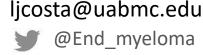


Knowledge that will change your world

Can We Give our Patients a Treatment-Free Interval? YES

Luciano J. Costa, MD, PhD
Professor of Medicine
University of Alabama at Birmingham



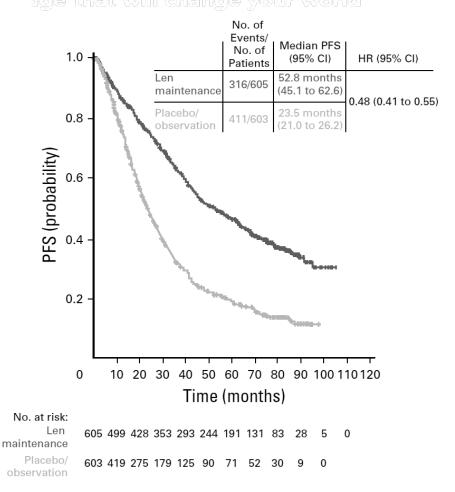


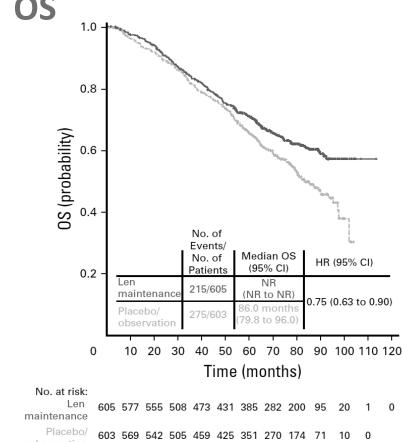
Disclosures

- Research support: Amgen, Janssen, BMS, AbbVie, Ionis, Genentech
- Honorarium: Amgen, Janssen, Sanofi, Karyopharm, BMS, Astra Zeneca

Current Paradigm = Continuous Therapy







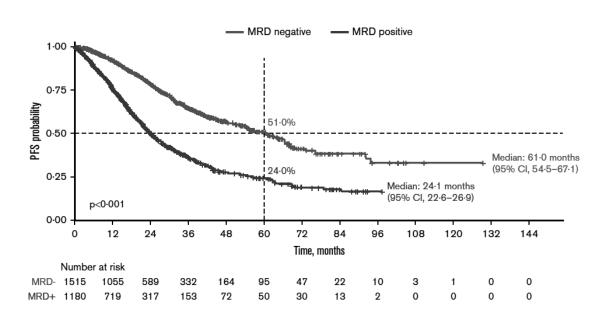


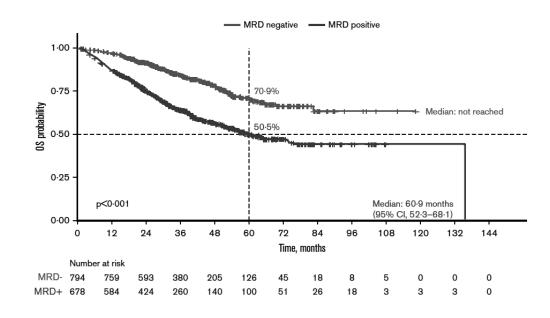
Caveats of continuous therapy

- Intent vs. Reality
 - -RWD, median duration of lenalidomide maintenance as little as **21 months**
- Cost
 - €277,456/QALY to €1,502,780/QALY
- One size does not fit all.
- Evidence for continuous therapy defined in setting of less active therapy



MRD Strongly Predicts outcomes

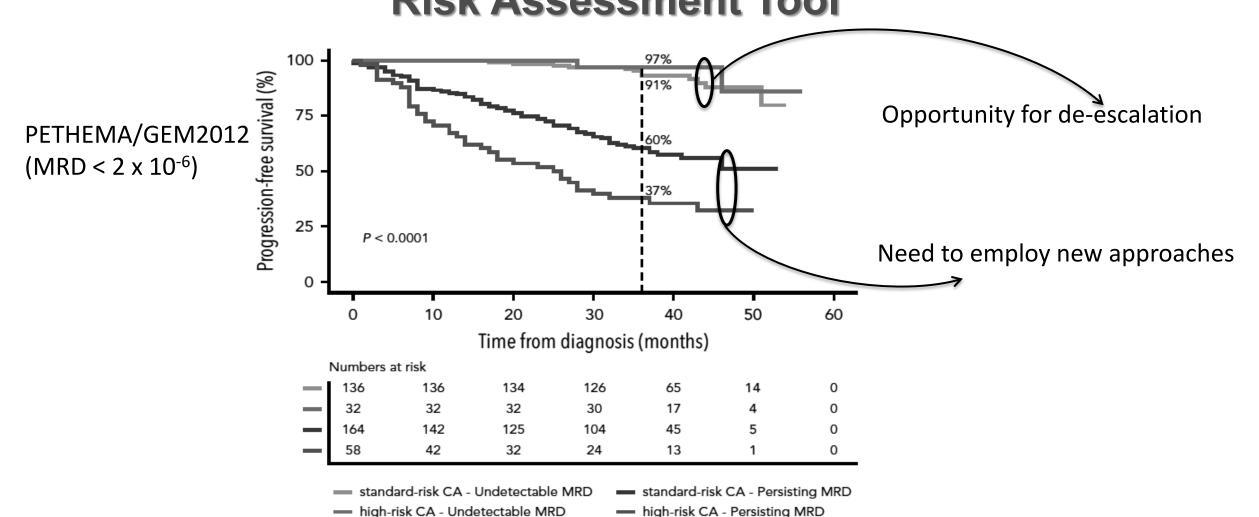




	No. of patients	PFS hazard i	ratio (95% CI)	p value ^a
ر ۱	0 ⁻⁴ 2127		0-38 (0-32–0-45)	<0.001
MRD sensitivity threshold ^b	0 ⁻⁵ 5361	-	0-31 (0-27–0-36)	<0.001
L 10	0 ⁻⁶ 1469		0.22 (0.16-0.29)	<0.001
Cytogenetic risk { High-risk ^c Standard-risk ^d	sk ^c 495		0.45 (0.36–0.58)	<0.001
	sk ^d 583	-	0-40 (0-26–0-60)	0.001



MRD May Abrogate Other Risk Factors = Optimal Dynamic Risk Assessment Tool



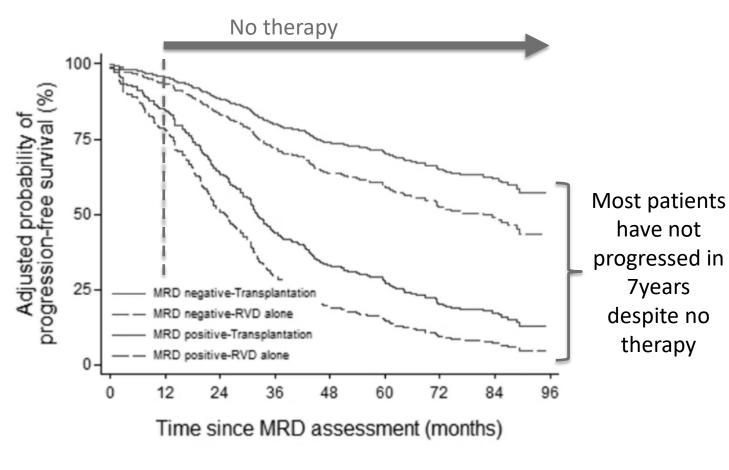


Downsides of Maintenance Therapy

7years

therapy

IFM 2009



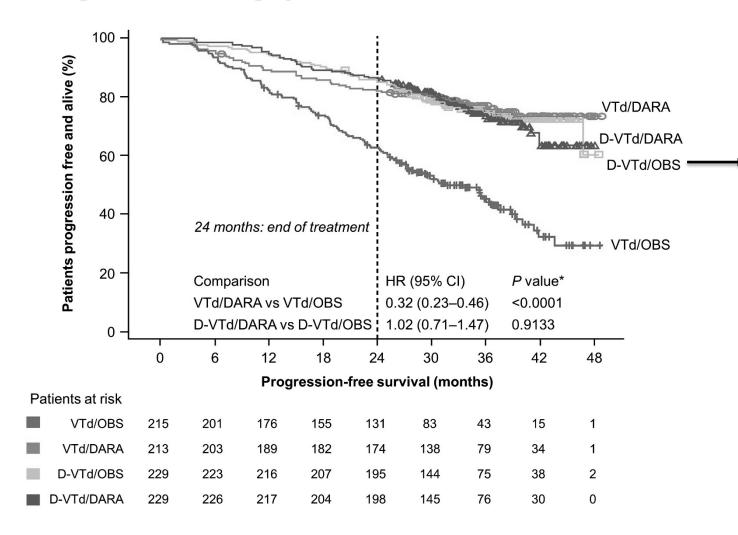
Deferring Lenalidomide for 7 years:

- -"Saving" of US\$ 1.5 million!
- -Avoid ~3.5% absolute increase in risk of SPM
- -Avoid dozens of extra lab checks/MD visits
- -Avoid diarrhea, fatigue, rash
- -Avoid "daily reminder I have cancer"



La Para Allesson from Cassiopeia Part 2

Knowledge that will change your world

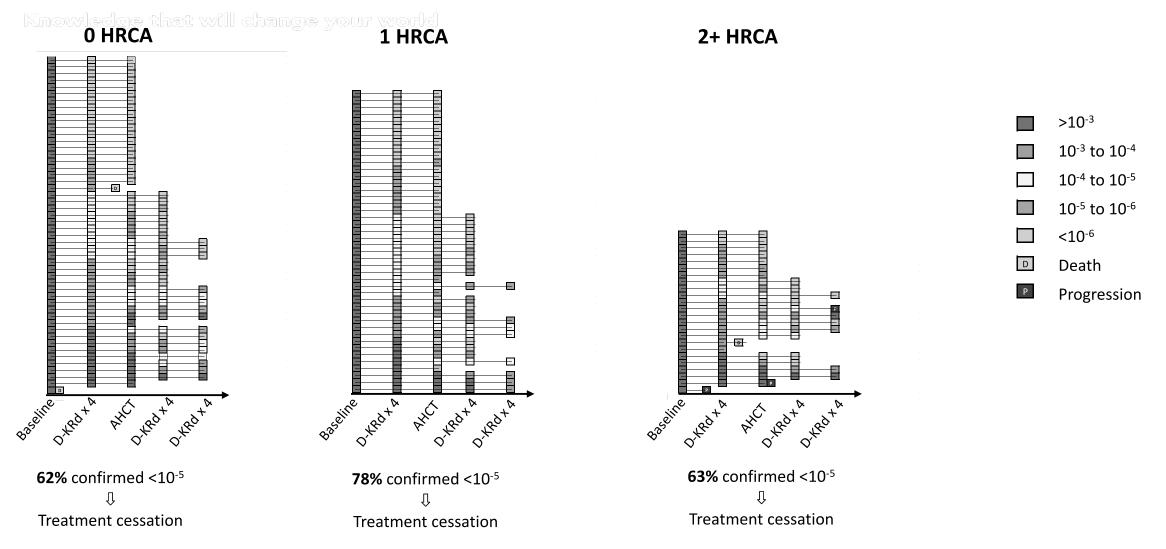


D-VTD/OBS arm -

~3/4 of patients without progression 3.5 years after end of therapy



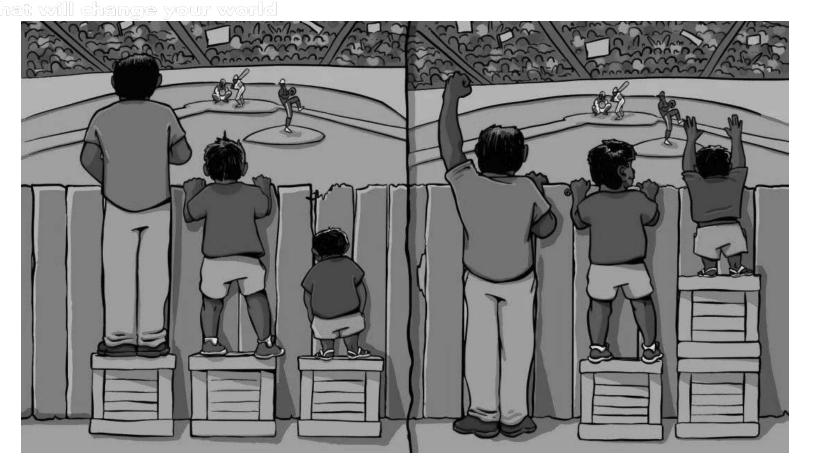
Confirmed MRD(-) is Achievable in ~80% with Response-Adapted therapy



HRCA = gain/amp 1q, t(4;14), t(14;16), t(14;20) or del(17p)

MASTER trial

Same treatment for all vs. Individualized



Lenalidomide maintenance until progression

Risk and response-adapted therapy



Treatment-Free Observation and MRD surveillance

- Alternative to continuous therapy
- Should be pursued in confirmed MRD(-) patients
- MRD surveillance to mitigate risk from omitting maintenance
- Risk of omitting maintenance balanced against
 - -QOL
 - -Cost
 - Toxicity from continuous therapy (including SPM)
- Golden opportunity to study undisturbed interplay of immune reconstitution and MRD.



Acknowledgements

Academic Consortium to Overcome Multiple Myeloma through Innovative Trials (COMMIT)

MASTER protocol team

Patient advocates

Patients and family



We can't call it cure until we can stop therapy