Lead team presentation Dabrafenib in combination with trametinib for adjuvant treatment of resected BRAF V600 positive malignant melanoma

1st Appraisal Committee meeting Background and Clinical Effectiveness Committee A Lead team: Adrian Griffin, Justin Daniels and Pam Rees ERG: Warwick Evidence NICE technical team: Sana Khan, Zoe Charles 19 July 2018



Disease Background

- Melanoma is a cancer of the skin that in its advanced stages can spread or metastasise to nearby lymph nodes (stage III) or to other parts of the body (stage IV)
- It occurs more commonly in fair-skinned people and there is strong evidence that ultra violet exposure is causal. People with an above-average mole count, sun-sensitive skin, or a strong family history of melanoma are at increased risk
- In 2016, melanoma was the fifth most common cancer in the UK, with over 13,000 cancer registrations. In England, 6% of melanomas were diagnosed at stage III and 2% at stage IV
- Around half of people with stage III melanoma will experience a distant (metastatic) recurrence, for which the prognosis is historically extremely poor (5-year overall survival [OS] rates range from 5% to 20%)
- A mutated form of the BRAF gene (BRAF V600) is found in 40-65% of melanomas. The mutated gene means that the cells produce too much BRAF protein, leading to uncontrolled cell division and growth of the tumour. A diagnostic test is used to detect the BRAF mutation
- Melanoma disproportionately affects a younger population than other cancers, with a significant impact on patients, carers and wider society

Current management

- Standard treatment of stage III melanoma, usually possible for 90% of patients, is
 resection including removal of the primary tumour and associated lymph nodes
- Following complete resection, people are still at a high risk of disease recurrence, with 5- and 10-year relapse free survival (RFS) rates of 57% and 36%¹
- In the EU, interferon-α-2b is the only licensed therapy for the adjuvant treatment of stage III melanoma in people who are disease-free after surgery but at high risk of systemic recurrence
 - however, interferon-α-2b is not used in clinical practice in the UK because of uncertainty in the reported overall survival (OS) benefit and associated adverse events
- Standard of care for patients with resected stage III melanoma in the UK is routine surveillance which includes regular clinical review and imaging surveillance

¹ Leiter U, Buettner PG, Eigentler TK, et al. Hazard rates for recurrent and secondary cutaneous melanoma: an analysis of 33,384 patients in the German Central Malignant Melanoma Registry. J Am Acad Dermatol 2012;66:37-45.

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CONFIDENTIAL Details of the technologies					
	Dabrafenib (Tafinlar; Novartis) Tr	ametinib (Mekinist; Novartis)			
Anticipated MA					
Mechanism of action	Selective inhibitor of BRAF V600 kinase activity and blocks the activity of mutant protein kinase causing the cancer cells to stop growing and die	Inhibitor of MEK1 and MEK2 kinases and blocks the action of the abnormal BRAF protein, with the aim of slowing growth and spread of the cancer			
Administration & dosage	Oral,150 mg (two 75 mg capsules) twice daily	2 mg (one tablet) once daily			
Duration of treatment	12 months or less if there is disease recurrence or unacceptable toxicity	12 months or less if there is disease recurrence or unacceptable toxicity			
Cost	List price for 28 capsules of dabrafenib 75 mg: £1,400	List price for 30 tablets of trametinib 2 mg: £4,800			
	Patient access schemes agreed for each technology involving a sing confidential discount applied to the list price of dabrafenib and trame				
Avg cost of course of treatment	Based on average number of packs in COMBI-AD: List price: £ PAS price: £				
Other licensed indications	Licensed as monotherapies or in combination for treatment of adults with unresectable or metastatic melanoma with a BRAF V600 mutation. Recommended in NICE TA 396 (combination) and TA321 (Dabrafenib)				



Decision		
Decision	prop	em

	NICE scope	Company submission
Population	People with completely resected, stage III melanoma with BRAF V600 positive mutations	Adult patients with stage III melanoma with a BRAF V600 mutation, following complete resection
Intervention	Dabrafenib plus trametinib	Dabrafenib plus trametinib
Comparator	Routine surveillance	Routine surveillance
Outcomes	Overall survival	Relapse-free survival
	Relapse-free survival	Overall survival
	Distant metastases free survival	Distant metastases free survival
	Adverse effects of treatment	Freedom from relapse
	Health-related quality of life	Adverse effects of treatment
		Health-related quality of life



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Company's clinical evidence: COMBI-AD				
Design	Randomised, double-blind, placebo-controlled, phase III			
Population	Adults with completely resected, histologically confirmed, BRAF			
(n= 870)	V600E/K mutation-positive, high risk (defined as stage IIIA [lymph node metastasis >1 mm], IIIB or IIIC) cutaneous melanoma; patients with initial resectable lymph node recurrence after a diagnosis of stage I or II melanoma were also eligible			
Intervention	Dabrafenib 150 mg twice daily plus trametinib 2 mg once daily for 12 months (n=438)			
Comparator	Two matched placebos for 12 months (n=432)			
Location	169 international study sites in 26 countries from Europe (including 13 sites in the UK), North and South America, Asia and Oceania. This included 86 patients from the UK:			
Primary endpoint	Relapse free survival (RFS) - investigator assessed			
Key secondary endpoints	 Overall survival (OS) Distant metastasis free survival (DMFS), Freedom from relapse (FFR) Safety 			
Duration of study and follow-up	Treatment period 12 months. Discontinuation could occur earlier due to disease recurrence, death, unacceptable toxicity or withdrawal of consent. Median follow-up time was the data in the datafenib plus trametinib arm and the datafenib in the placebo arm at data cut-off for the primary analysis (30th June 2017)			

Baseline characteristics in COMBI-AD

Characteristic	Dabrafenib plus trametinib (N=438)	Placebo(N=43 2)		
Demographics				
Age, median years (range)	50 (18–89)	51 (20–85)		
Sex, n (%)				
Male				
Female				
Disease characteristics				
BRAF mutation status, n (%)				
V600E	397 (91)	395 (91)		
V600K	41 (9)	37 (9)		
Disease stage, n (%)				
IIIA	83 (19)	71 (16)		
IIIB	169 (39)	187 (43)		
IIIC	181 (41)	166 (38)		
III unspecified	5 (1)	8 (2)		
Prior therapy				
Sentinel lymphadenectomy, n (%)				
Lymph node dissection, n				
Median number of lymph node				
removed				
Median time from initial diagnosis		10		
(months)		10		

















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