

Nivolumab–relatlimab for untreated unresectable or metastatic melanoma

Slides for public
Confidential information redacted

Technology appraisal committee A, 7 November 2023

Chair: James Fotheringham

Lead team: Hugo Pedder, Alan Thomas, Patrick De Barr

External assessment group: Liverpool Reviews and Implementation Group (LRiG)

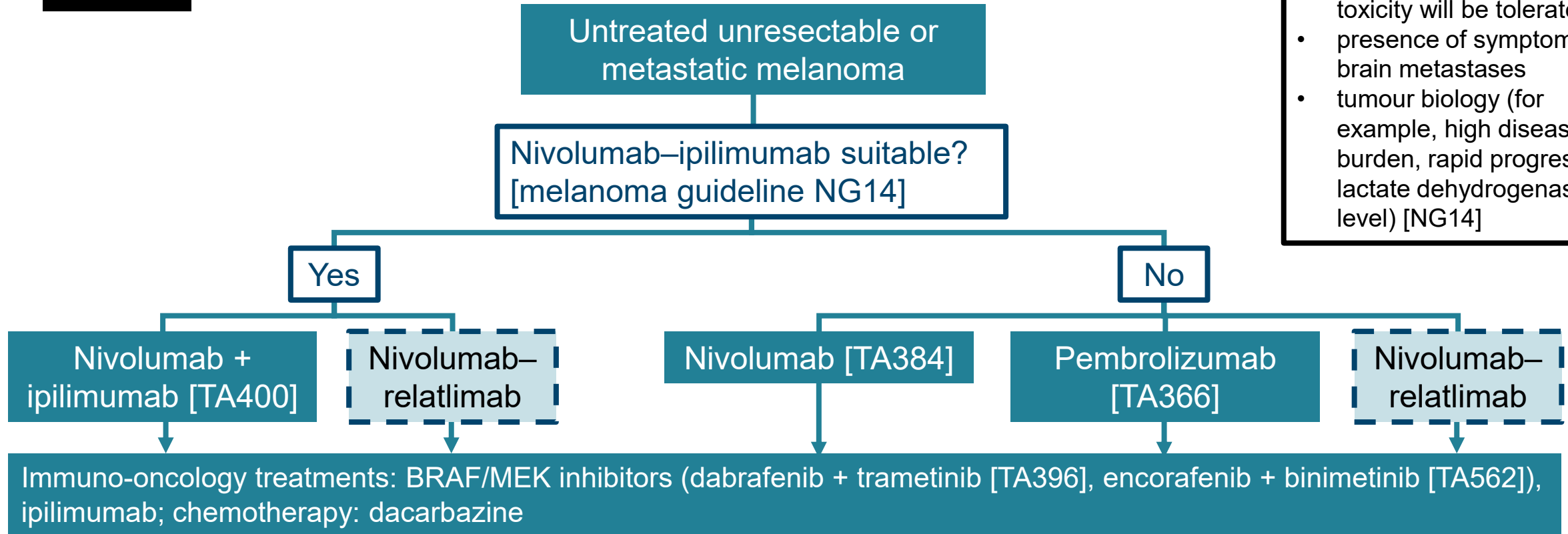
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Company: Bristol-Myers Squibb

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Treatment pathway

- Factors to take into account when choosing treatment:
- comorbidities and performance status
 - risk of treatment toxicity
 - whether potential treatment toxicity will be tolerated
 - presence of symptomatic brain metastases
 - tumour biology (for example, high disease burden, rapid progression, lactate dehydrogenase level) [NG14]



Committee concluded:

- nivolumab–relatlimab would mainly be an alternative to monotherapy in NHS
- could also be an alternative if nivolumab plus ipilimumab an option because MA for all patients

Committee's preferred assumptions after ACM1

Generalisability – committee concluded that available trial evidence could be generalised to:

- everyone in the NHS who could be offered nivolumab–relatlimab
- 12 to 18 year olds

Model input	Committee's preferred assumption (ACM1)	Company/EAG base case (ACM1)
Nivo–rela PFS/OS	Investigator assessed from RELATIVITY-047	Both
Nivo PFS/OS	Investigator assessed from RELATIVITY-047	Both
Nivo + ipi PFS/OS	Constant HRs from company's adjusted ITC	Both
Pembrolizumab PFS/OS	Set equal to nivolumab	EAG
Stopping rule for combination immunotherapies	2 years	Company
Subsequent treatment costs	<p>When comparing nivolumab–relatlimab to the monotherapies:</p> <ul style="list-style-type: none"> • company's proportions of subsequent treatments preferred for nivolumab–relatlimab arm <p>When comparing nivolumab–relatlimab to nivolumab plus ipilimumab:</p> <ul style="list-style-type: none"> • EAG's proportions of subsequent treatments preferred for the nivolumab–relatlimab arm 	Dependent on comparison

NICE Because of remaining OS uncertainty, committee agreed acceptable ICER would be below the range usually considered cost effective (~£25,000 per QALY)

Subsequent treatments

Subsequent treatments pre ACM1 modelled for intervention and comparator by company and EAG (differed for nivolumab-relatlimab arm only)

Subsequent treatments	Nivo+rela (%)	Nivolumab (%)	Pembrolizumab (%)	Nivo + ipi (%)
Dabrafenib + trametinib	19.26	19.26	19.26	19.26
Encorafenib + binimetinib	19.26	19.26	19.26	19.26
Ipilimumab	24.59 [company]; 61.48 [EAG]	61.48	61.48	0
Best supportive care or clinical trials (costed as chemotherapy)	36.89 [company]; 0 [EAG]	0	0	61.48

Requested analyses post ACM1 - comparing nivolumab-relatlimab to monotherapies

- use same company values in both the nivolumab and pembrolizumab arms as nivolumab-relatlimab arm
- plus analyses using proportions suggested by clinical experts in both the nivo-rela and monotherapy arms

Subsequent treatments	Nivo-rela (%)	Nivolumab (%)	Pembrolizumab (%)
Dabrafenib + trametinib	19.26	19.26	19.26
Encorafenib + binimetinib	19.26	19.26	19.26
Ipilimumab	24.59; 20	24.59; 20	24.59; 20
Best supportive care or clinical trials (costed as chemotherapy)	36.89; 41.48	36.89; 41.48	36.89; 41.48

Cost effectiveness results compared with monotherapies

Nivolumab–relatlimab compared with nivolumab

Model assumptions for subsequent treatments	Incremental costs (£)	Incremental QALYs	ICER (£)
Company values (deterministic)	*****	*****	*****
Company values (probabilistic)	*****	*****	*****
Clinical expert’s values (deterministic)	*****	*****	*****
Clinical expert’s values (probabilistic)	*****	*****	*****

Nivolumab–relatlimab compared with pembrolizumab

Model assumptions for subsequent treatments	Incremental costs (£)	Incremental QALYs	ICER (£)
Company values (deterministic)	*****	*****	*****
Company values (probabilistic)	*****	*****	*****
Clinical expert’s values (deterministic)	*****	*****	*****
Clinical expert’s values (probabilistic)	*****	*****	*****

Abbreviations: ICER, incremental cost-effectiveness ratio; QALY, quality-adjusted life year

Cost effectiveness results compared with nivolumab + ipilimumab

Nivolumab–relatlimab compared with nivolumab plus ipilimumab (deterministic)

Model assumptions	Inc costs (£)	Inc QALYs	ICER (£)
EAG subsequent treatment costs (shown in previous part 2 slides [slide 4, R7])	*****	*****	*****

Subsequent treatments	Nivolumab-relatlimab	Nivolumab-ipilimumab
Dabrafenib + trametinib	19.26	19.26
Encorafenib + binimetinib	19.26	19.26
Ipilimumab	61.48 [EAG]	0
Best supportive care or clinical trials (costed as chemotherapy)	0 [EAG]	61.48

Using any other values of subsequent treatments in the nivolumab–relatlimab arm would lower the ICER

OS gains uncertain

Treatment	Before progression	After progression	All patients
Nivolumab–relatlimab	*****	*****	*****
Nivolumab	*****	*****	*****
Nivolumab + ipilimumab	*****	*****	*****
Pembrolizumab	*****	*****	*****

- Background mortality on first-line nivolumab–relatlimab twice that of comparators after progression
- Clinical experts:
 - plausible for some people to reach background mortality after progression
 - immunotherapies could affect OS differently to PFS; those on 2nd-line immunotherapy likely to have better long-term survival
- Post ACM1 information
 - No new OS data available from RELATIVITY-047
 - Fewer people in trial (which was a global trial) on first-line nivolumab–relatlimab had second-line ipilimumab than those on first-line nivolumab

Subsequent treatments from RELATIVITY-047

Subsequent systemic therapy	Nivolumab–relatlimab (n=355) n (%)	Nivolumab (n=359) n (%)
Any	*****	*****
PD-L1 and/or CTLA-4 inhibitors	*****	*****
Nivolumab + ipilimumab	*****	*****
Nivolumab monotherapy	*****	*****
Ipilimumab monotherapy	*****	*****
Pembrolizumab monotherapy	*****	*****
Avelumab monotherapy	*****	*****
BRAF and/or MEK inhibitors	*****	*****
Trametinib + Dabrafenib	*****	*****
Encorafenib + Binimetinib	*****	*****
Dabrafenib	*****	*****
Vemurafenib	*****	*****