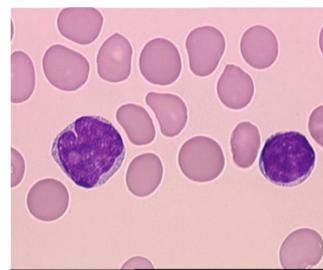




DIREKTOR: PROF. DR. M. VON BERGWELT



MANTLE CELL LYMPHOMA: *CLINICAL CASE NO 1*



Case report

Initial presentation - 2002

- **59 years, female**
- Stage IVa MCL
(nasopharynx, GI (gastric and colon),
bone marrow)

MC: First line – 2002

Optimal treatment



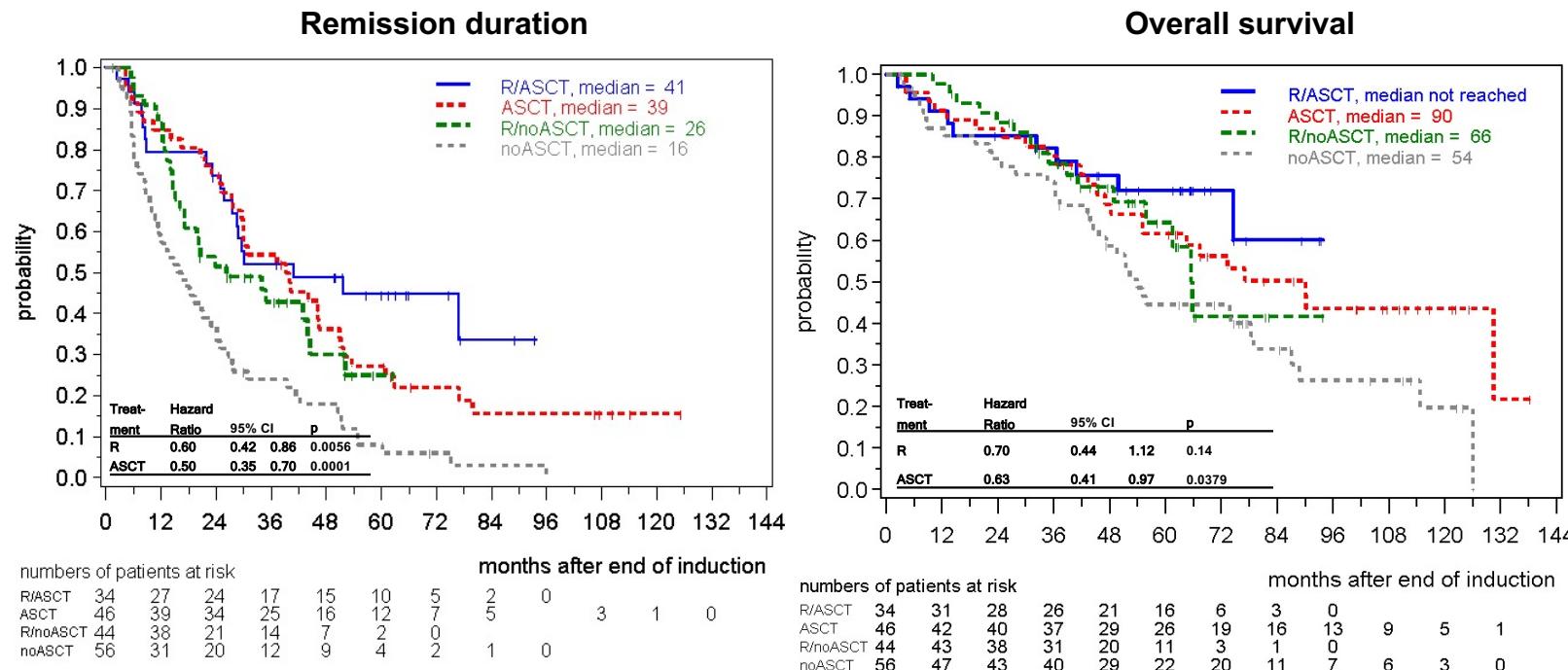
1. Bendamustine-Rituximab (BR)
2. R-CHOP
3. R-CHOP – autologous SCT
4. BR – autologous SCT
5. R-BAC

Case report

Initial presentation - 2002

- **59 years, female**
- Stage IVa MCL
(nasopharynx, GI (gastric and colon),
bone marrow)
- ➔ 6x R-CHOP - autologous transplantation

Metaanalysis : Autologous SCT and IFN Survival rates



Hoster, ASH 2009

Case report

First relapse - 2008



- 65 year, male
- no B-symptoms
- leucocytes 11.000 /ml
- LDH elevated (255 U/l), Ki-67 20 - 30%
- stage IVa MCL
(nasopharynx, gastric and colon, abdominal bulk >5cm, bone marrow)

Risk profile ?

MC: First line – 2002

Risk profile (MIPI)



- 1.** low
- 2.** intermediate
- 3.** high
- 4.** n.a.

First relapse - 2008

- 65 year, male
- no B-symptoms
- leucocytes 11.000 /ml
- LDH elevated (255 U/l), Ki-67 20 - 30%

Table 7. Simplified prognostic index

Points	Age, y	ECOG	LDHULN	WBC, 10 ⁹ /L
0	<50	0-1	<0.67	< 6.700
1	50-59	—	0.67-0.99	6.700-9.999
2	60-69	2-4	1.000 -1.49	1.000-14.999
3	≥70	—	≥1.5000	≥15000

MC: First relapse – 2008

Optimal treatment



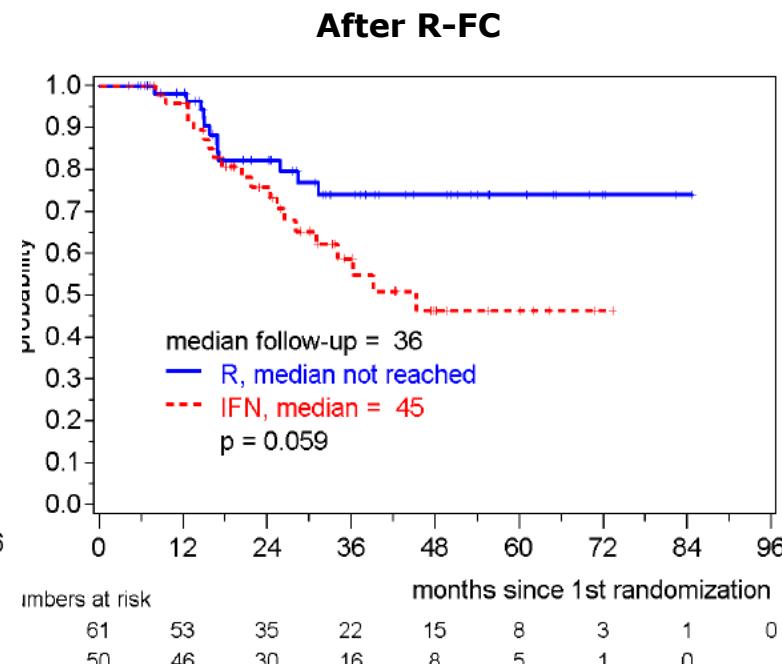
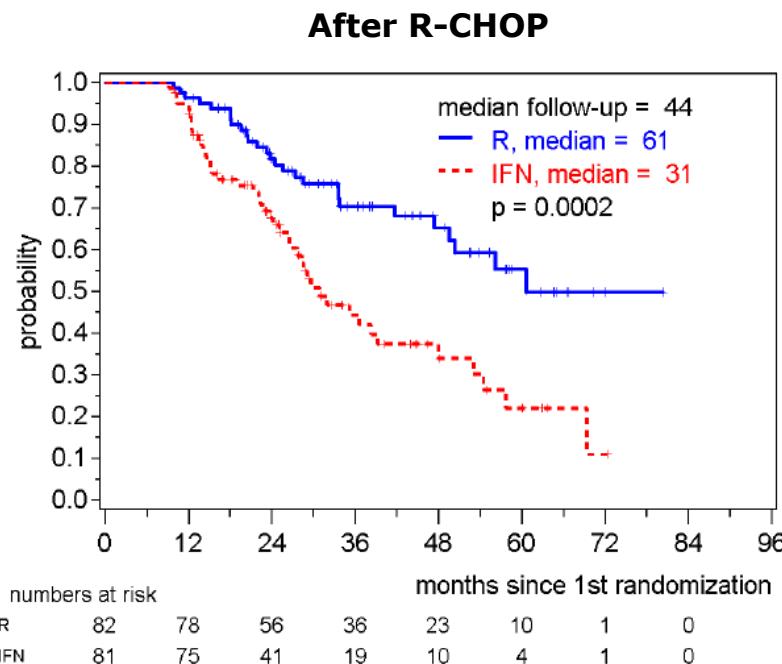
1. Cytarabine-Rituximab (R-HAD)
2. Bendamustine-Rituximab (BR)
3. Allogeneic transplantation
4. Bortezomib
5. Temsirolimus
6. other

young patient (≤ 65)	elderly patient (>65) First line treatment	compromised patient
<p>dose-intensified immuno-chemotherapy (e.g. R-CHOP, high dose Ara-C) \Rightarrow Autologous SCT \Rightarrow Rituximab maintenance</p>	<p>conventional immuno-chemotherapy (e.g. R-CHOP, VR-CAP, BR)</p> <p style="text-align: center;">↓</p> <p>Rituximab maintenance</p>	<p>Best supportive care? R-Chlorambucil BR (dose-reduced) R-CVP</p>
<p>immuno-chemotherapy (e.g. R-BAC, BR) or targeted approaches</p> <p style="text-align: center;">↓</p> <p>discuss: - allogeneic SCT</p>	<p>immuno-chemotherapy (e.g. BR, R-BAC) or targeted approaches</p> <p style="text-align: center;">↓</p> <p>discuss: - Rituximab maintenance - radioimmunotherapy</p>	<p>Immuno-chemotherapy (e.g. BR) or targeted approaches</p>
1. relapse		
higher relapse		
<p>Targeted approaches: Ibrutinib, Lenalidomide, Temirolimus, Bortezomib (preferable in combination) Alternatively: repeat previous therapy (long remissions)</p>		

MCL Elderly

Response duration

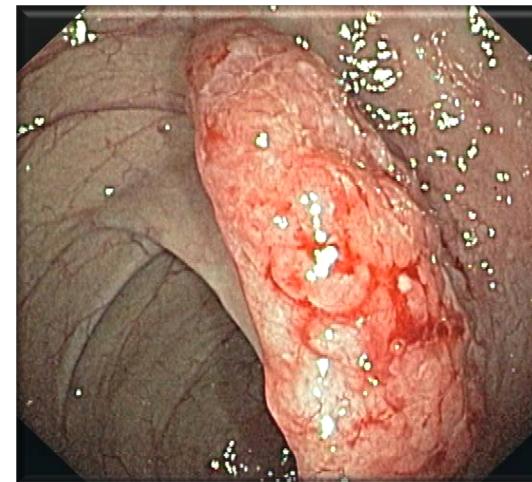
(death in remission censored)



Case report

after 3x R-FCM

- staging: partial remission
 - NMR head and neck
 - CT scan thorax/abdomen
 - gastroscopy
- but: progressive diarrhea!!!



coloscopy: MCL infiltration

Case report

Second relapse - 2009



- 67 years, female
- no B-symptoms
- leucocytes 4.800 /ml
- LDH slightly elevated (355 U/l), Ki-67 30-40 %
- stage IVa MCL
(colon, abdominal lymph nodes, bone marrow)

Second relapse - 2009

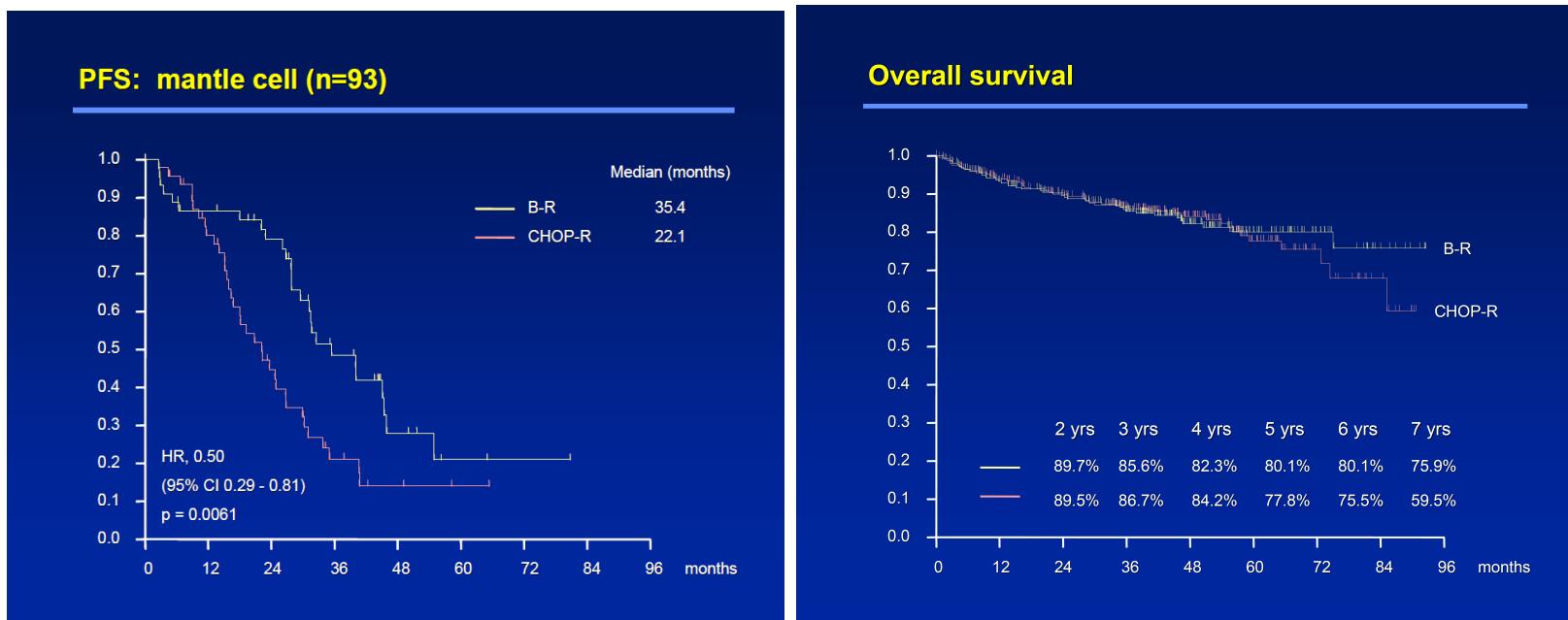
Optimal treatment



1. Gemcitabine-Oxaliplatin (GemOx)
2. Bendamustine-Rituximab (BR)
3. Bortezomib
4. Temsirolimus
5. Lenalidomide
6. Best supportive care

Immuno-chemotherapy in MCL

Progression-free survival

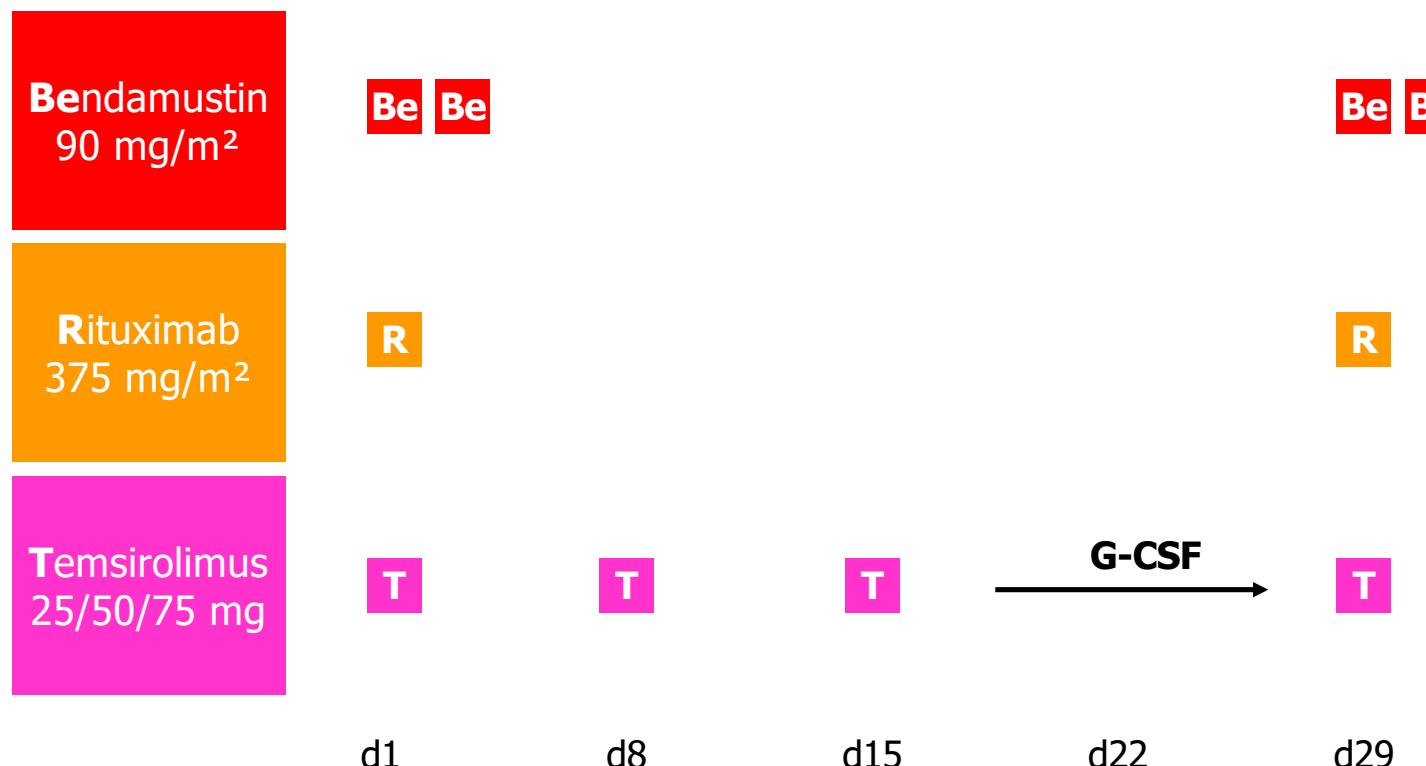


Rummel, Lancet 2013



BeRT: Benda/Rituximab/Temsirolimus

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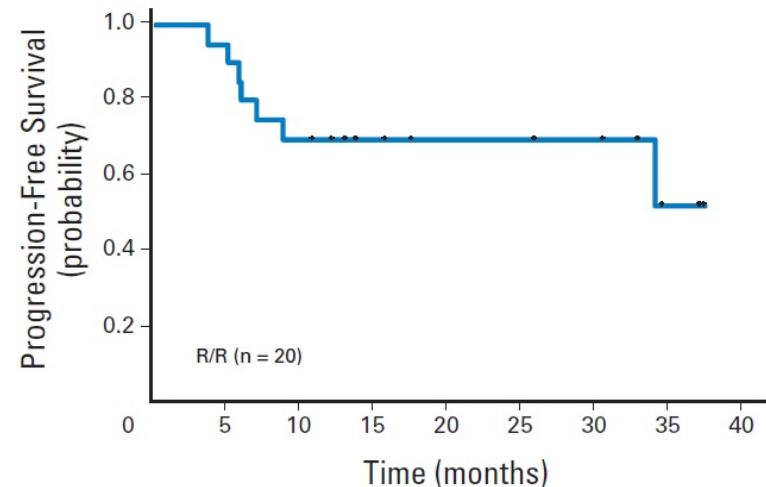
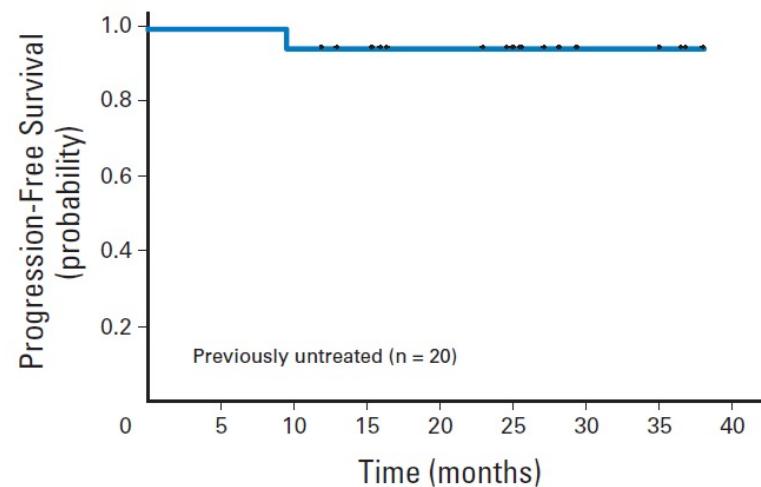


Hess, Leukemia 2015

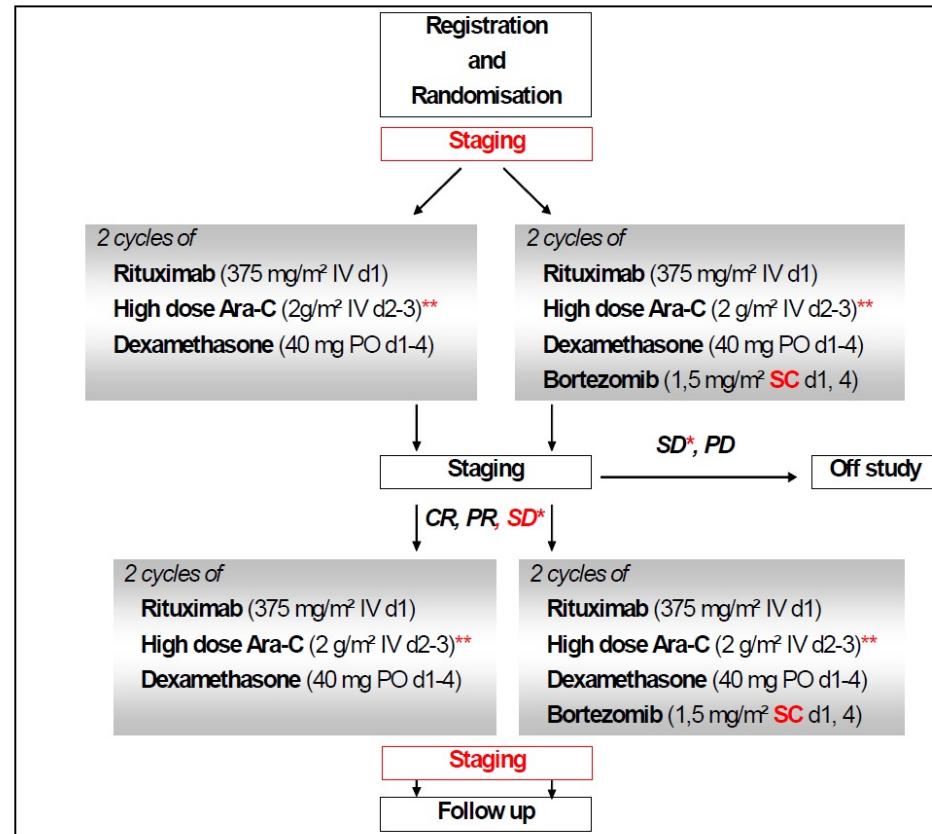
Mantle cell lymphoma

R-BAC

Characteristic	All Patients (N = 40)		Previously Untreated Patients (n = 20)		R/R Patients (n = 20)	
	No.	%	No.	%	No.	%
Response rates						
OR	36	90	20	100	16	80
CR	33	83	19	95	14	70
PR	3	7	1	5	2	10
NR	3	7	0	0	3	15
PD	1	3	0	0	1	5



R-HAD trial design



* In case of stable disease, patients may proceed with the treatment at the investigator's discretion.

** Patients >65 years or s/p myeloablative treatment: 1000 mg/m²

Third relapse - 2015

- 73 years, female
- no B-symptoms
- leucocytes 3.800 /ml
- LDH slightly elevated (275 U/l), Ki-67 20 %
- stage IVa MCL
(colon, mediastinal lymph nodes)

Third relapse - 2015

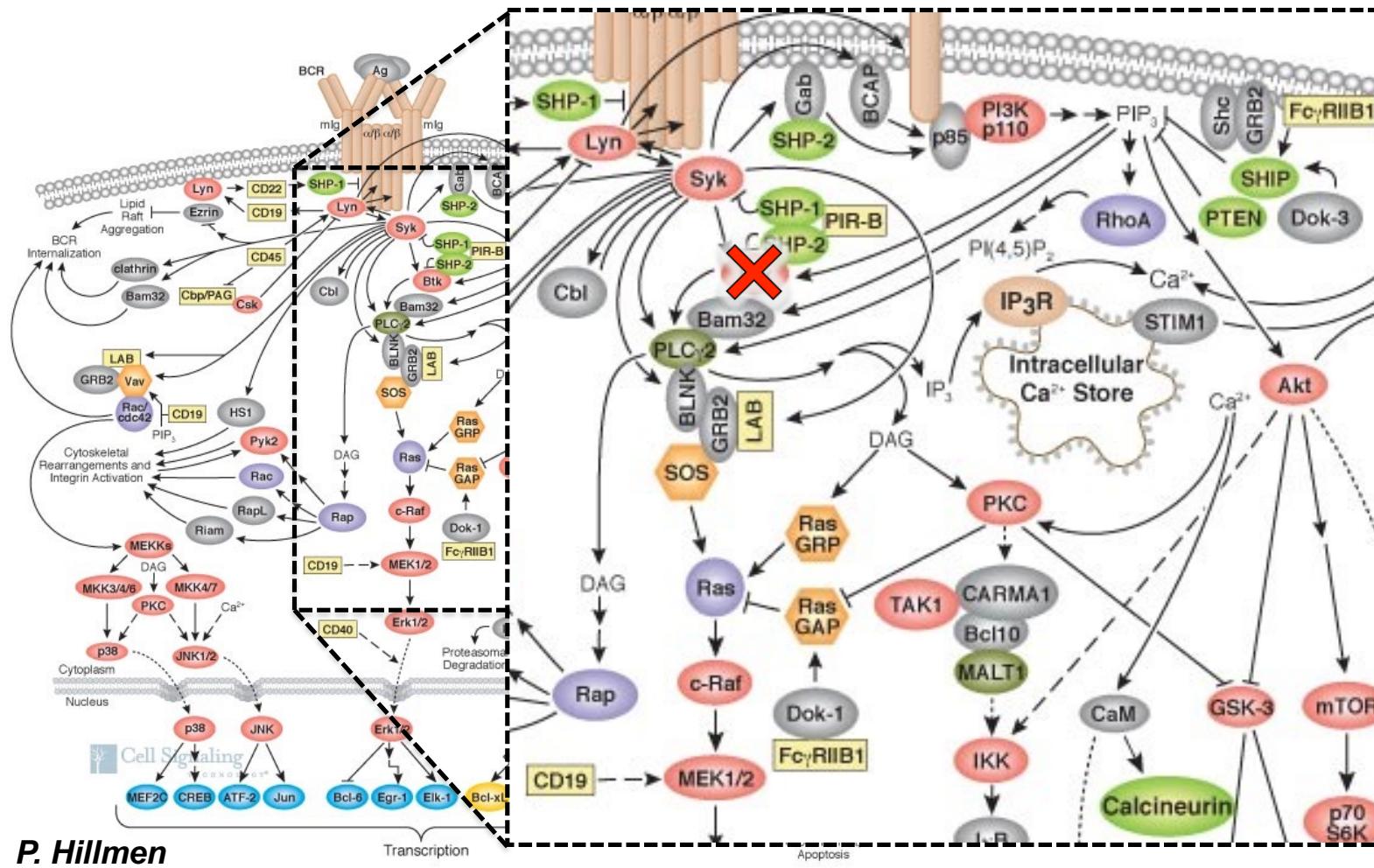
Optimal treatment



- 1.** Bendamustine-Rituximab (BR)
- 2.** Temsirolimus
- 3.** Lenalidomide
- 4.** Ibrutinib
- 5.** Best supportive care

B cell receptor

Targeting a critical pathway



P. Hillmen

Fourth relapse - 2020

- 78 years, female
- no B-symptoms
- leucocytes 3.800 /ml
- LDH slightly elevated (275 U/l), Ki-67 20 %
- stage IVa MCL
(colon, mediastinal lymph nodes)

Fourth relapse - 2020

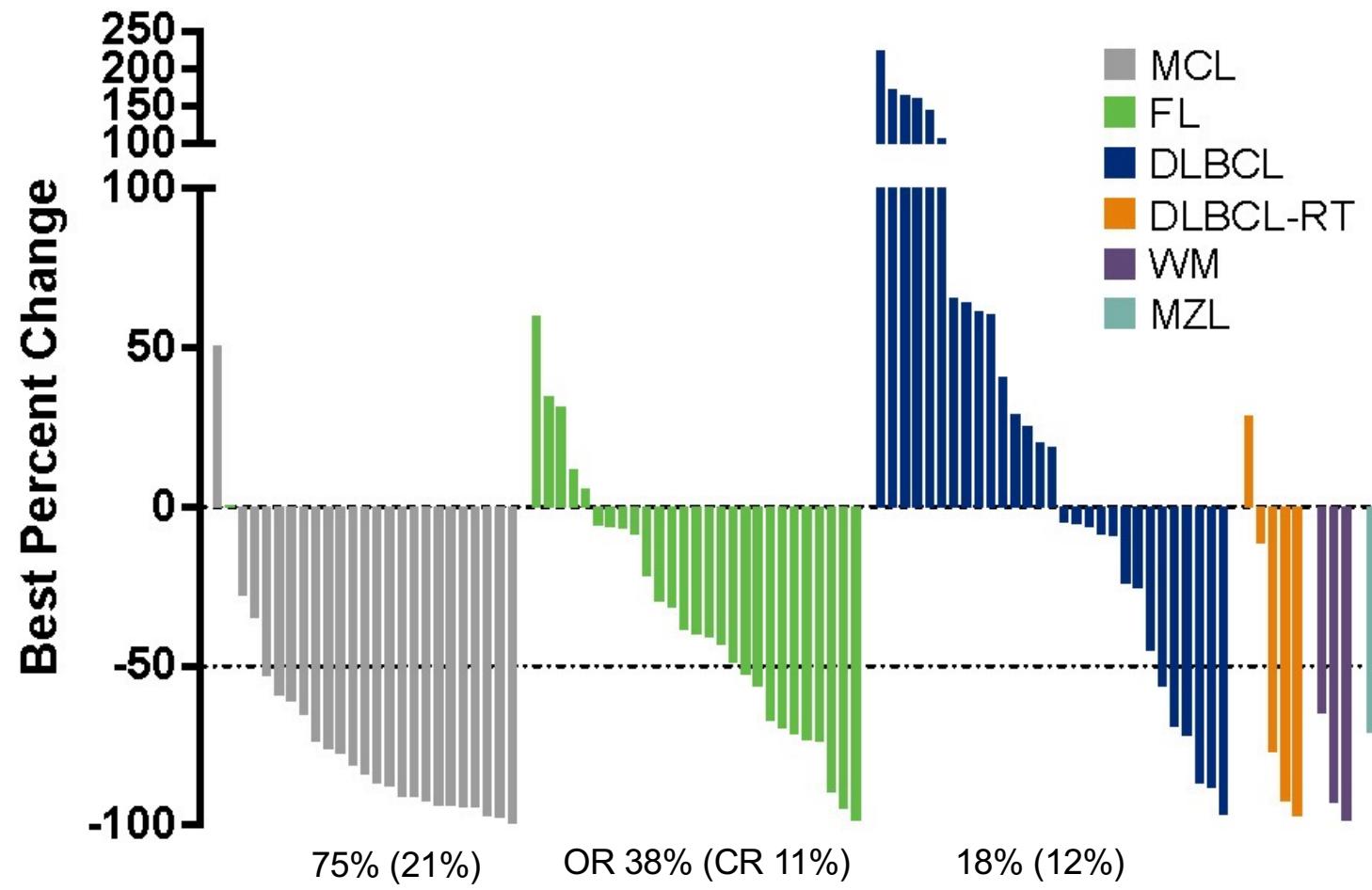
Optimal treatment



- 1.** Bendamustine-Rituximab (BR)
- 2.** Temsirolimus
- 3.** Lenalidomide
- 4.** Acalabrutinib
- 5.** Best supportive care

Objective responses
ABT-199 (Venetoclax)

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Davids, JCO 2017