

# 1266P: Update on the randomised Phase Ib/II study of the selective small molecule AXL inhibitor bemcentinib (BGB324) in combination with either dabrafenib/trametinib or pembrolizumab in patients with metastatic melanoma

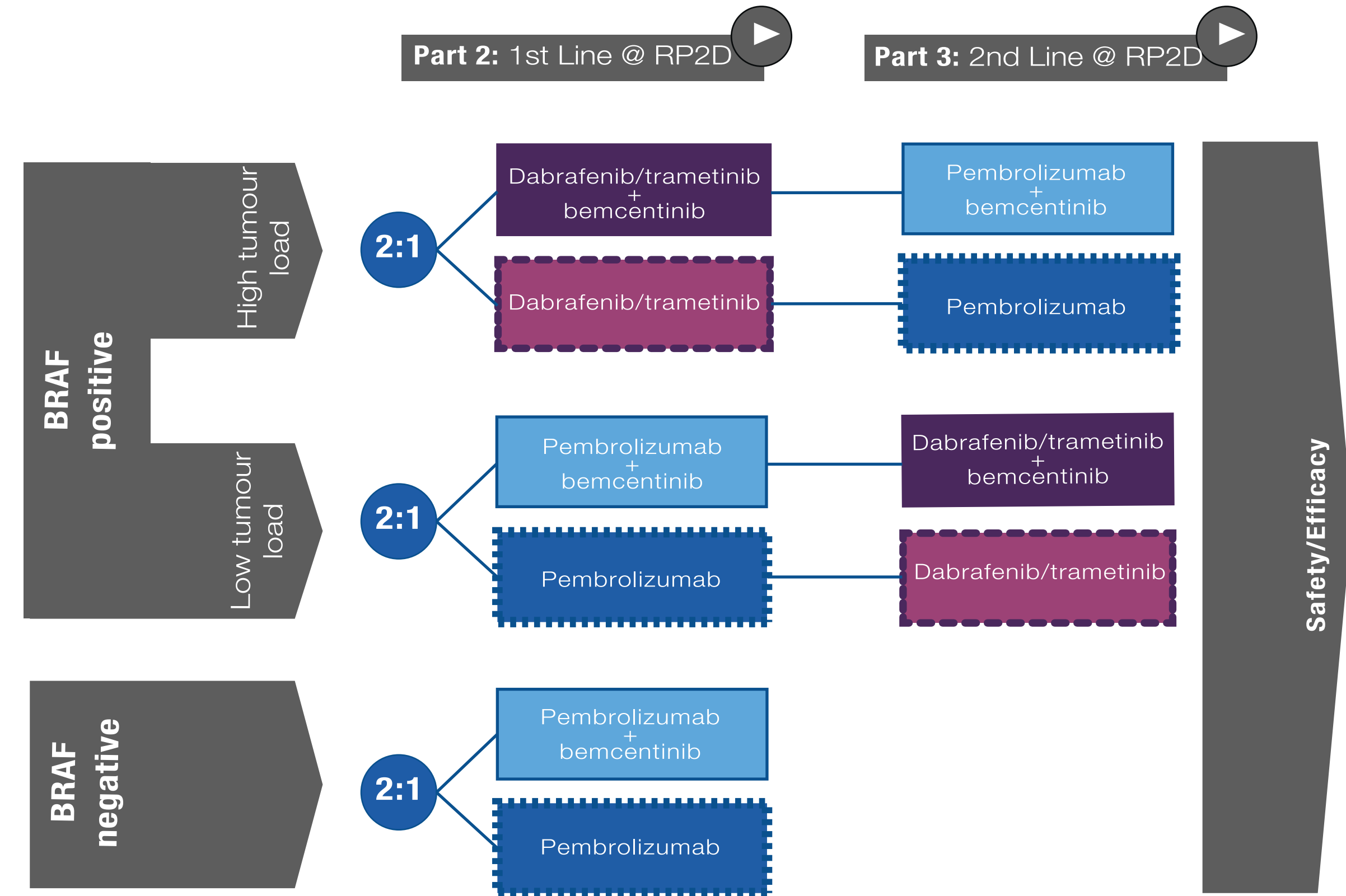
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## Background & objective

### NCT02872259: Ph I/II randomised trial of selective AXL inhibitor bemcentinib in metastitic melanoma patients

Three part randomised design enrolling up to 92 patients

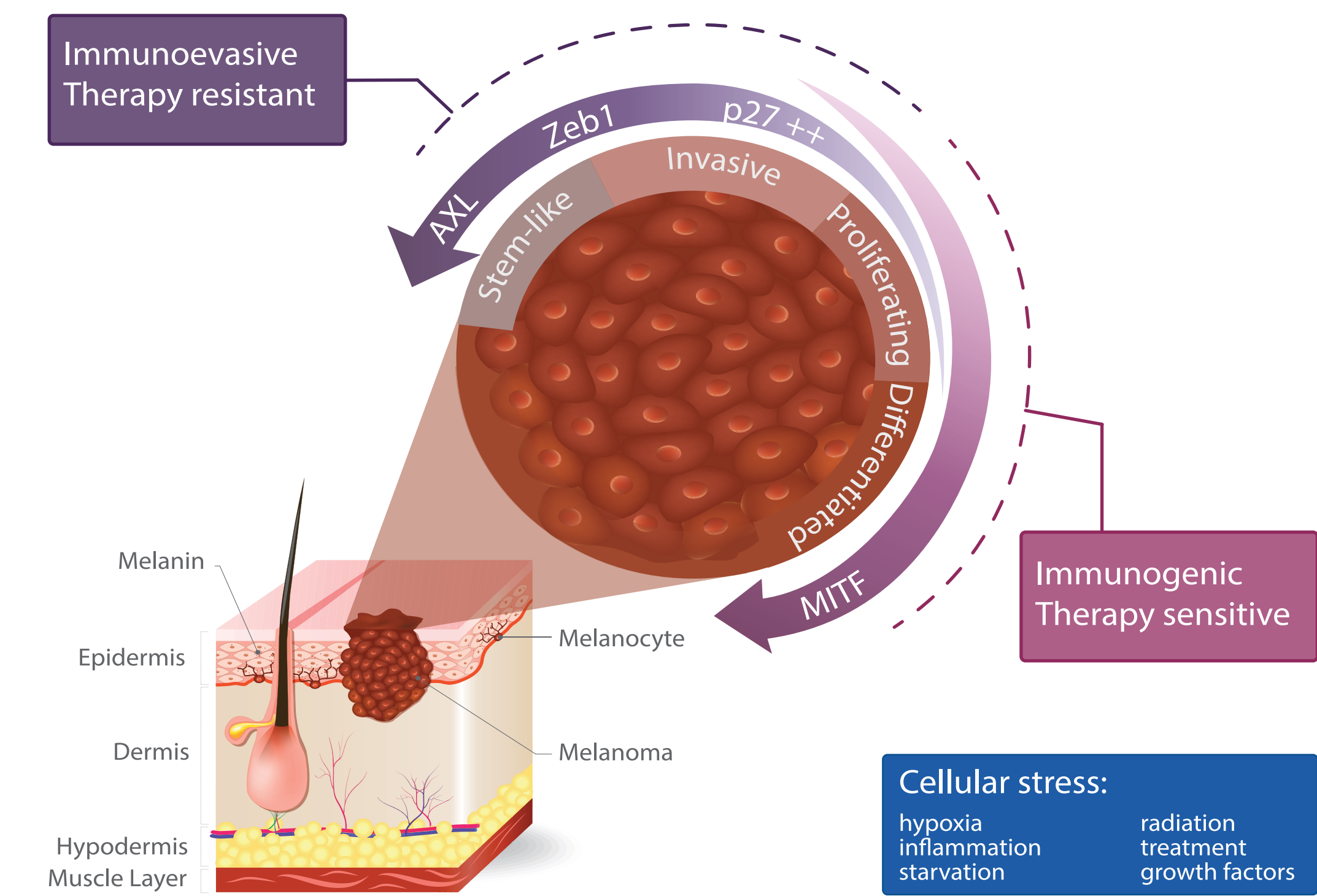


#### Key inclusion and exclusion criteria

- Histologically confirmed advanced cutaneous non-resectable (Stage IIc) or metastatic (Stage IV) melanoma
- Measurable disease as defined by RECIST 1.1 & documented progression of ≥1 measurable lesion
- Availability of fresh or archival tumour tissue sample suitable for evaluation of predictive biomarkers of response
- ECOG score 0 to 2 at screening
- No prior treatment for Stage IIb or Stage IIc melanoma
- No history of or current active autoimmune diseases
- No symptomatic central nervous system metastatic lesions
- No recent or ongoing systemic treatment with immunosuppressive or immunomodulating agents

#### Study rationale

The drug resistant low MITF/ high Axl melanoma phenotype is associated with an immune suppressive microenvironment.

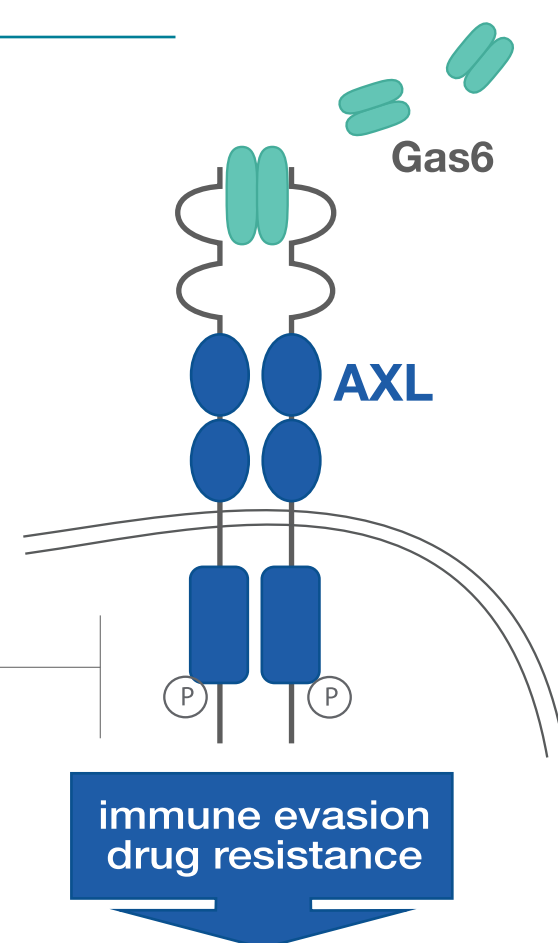
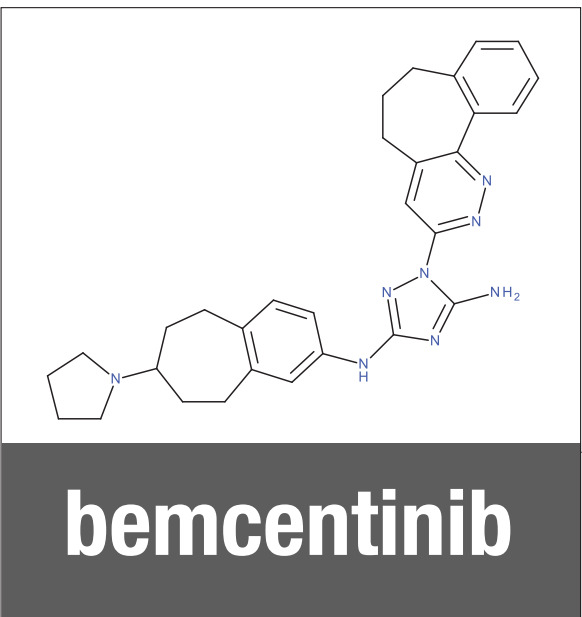


### Bemcentinib (BGB324): selective, oral small molecule inhibitor of AXL in phase II clinical testing

Bemcentinib is developed in combination with immune-, targeted and chemotherapy in NSCLC, AML/MDS and melanoma

	phase I	phase II	phase III
Bemcentinib – selective AXL kinase inhibitor			
adrenocarcinoma	Combination with pembrolizumab (NCT01546371)		
NSCLC	Combination with atezolizumab (NCT02404611)		
adrenocarcinoma	Combination with docetaxel (NCT02822777)		
Melanoma	Combination with SOC therapy, incl. CPs (NCT02872259)		
AML/MDS	Combination with low dose etoposide + Single agent (NCT02884842)		

Selectivity Profile		
Kinase	Kinome Scan (Kd)	
	nM	Fold
Axl	0.4	1
Mer	100	250
Tyro	>1000	>1000



## Dose escalation completed, preliminary results for patients receiving first line treatment

### Baseline demographics, n=27

Age, median (range)	66 (34 - 79)
LDH (U/L), median (range)	235 (67 - 3523)
≥ ULN	13 (48%)
< ULN	11 (41%)
Unknown	3 (11%)
Gender, n (%)	
female	12 (44%)
male	15 (56%)
Mutations, n (%)	
BRAF	16 (59%)

### Treatment related adverse events

Preferred term, n (%)	Grade 2	Grade 3	Grade 4
Pyrexia	2 (8)		
Fatigue	1 (4)		
Diarrhoea	3 (12)		
Rash	3 (12)	3 (12)	
Increased liver enzymes	1 (4)	3 (12)	
Increased creatinine	1 (4)		
Nausea	1 (4)		
Orchitis	1 (4)		
Necrotising myopathy			1 (4)

### Conclusions

- Part 1 of the study (dose escalation of bemcentinib + dabrafenib / trametinib) has been successfully completed.

- Significant positive response was observed in the majority of patients.

- Blood based biomarkers that predict response are under investigation.

- All treatment combinations were well tolerated.

- Safety, efficacy & biomarker performance will continue to be explored.

### Contact

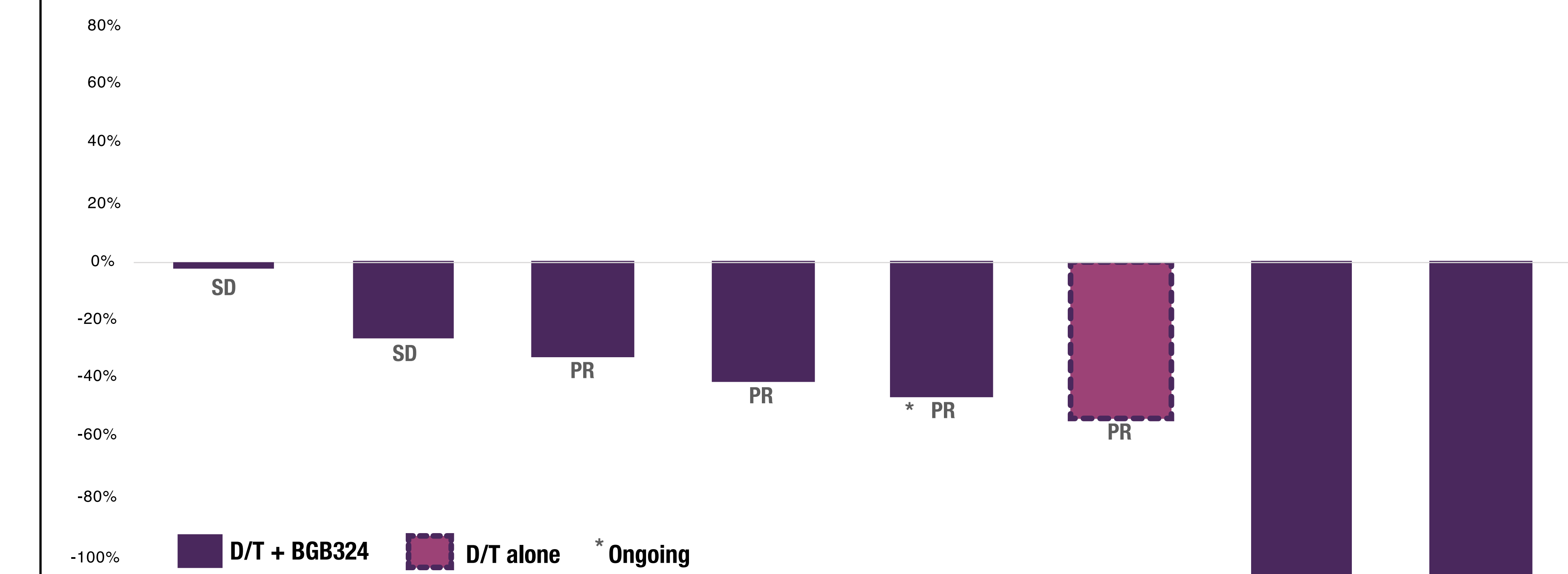
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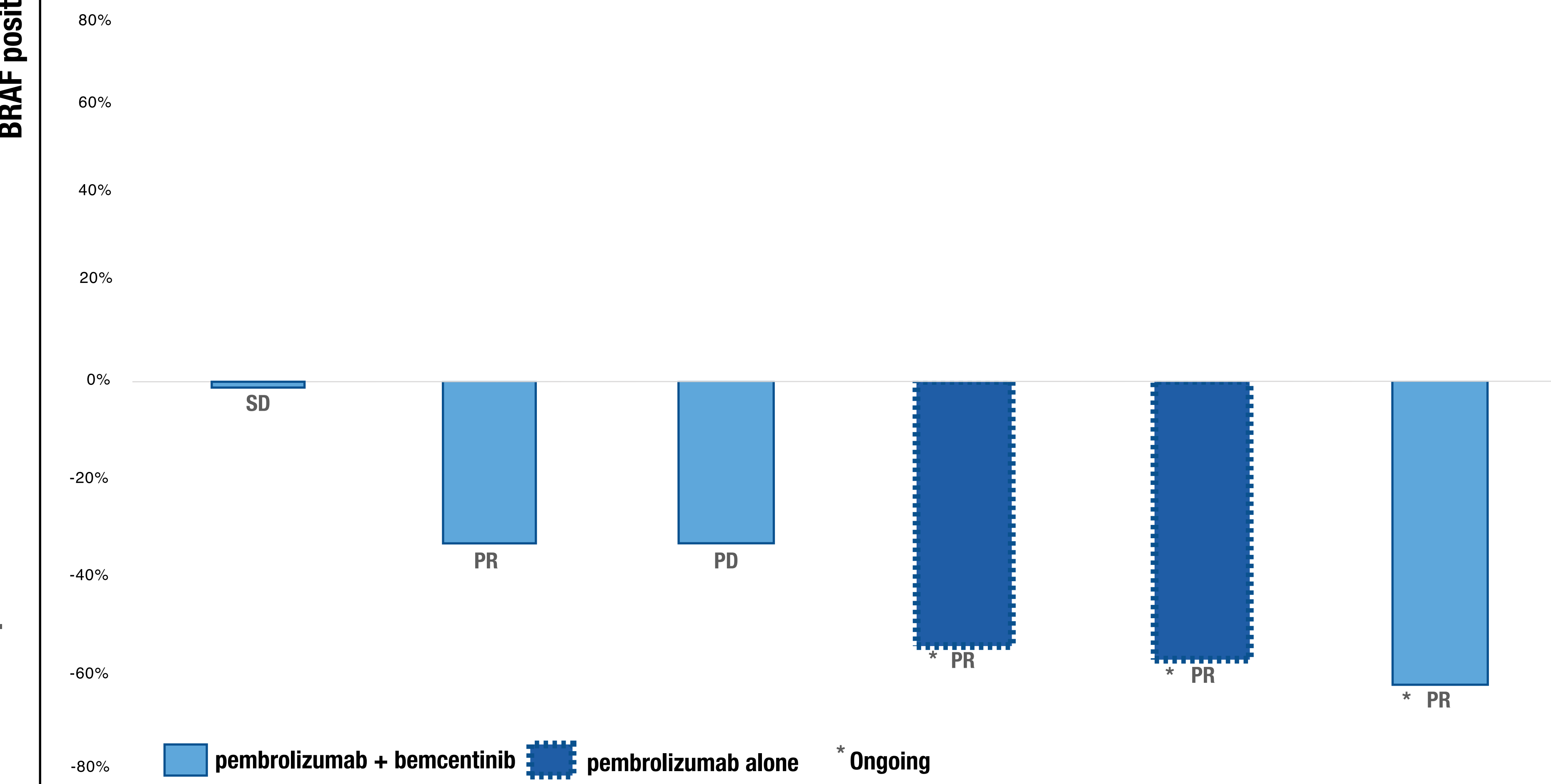
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### Preliminary efficacy assessment in RECIST evaluable patients to date - includes patients receiving first line treatment

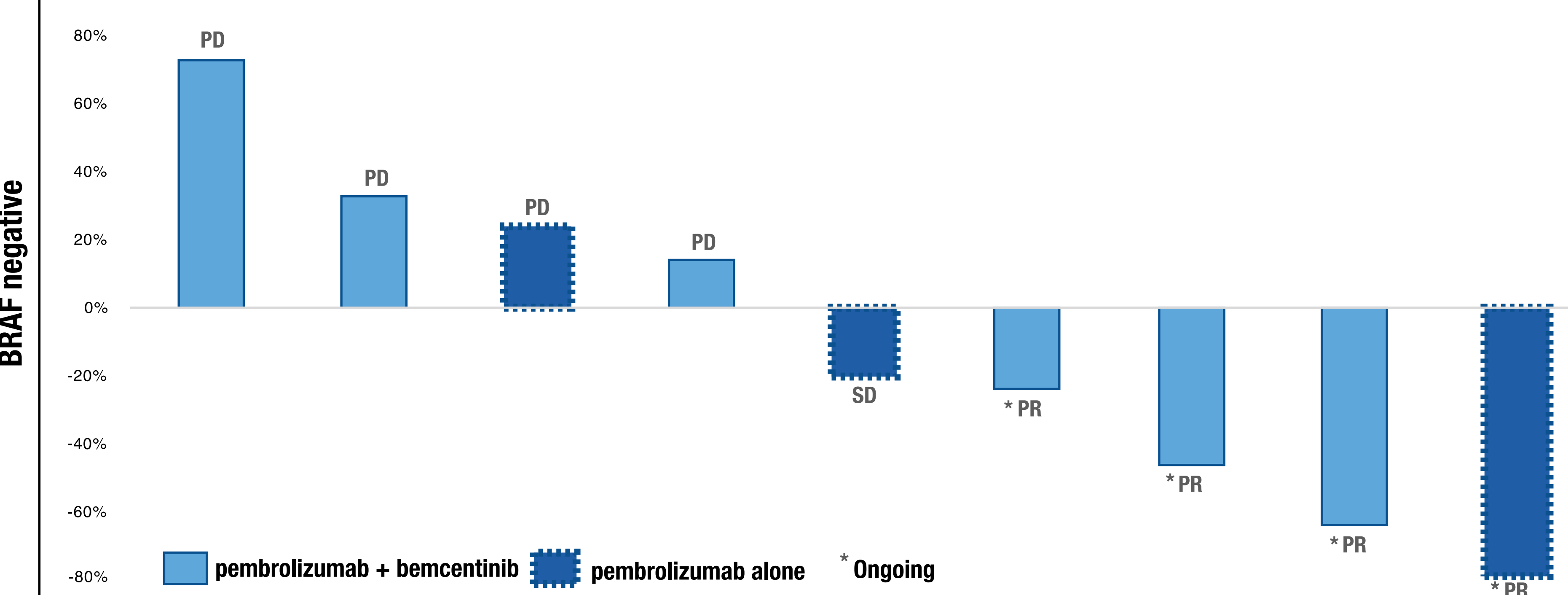
#### Best % change from baseline in target lesions (high tumour load)



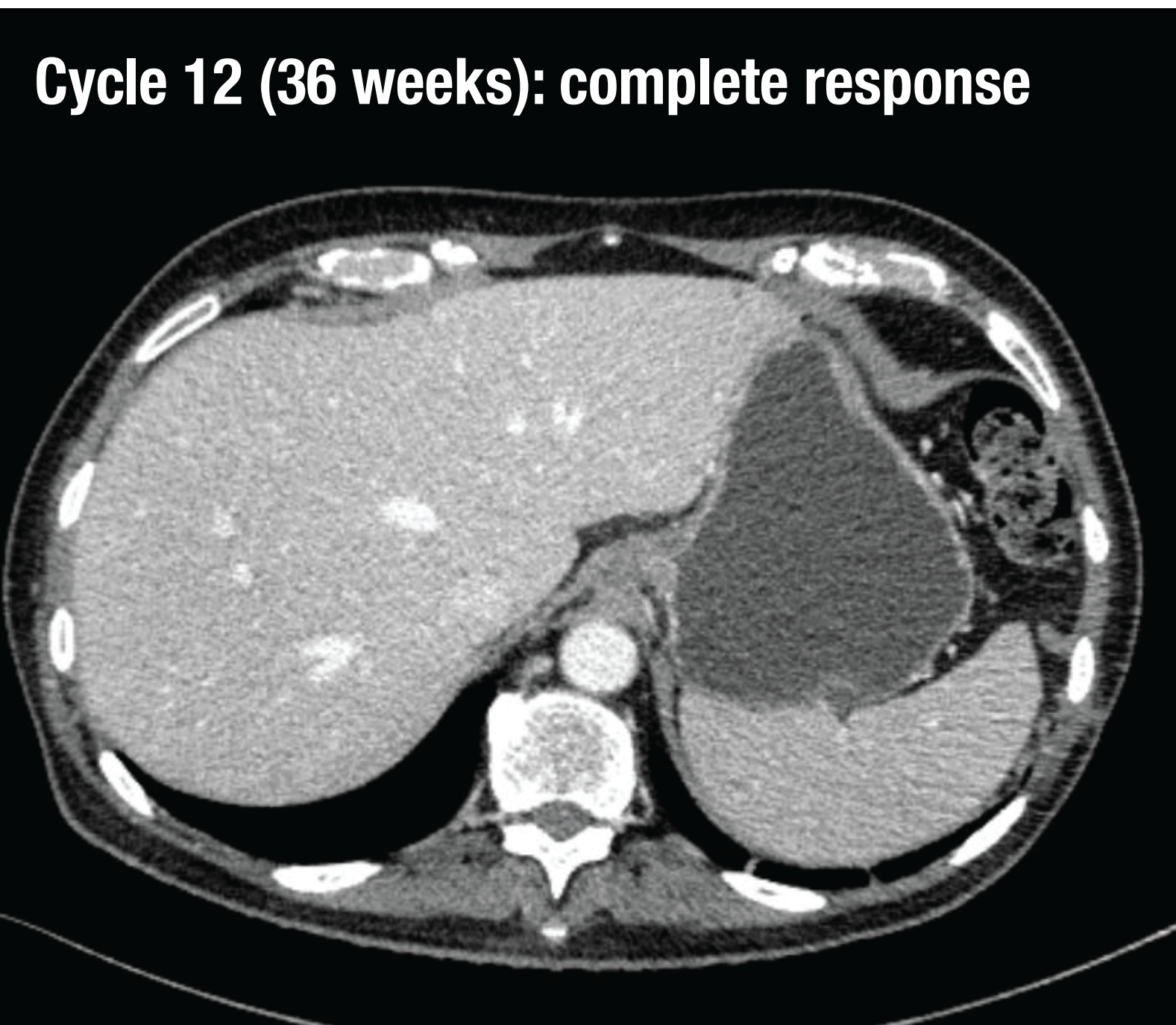
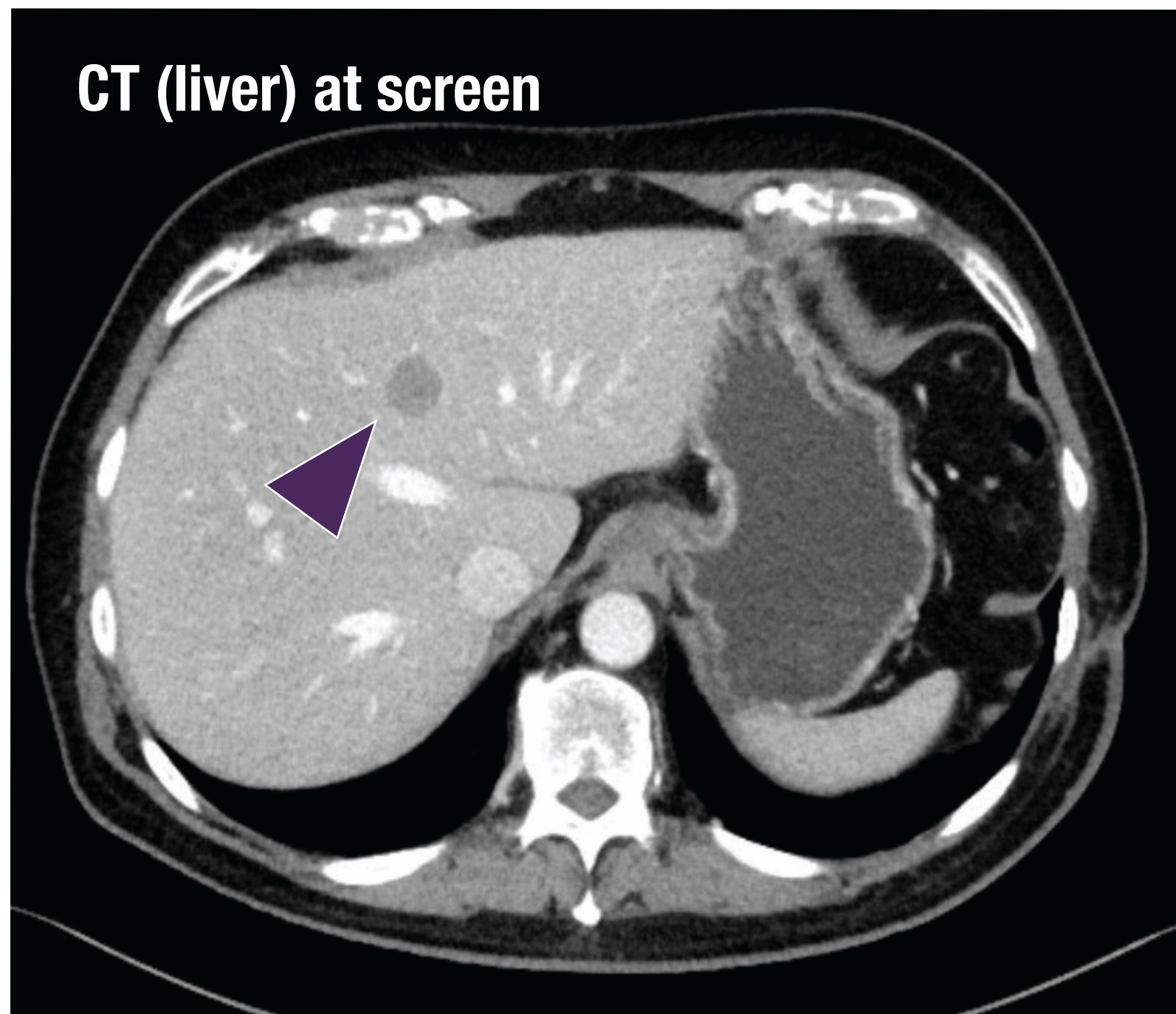
#### Best % change from baseline in target lesions (low tumour load)



#### Best % change from baseline in target lesions (low tumour load)



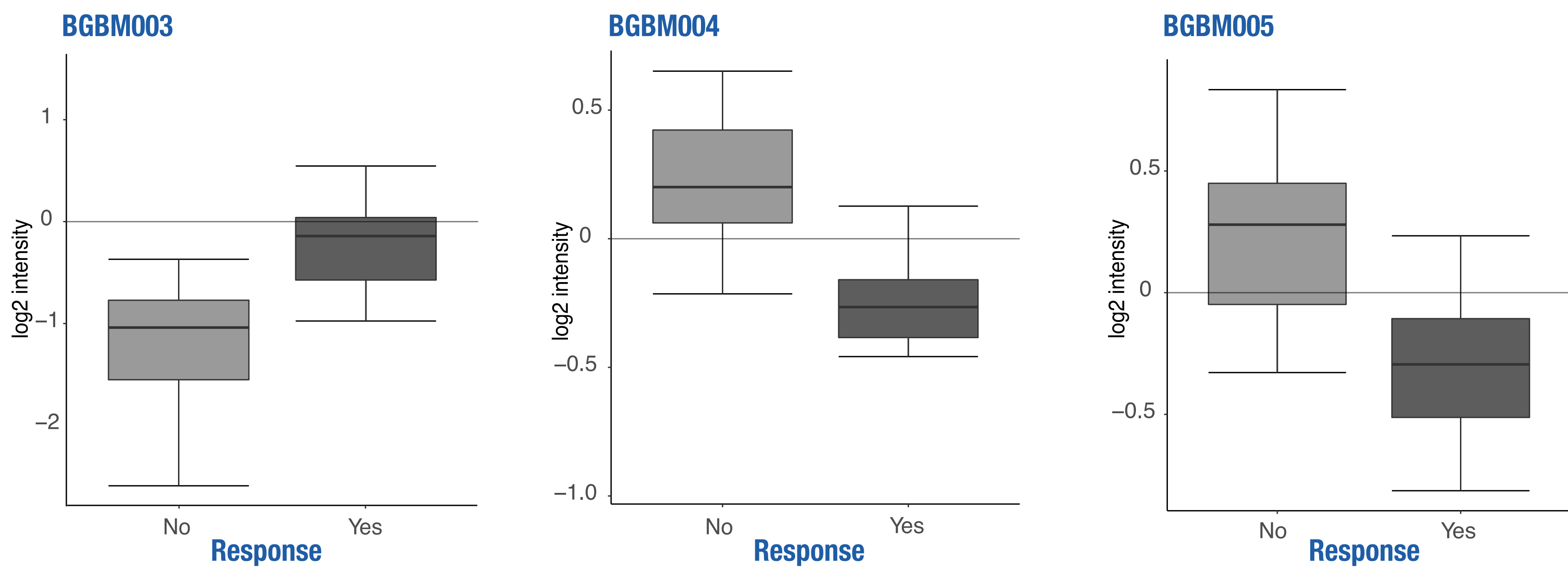
#### Example CR on bemcentinib + dabrafenib/trametinib



A 68-year-old male was randomised to receive 200 mg/daily bemcentinib + standard dabrafenib/trametinib. PET in June 2017 showed distant metastases to liver and possibly lung. Screen LDH normal. Treatment with BRAF/MEK inhibition because of rapid progression from localised to stage IV disease. Treatment started 03 July 2017. At cycle 12, he had a complete response in line with RECIST v1.1.

### Biomarkers

Predictive biomarker candidates: Serum biomarkers BGBM003, BGBM004 & BGBM005 are predictive for patient benefit from combination treatment with bemcentinib



Pharmacodynamics: Serum AXL (sAXL), serum biomarkers BGBM001 & BGBM002 levels increase upon treatment with bemcentinib

