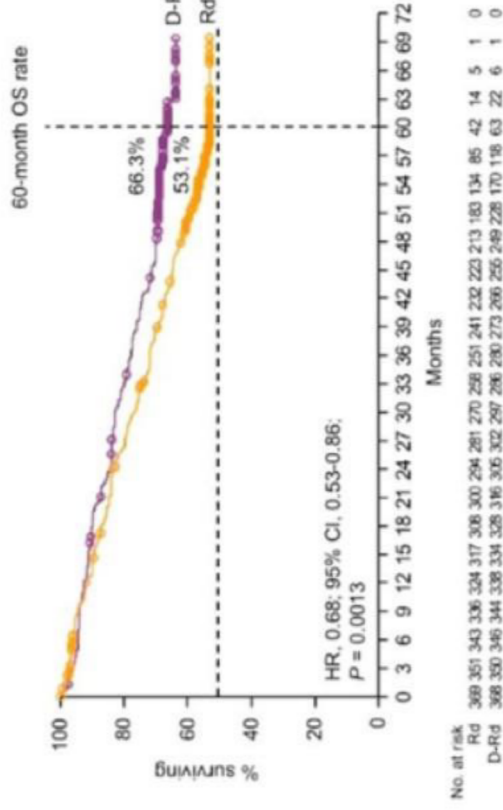
DRd Triplet Set PFS Benchmark in Transplant-Ineligible MM

PFS

Primary endpoint



OS

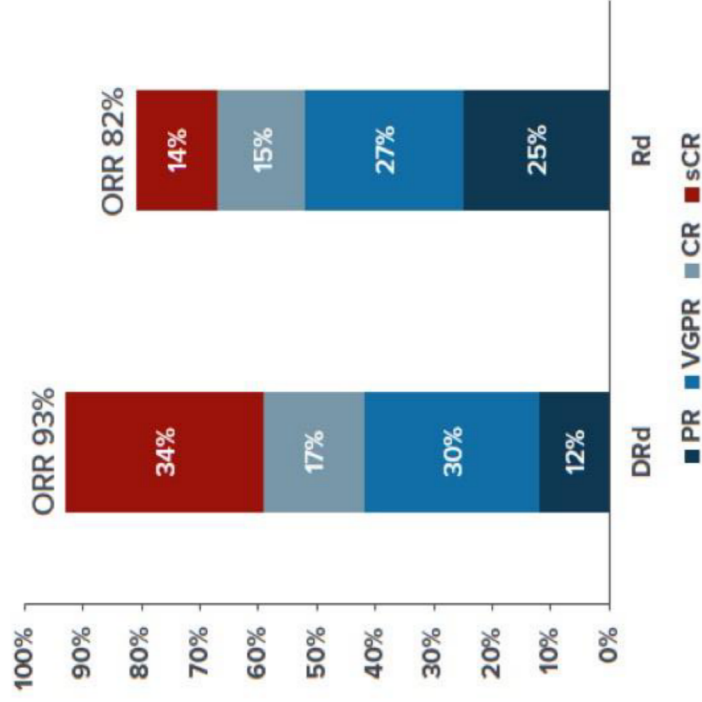


Median PFS remains not yet reached with
DRd after ~ 5 years follow-up

NR, not reached.
Facon T, et al. HemaSphere. 2021;5:LB1901.

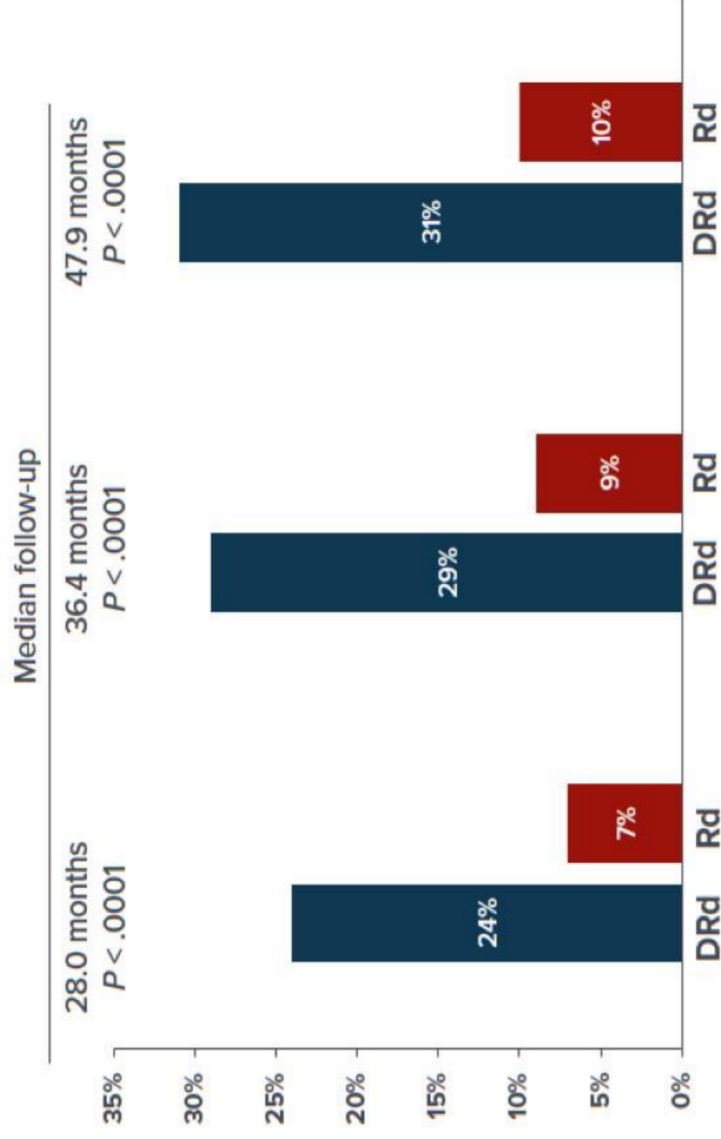
Significantly Higher Rates of MRD Negativity With DRd Triplet

Overall Response



sCR, stringent complete response; VGPR, very good partial response.
Kumar SK, et al. Blood. 2020;136:24-26.

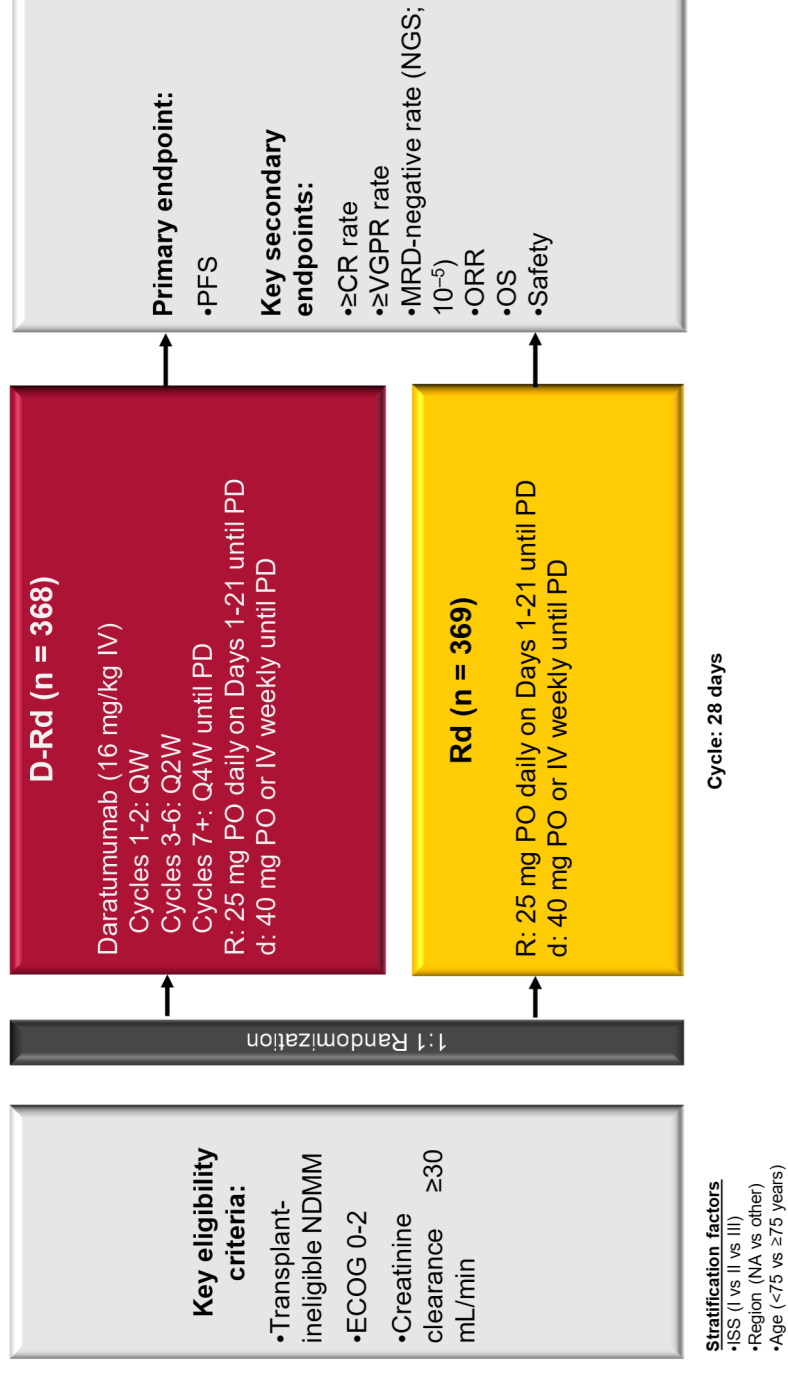
MRD Negativity



DRd was associated with higher rates of neutropenia and infection vs Rd, but less than half the rate of TRAE-related discontinuation

MAIA: study design

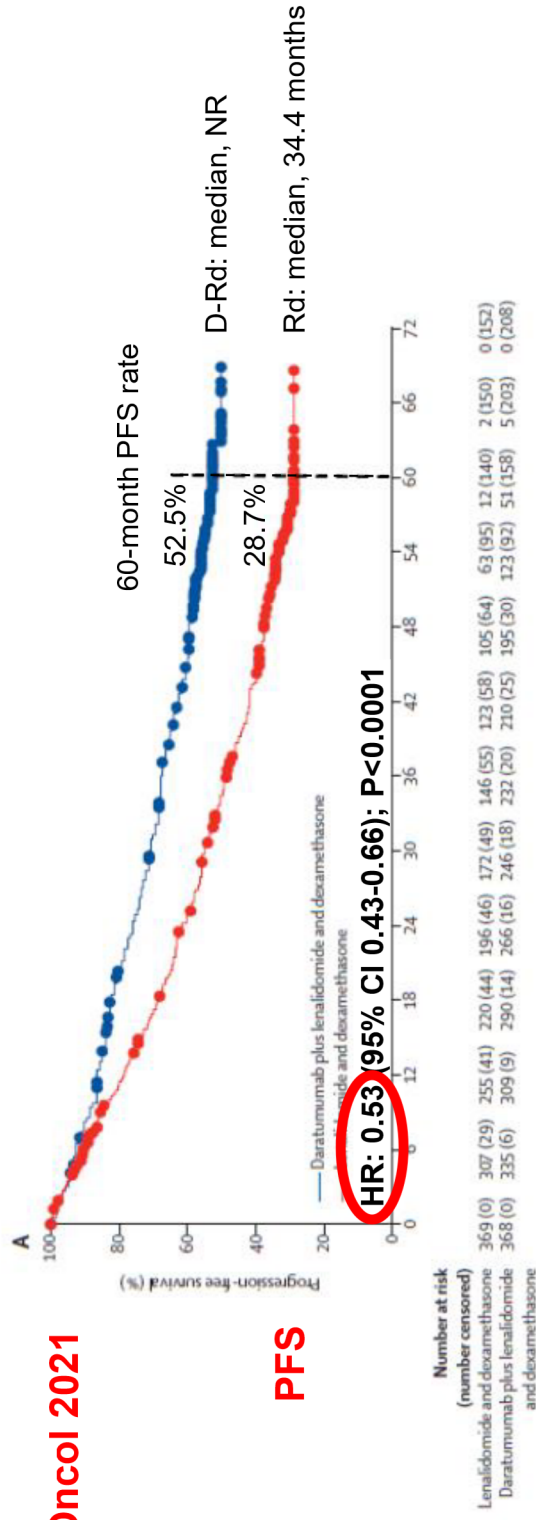
- Phase 3 study of D-Rd vs Rd in transplant-ineligible NDMM (N = 737)



Facon T et al. N Eng J Med 2019;380:2104-2115

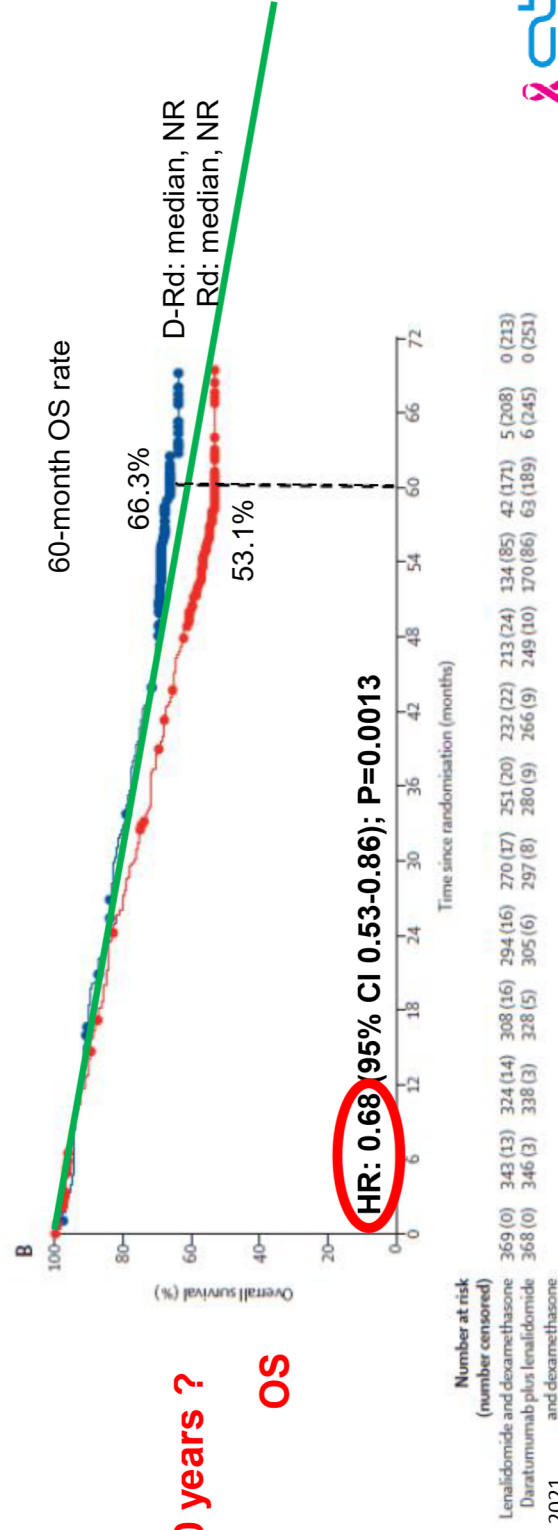
Facon et al. Lancet Oncol 2021

PFS



Median Survival : 10 years ?

OS



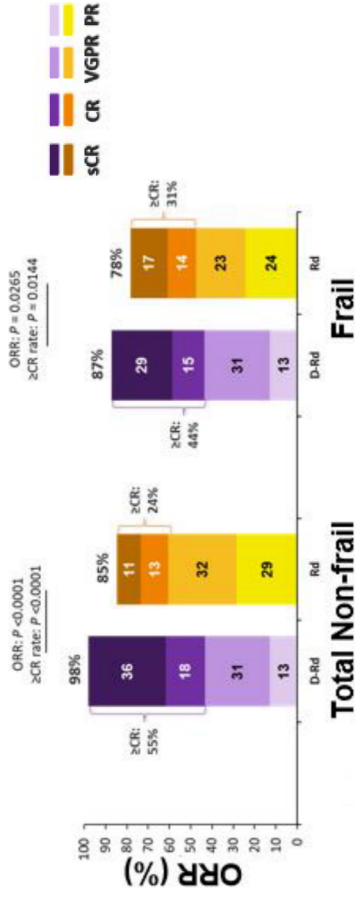
Thierry Facon et al., Lancet Oncol 2021,
[https://doi.org/10.1016/S1470-2045\(21\)00466-6](https://doi.org/10.1016/S1470-2045(21)00466-6)



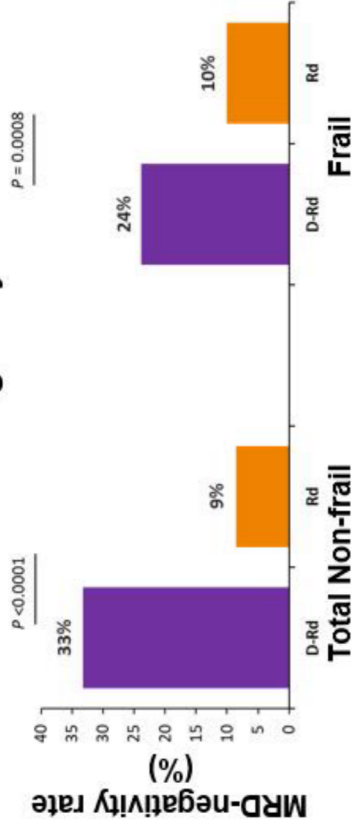
MYLODEQ®
Lenalidomide

Frailty subgroup analysis of MAIA

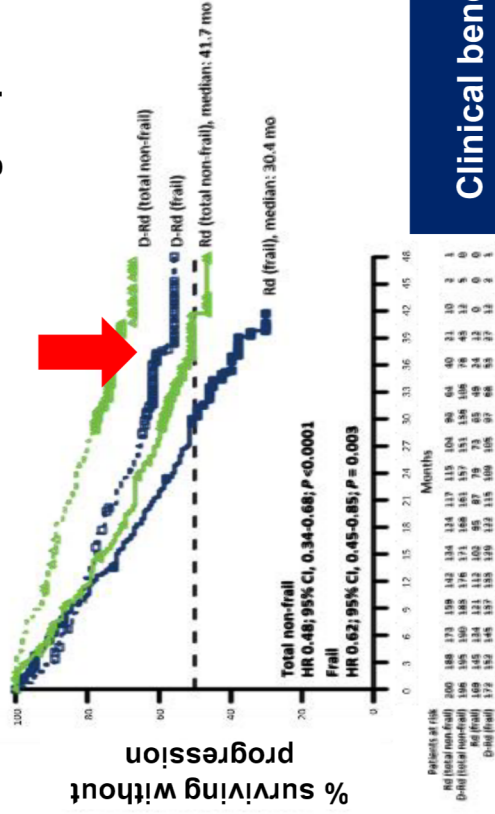
ORR and ≥CR rate



MRD-negativity



PFS in the total non-frail and frail subgroups



n (%)	Total Non-frail (n=395)		Frail (n=334)	
	D-Rd (n=196)	Rd (n=199)	D-Rd (n=168)	Rd (n=166)
Patients with a TEAE with outcome of death	7 (4)	7 (4)	20 (12)	20 (12)
Patients with a serious TEAE	123 (63)	126 (63)	125 (74)	121 (73)
Treatment discontinuations due to TEAEs	13 (7)	31 (16)	17 (10)	32 (19)
Deaths	26 (13)	46 (23)	57 (34)	57 (34)

Clinical benefit of D-Rd, regardless of frailty status

DRd vs Rd: adverse events

	D-Rd (n = 364)		Rd (n = 365)	
	Any grade	Grade 3 or 4	Any grade	Grade 3 or 4
Hematologic, n (%)				
Neutropenia	207 (57)	182 (50)	154 (42)	129 (35)
Anemia	126 (35)	43 (12)	138 (38)	72 (20)
Thrombocytopenia	68 (19)	27 (7)	69 (19)	32 (9)
Lymphopenia	66 (18)	55 (15)	45 (12)	39 (11)
Nonhematologic, n (%)				
Diarrhea	207 (57)	24 (7)	168 (46)	15 (4)
Constipation	149 (41)	6 (2)	130 (36)	1 (<1)
Fatigue	147 (40)	29 (8)	104 (28)	14 (4)
Peripheral edema	140 (38)	7 (2)	107 (29)	2 (<1)
Back pain	123 (34)	11 (3)	96 (26)	11 (3)
Asthenia	117 (32)	16 (4)	90 (25)	13 (4)
Nausea	115 (32)	5 (1)	84 (23)	2 (<1)
Pneumonia	82 (23)	50 (14)	46 (13)	29 (8)
Deep vein thrombosis, pulmonary embolism, or both	43 (12)	23 (6)	49 (13)	23 (6)

- Rate of IRRs for D-Rd was 41% (grade 3/4: 3%)
- Incidence of invasive SPMs was 3% for D-Rd and 4% for Rd
 - Hematologic SPM was 0.5% in each arm
- TEAEs with outcome of death were 7% for D-Rd and 6% for Rd

Facon et al., ASH 2018; abstract LB-2
Facon T et al. N Engl J Med. 2019;380:2104-15.

Expert Perspectives: Transplant-Ineligible ND MM

Considerations when selecting between preferred regimens: RVd and DRd

Expert Perspectives: Transplant-Ineligible ND MM

Considerations when selecting between preferred regimens: RVd and DRd

Efficacy

- Both regimens offer superior efficacy over the Rd doublet^[a,b]

a. Durie B, et al. Lancet. 2017;389:519-527; b. Facon T, et al. Lancet Oncol. 2021;22:1582-1596.

Expert Perspectives: Transplant-Ineligible ND MM

Considerations when selecting between preferred regimens: RVd and DRd

Efficacy	Route of administration	Safety profile
<ul style="list-style-type: none">Both regimens offer superior efficacy over the Rd doublet^[a,b]	<ul style="list-style-type: none">Subcutaneous formulations allow greater ease of administration and less logistical strain on patients	<ul style="list-style-type: none">PIs associated with risk of peripheral neuropathy^[a]Anti-CD38s associated with risk of infection^[b]

PI, proteasome inhibitor.

a. Durie B, et al. Lancet. 2017;389:519-527; b. Facon T, et al. Lancet Oncol. 2021;22:1582-1596.

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IMiD, immunomodulatory drug; PI, proteasome inhibitor.

a. Durie B, et al. Lancet. 2017;389:519-527; b. Facon T, et al. Lancet Oncol. 2021;22:1582-1596; c. Sonneveld P, et al. Blood. 2016;127:2955-2962.

Expert Perspectives: Transplant-Ineligible ND MM

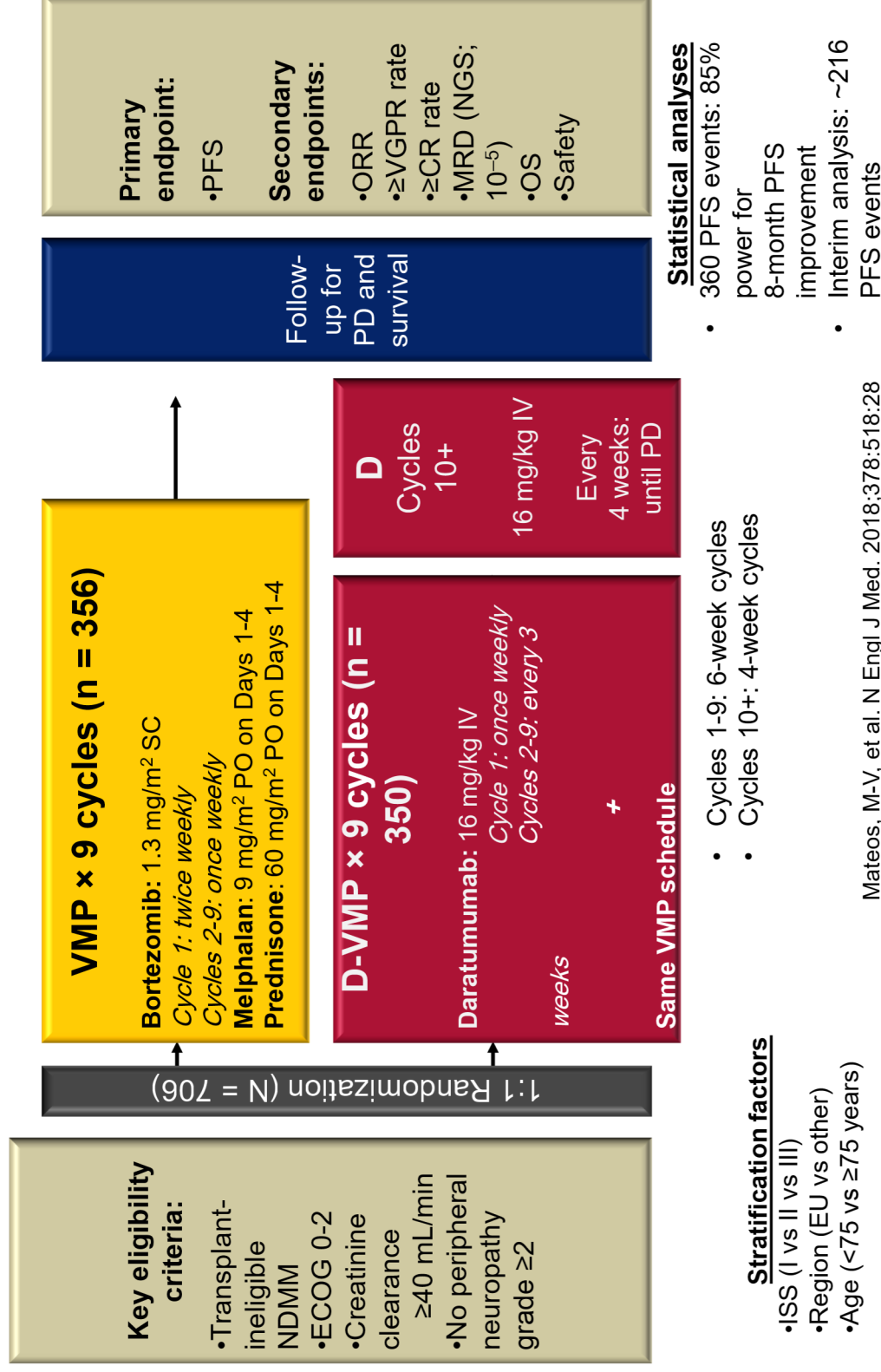
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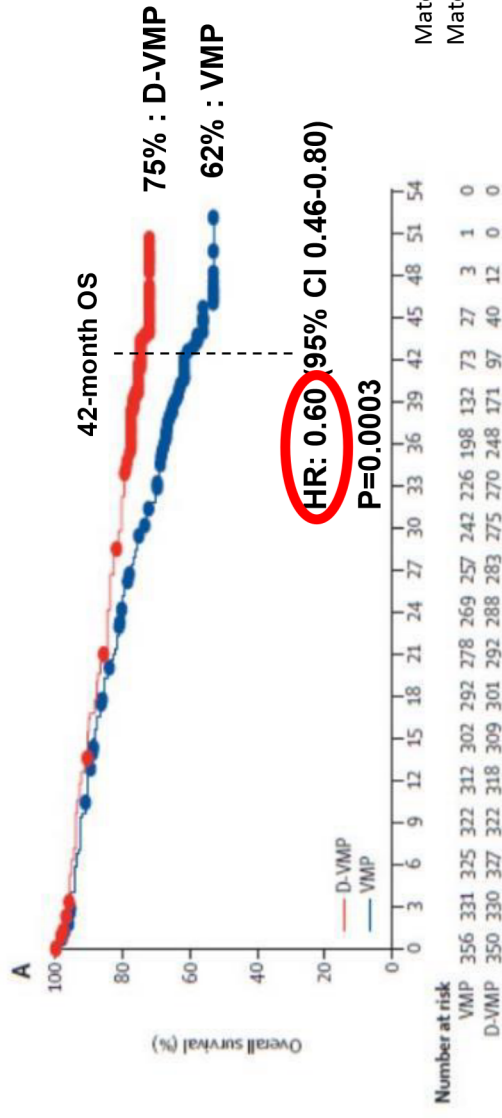
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ALCYONE phase 3 study of daratumumab + VMP in NDMM

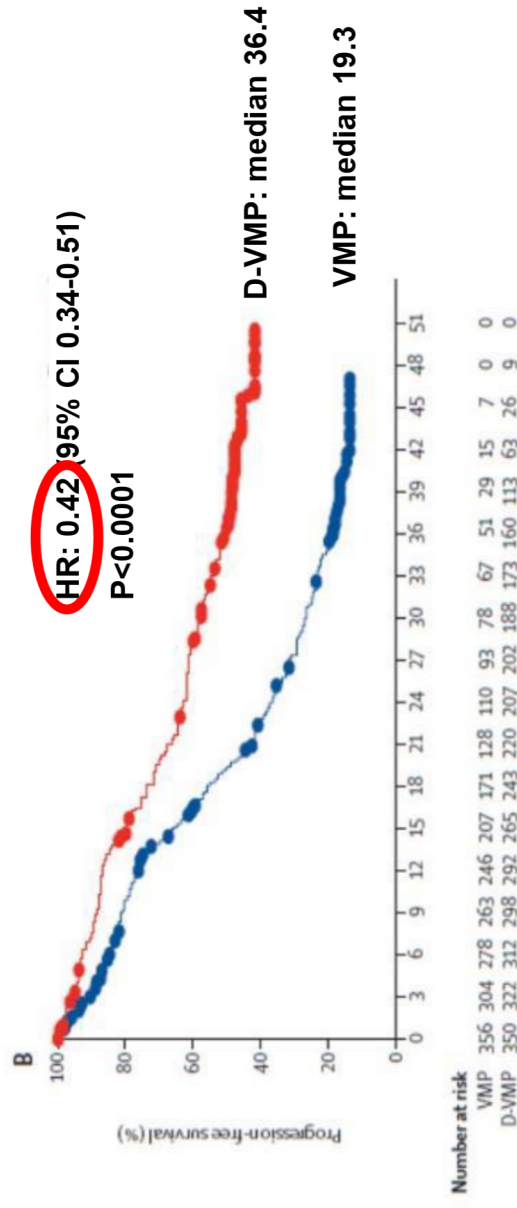


OS



Mateos et al Lancet 2020; 395: 132–41
Mateos et al. ASH 2019. Abstract 859.

PFS



Median follow-up: 40.1 months

Table 3. Most Common Adverse Events during Treatment in the Safety Population.*

Event	Daratumumab Group (N = 346)		Control Group (N = 354)	
	Any Grade	Grade 3 or 4	Any Grade	Grade 3 or 4
	number of patients (percent)			
Hematologic adverse events				
Neutropenia	172 (49.7)	138 (39.9)	186 (52.5)	137 (38.7)
Thrombocytopenia	169 (48.8)	119 (34.4)	190 (53.7)	133 (37.6)
Anemia	97 (28.0)	55 (15.9)	133 (37.6)	70 (19.8)
Nonhematologic adverse events				
Peripheral sensory neuropathy	98 (28.3)	5 (1.4)	121 (34.2)	14 (4.0)
Diarrhea	82 (23.7)	9 (2.6)	87 (24.6)	11 (3.1)
Pyrexia	80 (23.1)	2 (0.6)	74 (20.9)	2 (0.6)
Nausea	72 (20.8)	3 (0.9)	76 (21.5)	4 (1.1)
Infections	231 (66.8)	80 (23.1)	170 (48.0)	52 (14.7)
Upper respiratory tract infection	91 (26.3)	7 (2.0)	49 (13.8)	5 (1.4)
Pneumonia	53 (15.3)	39 (11.3)	17 (4.8)	14 (4.0)
Second primary cancer†	8 (2.3)	NA	9 (2.5)	NA
Any infusion-related reaction	96 (27.7)	17 (4.9)	NA	NA



Cost-Effectiveness Analysis of Adding Daratumumab to Bortezomib, Melphalan, and Prednisone for Untreated Multiple Myeloma



ORIGINAL RESEARCH
published: 01 March 2021
doi: 10.3389/fphar.2021.608685

Yaohua Cao^{1†}, Lina Zhao^{2†}, Tiantian Zhang^{2,3*} and Weiling Cao^{1*}



Conclusion: In the case that the upper limit of willingness to pay threshold was \$150,000 per QALY from the perspective of US payers, D-VMP was not a cost-effective regimen compared to VMP.

Cost-Effectiveness of First-Line Versus Second-Line Use of Daratumumab in Older, Transplant-Ineligible Patients With Multiple Myeloma

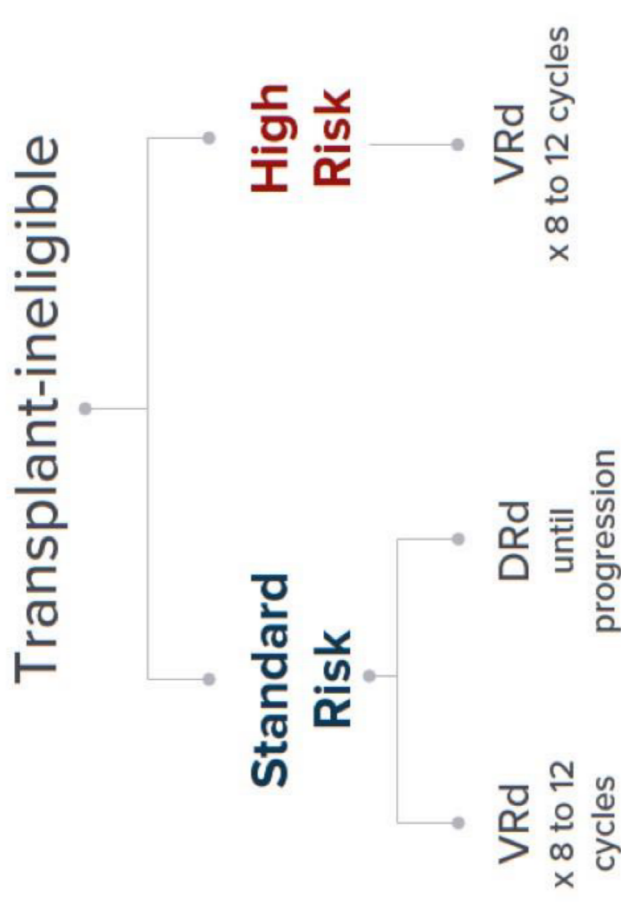
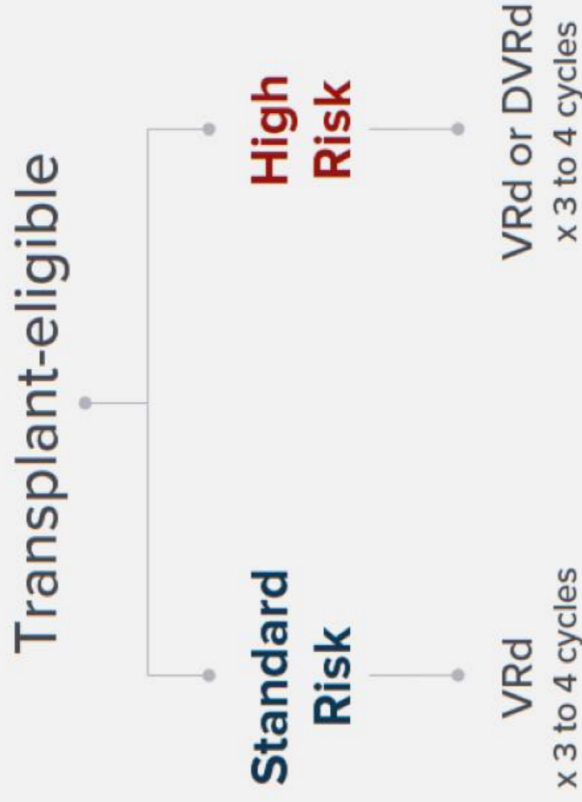
2021 by American Society of Clinical Oncology
Journal of Clinical Oncology®

Kishan K. Patel, BS¹; Smith Giri, MD, MHS²; Terri L. Parker, MD¹; Nofar Bar, MD¹; Natalia Neparidze, MD¹; and Scott F. Huntington, MD, MPH, MSc^{1,3}



CONCLUSION Using daratumumab in the first-line setting for transplant-ineligible patients may not be cost-effective under current pricing. Delaying daratumumab until subsequent lines of therapy may be a reasonable strategy to limit healthcare costs without significantly compromising clinical outcomes. Mature overall survival data are necessary to more fully evaluate cost-effectiveness in this setting.

Preferred Induction Therapies



VRd or DRd? *Factors for Consideration*

Regulatory approval status, accessibility

VRd or DRd? *Factors for Consideration*

Regulatory approval status, accessibility

Patient ability to tolerate the regimen

Shorter vs longer duration therapy?

Patient-Specific Induction Strategies

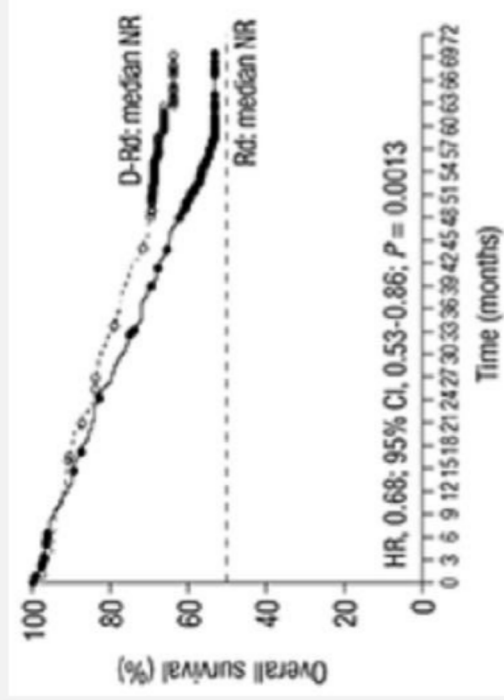
DRd

VRd-Intolerant; Neuropathy^[a]

MAIA^[b,c]

	DRd	Rd
MRD-, %	24	7
mPFS, mo	NR	34

5-Year OS

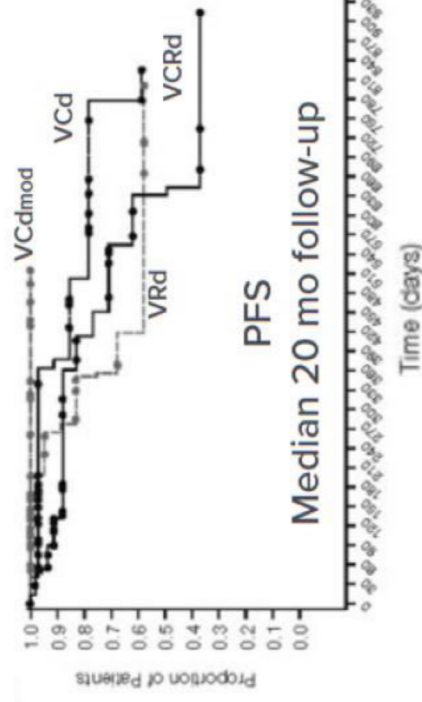


VCd

Acute renal insufficiency, VTE history^[a]

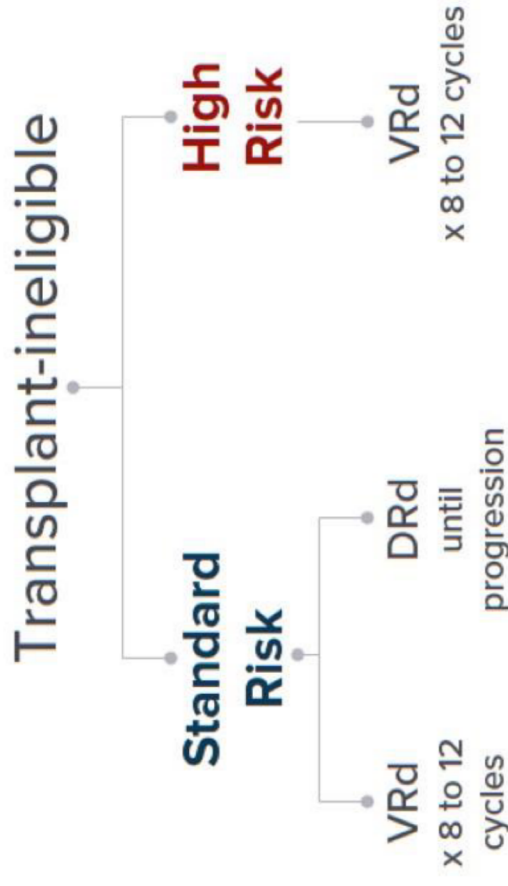
EVOLUTION^[d]

	VCdmod	VCd	VRd	VCRd
ORR, %	100	75	85	88
CR, %	58	10	21	21
MRD-, %	29	0	85	50
1y PFS, %	100	93	83	93

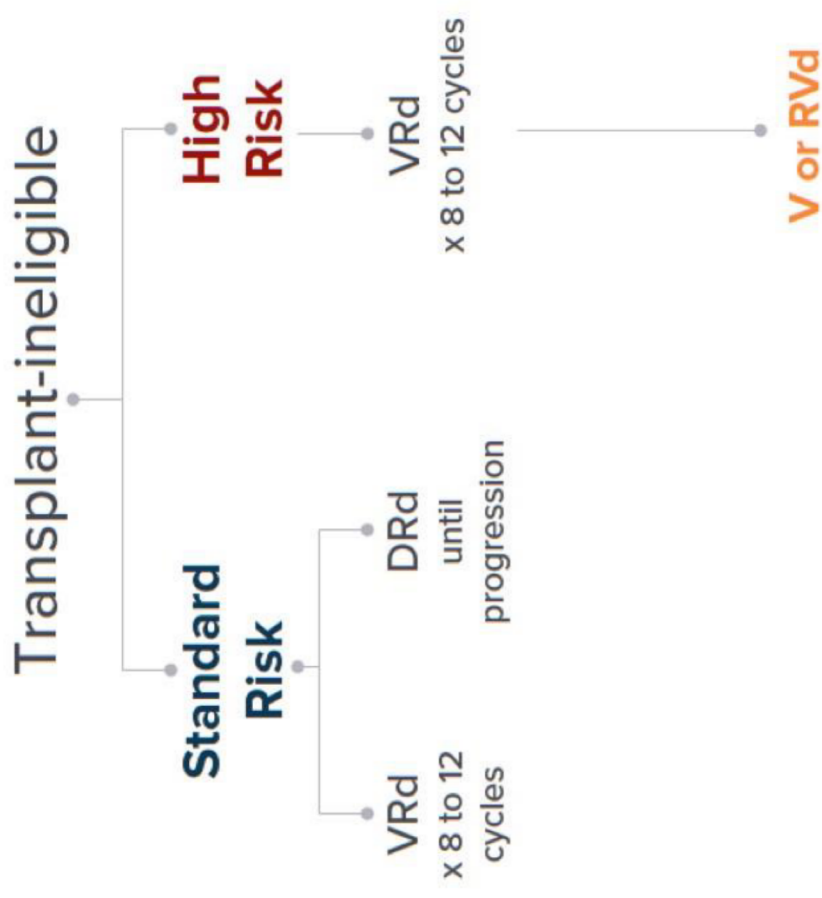
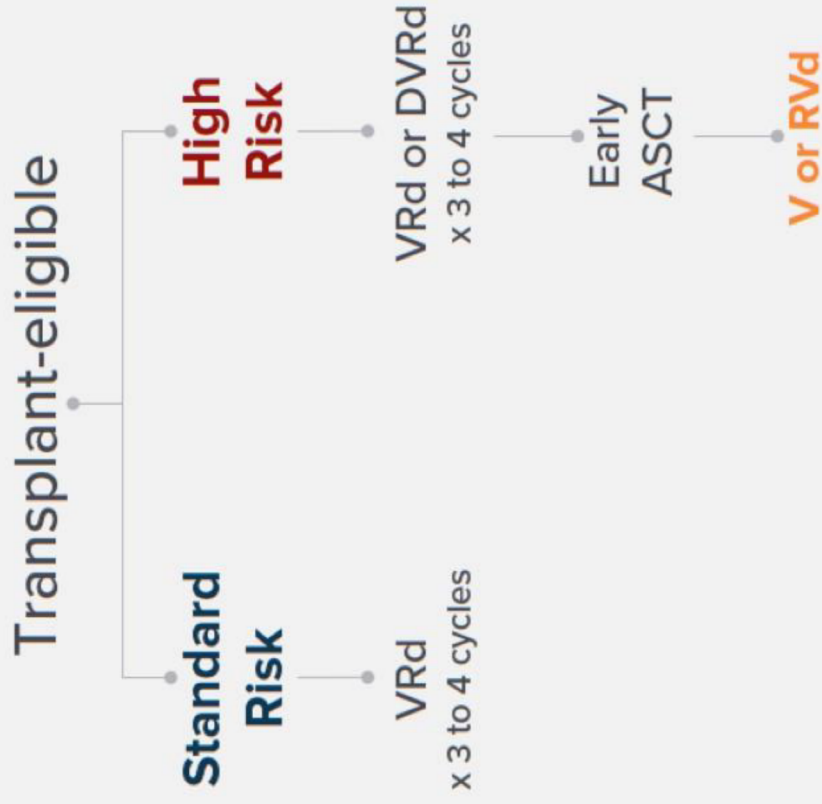


a. Rajkumar SV, et al. *Blood Cancer J.* 2020;10:94; b. Facon T, et al. *N Engl J Med.* 2019;380:2104-2115; c. Facon T. EHA 2021. Abstract LB1901; d. Kumar S, et al. *Blood.* 2012;119:4375-4382.

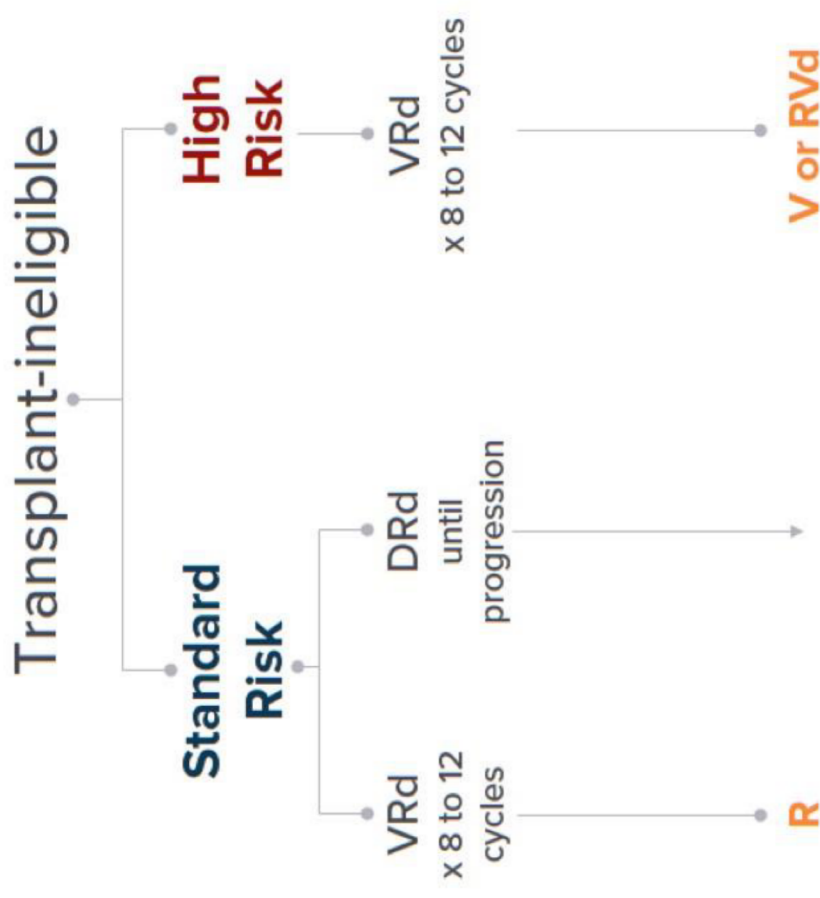
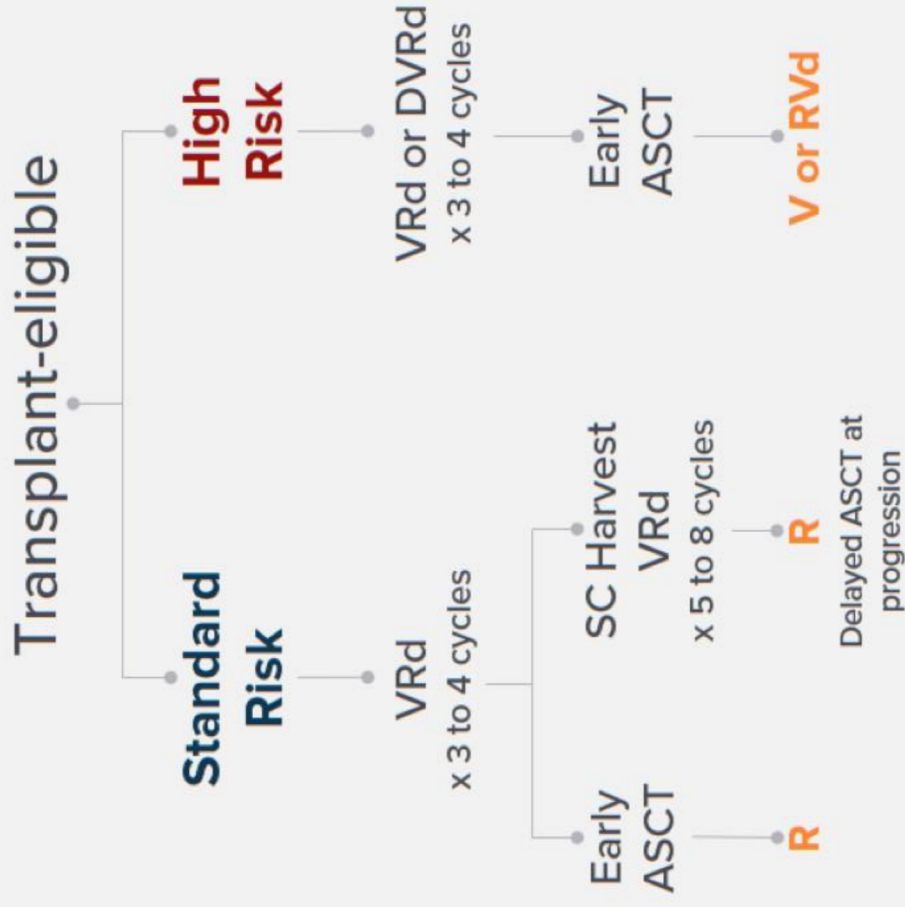
Preferred Maintenance Therapies



Preferred Maintenance Therapies



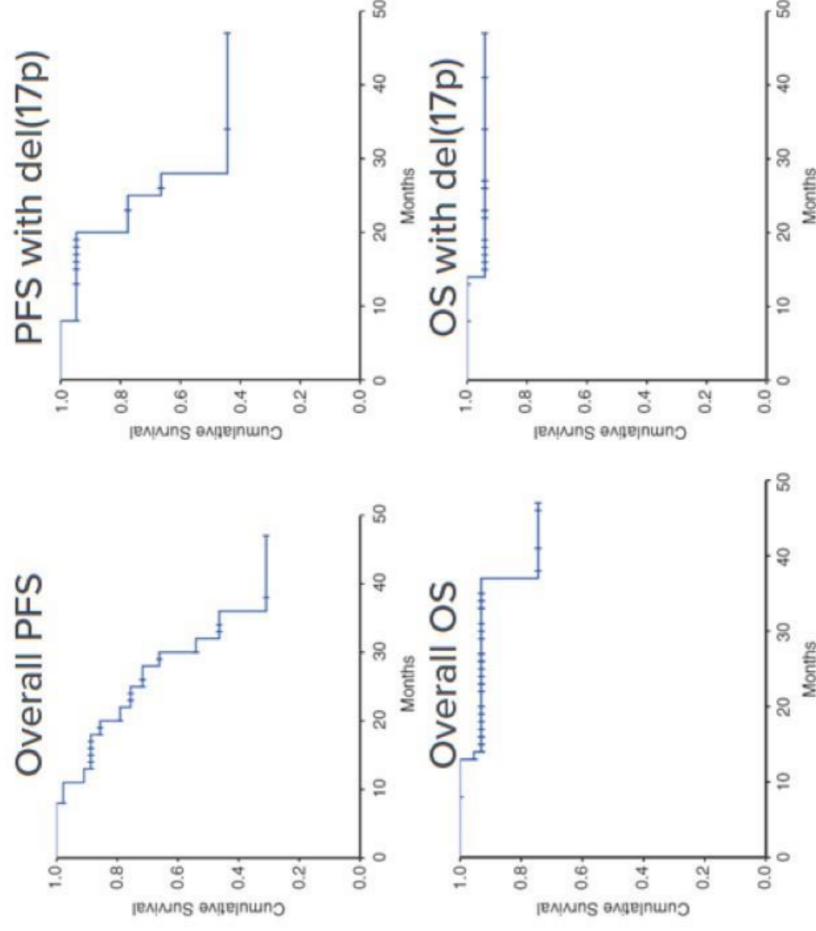
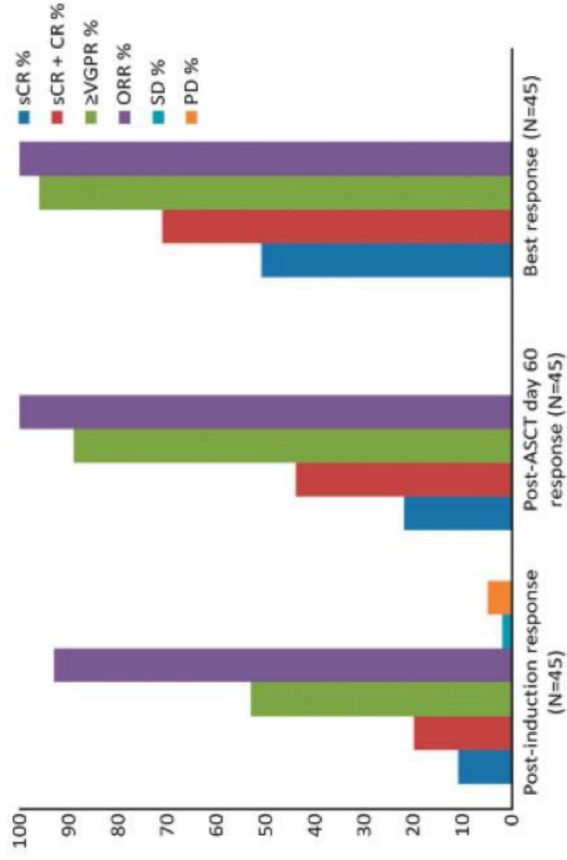
Preferred Maintenance Therapies



Maintenance Strategies in High-Risk MM: VRd

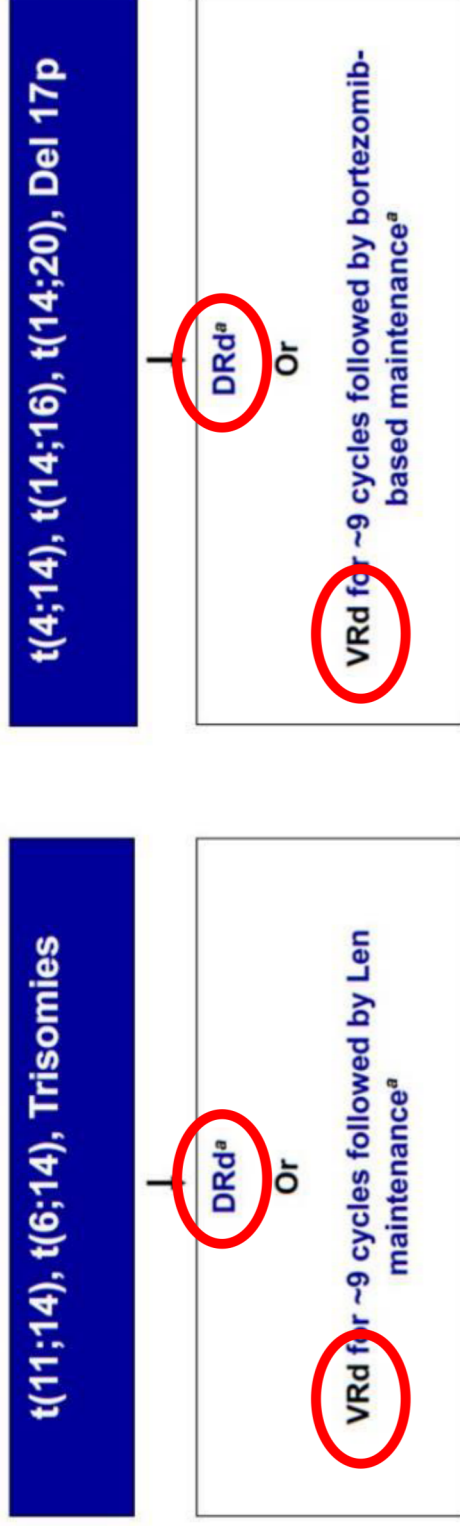
VRd improved survival in high-risk MM, particularly with del(17p)

Response to VRd in All High-Risk Patients



mSMART – Off-Study

Transplant Ineligible



^a Duration is usually until progression, based on tolerance

VRd, Bortezomib, lenalidomide, dexamethasone; DRd, daratumumab, lenalidomide, dexamethasone

Dispenzieri et al. Mayo Clin Proc 2007;82:323-341; Kumar et al. Mayo Clin Proc 2009 84:1095-1110; Mikhael et al. Mayo Clin Proc 2013;88:360-376. v19 //last reviewed Feb 2021

Maintenance therapy

- ▶ **High-risk MM** – Following 8 to 12 cycles of triplet therapy, we offer patients with high-risk MM **proteasome-inhibitor-based maintenance until progression**.
- ▶ **Standard-risk MM** – Following 8 to 12 cycles of triplet therapy, we offer patients with standard-risk MM **lenalidomide-based maintenance until progression**.
- ▶ **Frail patients** – Following 9 cycles of treatment with lenalidomide plus dexamethasone, we offer frail patients with standard-risk MM maintenance with **single-agent lenalidomide until progression** unless there is significant toxicity.

NCCN Guidelines Version 5.2022

Multiple Myeloma

PRIMARY THERAPY FOR NON-TRANSPLANT CANDIDATES ^{a-d}	
Preferred Regimens	<ul style="list-style-type: none"> • Bortezomib/lenalidomide/dexamethasone (category 1) • Daratumumab/lenalidomide/dexamethasone (category 1)
Other Recommended Regimens	<ul style="list-style-type: none"> • Daratumumab/bortezomib/melphalan/prednisone (category 1) • Daratumumab/cyclophosphamide/bortezomib/dexamethasone
Useful In Certain Circumstances	<ul style="list-style-type: none"> • Bortezomib/dexamethasone • Bortezomib/cyclophosphamide/dexamethasone^e • Cyclophosphamide/lenalidomide/dexamethasone • Carfilzomib/cyclophosphamide/dexamethasone^f • Lenalidomide/low-dose dexamethasone (category 1)^k • Bortezomib/lenalidomide/dexamethasone (VRD-lite) for frail patients

MAINTENANCE THERAPY	
Preferred Regimens	<ul style="list-style-type: none"> • Lenalidomide (category 1)
Other Recommended Regimens	<ul style="list-style-type: none"> • Ixazomib (category 2B)^j • Bortezomib
Useful In Certain Circumstances	<ul style="list-style-type: none"> • Bortezomib/lenalidomide^l



Thank you