## My Older MCL Patient is in Remission: Now What?

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### **Disclosures**

- Consulting
  - Abbvie, Acerta, Astra Zeneca, ADCT, BeiGene, BMS, Genentech, Genmab, Gilead, Incyte, Janssen, MEI, Morphosys, Pharmacyclics
- Research Funding
  - Genentech, ADCT, Acerta, Celgene, BeiGene

### A Case

- 72 yo man presents with left axillary adenopathy
- Bx shows MCL, typical morphology. cyclin D1+. t(11;14). Ki-67 25%. No p53.
- PET shows widespread disease with largest node of 7 cm in mesentery.
- Marrow shows 30% involvement by MCL.
- Blood counts normal. LDH normal. No B symptoms, but fatigue and lack of stamina for several months.
- PMHx includes HTN, elevated cholesterol, CAD s/p stenting, moderate obesity.
- You decide to treat. What is your preferred induction?

# Some induction options for an older MCL patient:

- 1. BR (probably most widely used in US)
- 2. R-CHOP
- 3. VR-CAP
- 4. R-BAC
- 5. R<sup>2</sup> (lenalidomide-rituximab) (not FDA approved)
- 6. BR plus Ibrutinib (ala SHINE)

### MCL older: Induction strategies

• BR (without maintenance) generates remissions lasting 3-4 years on average

- Became US standard with remarkably little data
  - StiL trial N = 47

- Subsequent data supports BR in older MCL
  - BRIGHT trial, Rummel data, BCCA data, E1411, Shine

### Summary of non intensive induction regimens\*

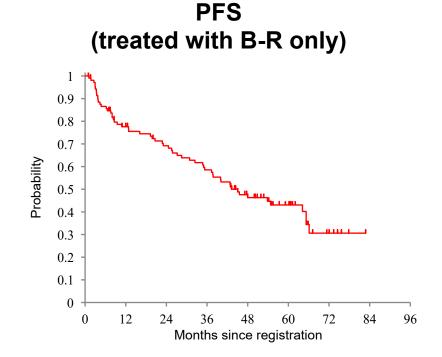
	N	Age	ORR	CR	mPFS
R-CHOP	244	66	89%	42% (CT)	14.4 mo
VR-CAP	243	65	92%	53% (CT)	24.7 mo
BR**	188	70	~90%	~45% (CT)	35-42 mo
RBAC500	57	71	91%	91% (PET)	> 7 yrs

<sup>\*</sup>no maintenance therapy

<sup>\*\*</sup>pooled data from 3 trials

### BR induction in older MCL patients

- N = 106
- Median age 70
- Median PFS
  - 43.2 months



Rummel et al, ASCO 2016

### What if?

- Your older patient has highly proliferative disease shown by Ki-67 staining?
  - BR performs consistently less well in these cases
  - Consider R-BAC regimen
  - Consider VR-CAP
- Your older patient is p53 mutated (or even 17p deleted)?
  - No data to guide us here
  - Consider BTKi (if available)
  - Consider BR expect short remission
    - Be ready with 2<sup>nd</sup> line BTK or CART

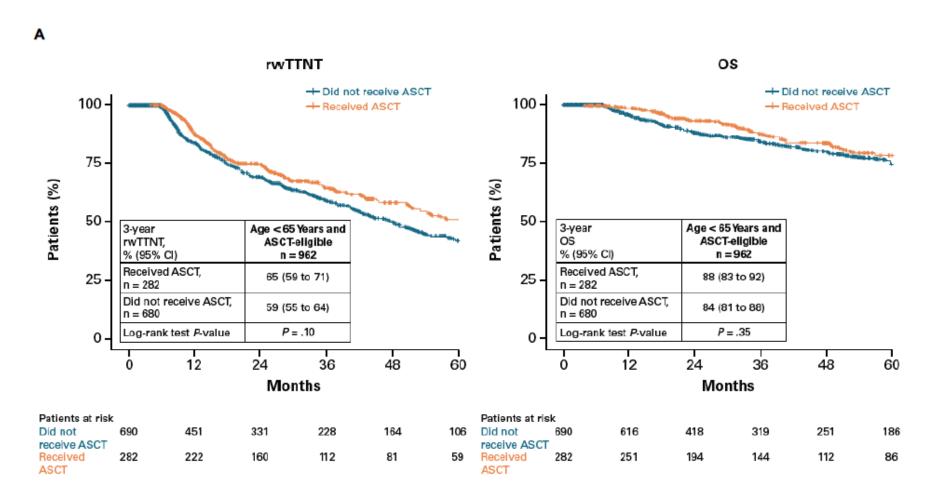
### My patient is in CR after BR x 6. Now what?

- 1. Observe
- 2. Maintenance Rituximab
- 3. ASCT
- 4. ASCT plus MR
- 5. BTKi
- 6. MR plus ibrutinib (Shine)
- 7. Lenalidomide plus Rituximab

### Intensive strategies for older MCL patients

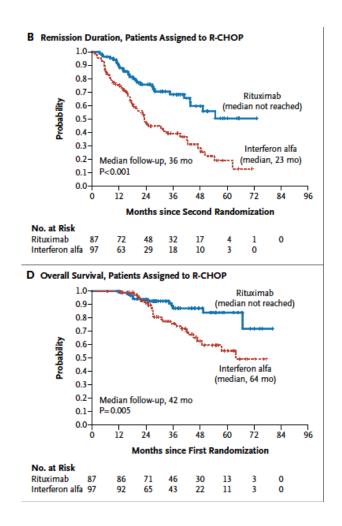
- MD Anderson experience (Fayad et al, Clin Lymph 2007)
  - Conventional R-hyperCVAD
    - $\leq$  65 mPFS 5.5 years (N = 65)
    - > 65 mPFS 3.0 years (N = 32)
- U Penn experience (Frosch et al, Clin Lymph 2015)
  - Median age 65 (60-75)
  - R-CHOP plus ASCT or R-hyperCVAD
    - Median PFS 3.2 years
- Not my favorite strategy for older patients

### Flatiron Database

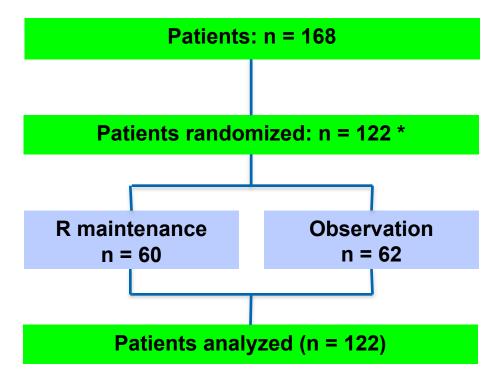


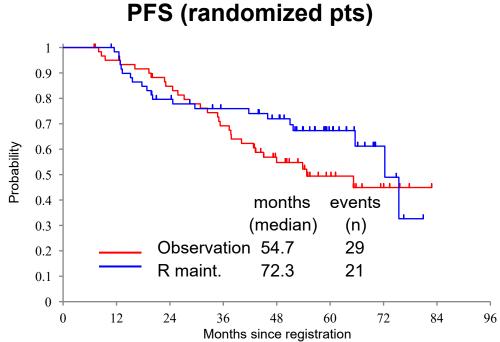
### Maintenance Rituximab

- European MCL Network Study
- N = 532. Median age 70.
- R-CHOP > FCR as induction strategy
- Responding patients randomized to interferon alfa vs. MR given indefinitely
- MR not beneficial after FCR
- What about after BR???



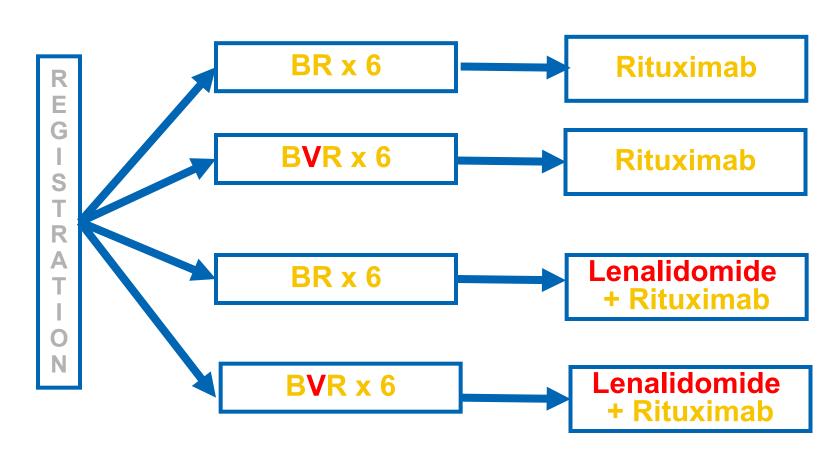
#### How about MR after bendamustine-rituximab?





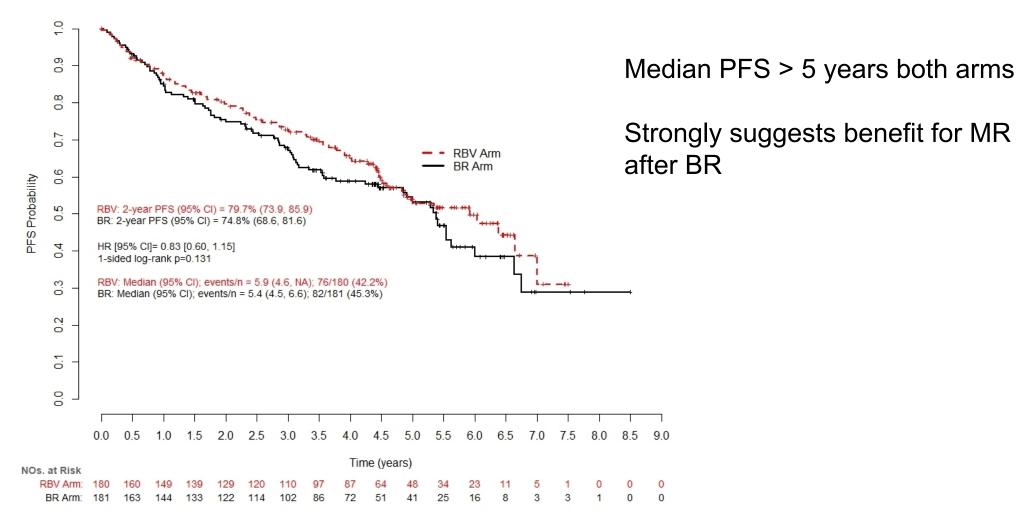
Rummel et al, ASCO 2016

## E1411: Randomized Phase 2 Intergroup Trial: Initial Therapy of Mantle Cell Lymphoma



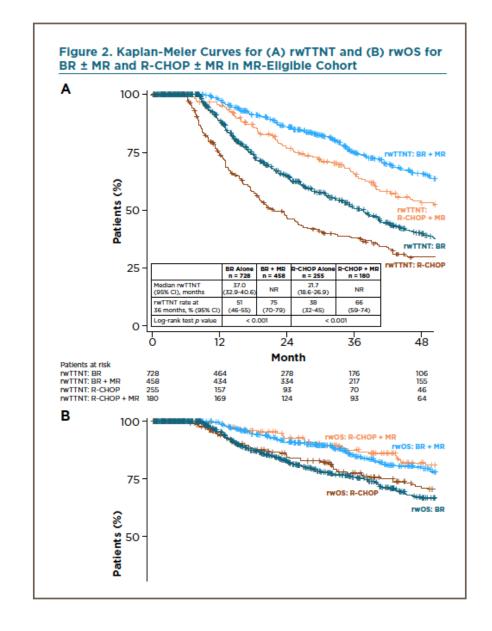
$$N = 372$$

### PFS: BR vs BVR



### **Flatiron Database**

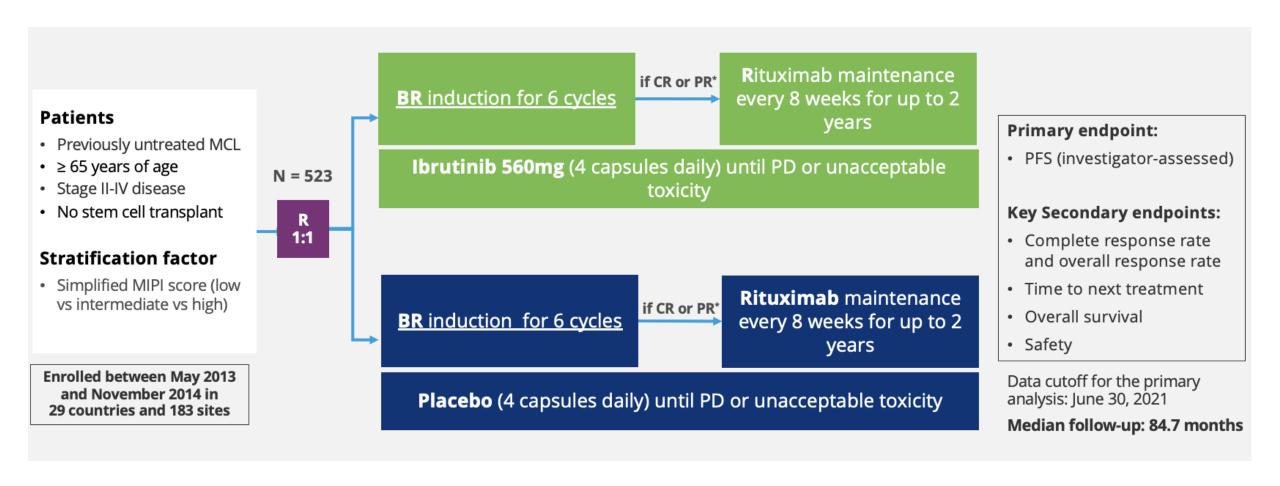
- "Real world" analysis of 1621 patients
- Show large benefit for MR
  - TTNT
  - OS
  - After both R-CHOP and BR
- Presented ICML 2021 (Salles et al)
- Martin et al, JCO 2022



### Thoughts on Maintenance Rituximab

- Preponderance of data suggests major benefit in MCL
- Actually impacts OS, not just PFS (as in follicular lymphoma)
- Still unclear regarding "optimal duration"
  - 2 yrs vs. 3 yrs vs. 5 yrs vs. indefinite?
- COVID 19 Pandemic has created new challenges
  - Prolonged B cell depletion leads to worse infections and inability to vaccinate
  - Anecdotally, convalescent serum, MoAb rx has been helpful in management
  - Evusheld getting heavy use in our clinics

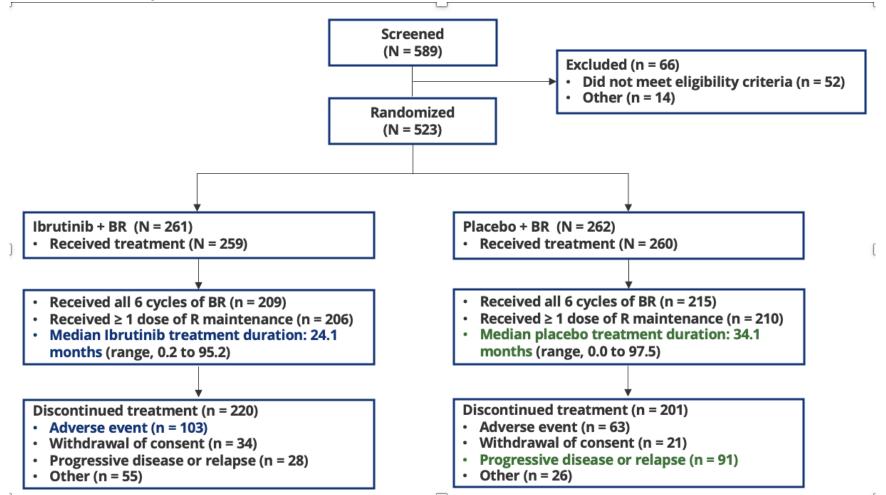
Primary Results From the Double-Blind, Placebo-Controlled, Phase III SHINE Study of Ibrutinib in Combination With Bendamustine-Rituximab and Rituximab Maintenance as a First-Line Treatment for Older Patients With Mantle Cell Lymphoma



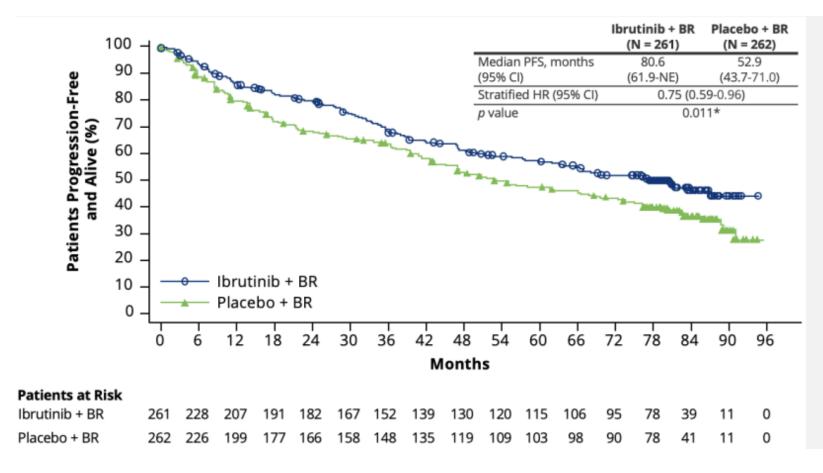
### Patient disposition

		Ibrutinib + BR (N = 261)	Placebo + BR (N = 262)
Median age (range) — years		71 (65–86)	71 (65–87)
Age, ≥ 75 years — no. (%)		74 (28.4)	82 (31.3)
Sex, male — no. (%)		178 (68.2)	186 (71.0)
ECOG PS 1 or 2 — no. (%)		127 (48.7)	121 (46.2)
Simplified MIPI score — no. (%)	Low risk	44 (16.9)	46 (17.6)
	Intermediate risk	124 (47.5)	129 (49.2)
	High risk	93 (35.6)	87 (33.2)
Bone marrow involvement at study entry — no. (%)		198 (75.9)	200 (76.3)
Blastoid/pleomorphic histology — no. (%)		19 (7.3)	26 (9.9)
Extranodal disease — no. (%)		234 (89.7)	226 (86.3)
Bulky disease (≥ 5 cm) — no. (%)		95 (36.4)	98 (37.4)
TP53 mutated — no. (%)		26 (10.0)	24 (9.2)
TP53 mutation status unknown — no. (%)		121 (46.4)	133 (50.8)

### Patient disposition

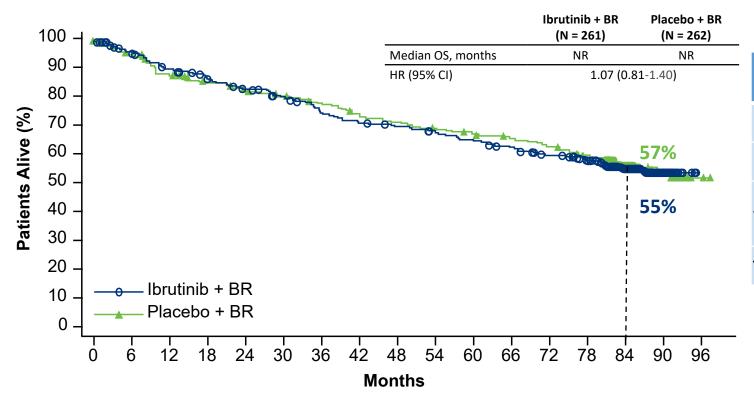


### PFS



- Ibrutinib combined with BR and R maintenance demonstrated a 25% reduction in the relative risk of disease progression or death versus BR and R maintenance
- Significant improvement in median PFS: 80.6 month (6.7 years) versus 52.9 months (4.4 years) (Δ=2.3 years)

### Overall Survival Similar in Both Arms



Cause of death	Ibrutinib+BR (N=261)	Placebo+BR (N=262)
Death due to PD	30 (11.5%)	54 (20.6%)
Death due to TEAEs*	28 (10.7%)	16 (6.1%)
Death during post- treatment follow-up period excluding PD	46 (17.6%)	37 (14.1%)
Total deaths	104 (39.8%)	107 (40.8%)

<sup>\*</sup>The most common Grade 5 TEAE was infections in the ibrutinib and placebo arms: 9 vs 5 patients. Grade 5 TEAE of cardiac disorders in 3 vs 5 patients, respectively.

#### **Patients at Risk**

Ibrutinib + BR 261 239 221 208 197 187 171 163 158 152 145 138 128 118 70 25 0
Placebo + BR 262 244 223 212 203 197 188 177 171 165 159 154 147 137 90 31 2

NR, not reached.

### SHINE: Kahl Conclusions

- Not a black and white outcome (very gray to me)
- Pro's for adding ibrutinib
  - No question adding ibrutininb improves PFS
  - Significant improvement in median PFS
  - Patients less likely to die from MCL
- Con's for adding ibrutinib
  - 5 yr PFS improves from 50 to 60% (modest)
  - Cost about \$150k/year for this benefit
  - Patients more likely to die of toxicity so no OS benefit
  - Patient will not have BTKi available for 2<sup>nd</sup> line therapy
- I will discuss with patients but do not see myself recommending it

### MCL Treatment: The Horizon for Older MCL

- 1. SHINE trial: BR + ibrutinib until PD
- 2. ECHO: BR + acalabrutinib until PD
- 3. E1411: BR + bortezomib. R maintenance + lenalidomide
- 4. MANGROVE: Zanubrutinib-R vs. BR (phase 3)











