

Australian Government

Medical Services Advisory Committee

Public Summary Document

Report to the Medical Services Advisory Committee on real world outcomes of Application 1207: Testing for V600 status in patients with locally advanced or metastatic melanoma for access to appropriate therapies

Medicare Benefits Schedule (MBS) item considered: 73336

Date of MSAC consideration: 24-25 November 2016

Context for decision: MSAC makes its advice in accordance with its Terms of Reference, see the <u>MSAC Website</u>

1. Purpose

The purpose of the report presented to the Medical Services Advisory Committee (MSAC) was to inform MSAC of the real world impacts on the outcomes of Application 1207. The MSAC then uses this information to ensure that the new item/s resulting from this application/s is being used as intended.

The report is not intended to be a review of the clinical information covered during the application process.

2. MSAC's advice

After considering the real world impacts of the outcome of application 1207 for testing of *BRAF* V600 status in patients with locally advanced or metastatic melanoma for Pharmaceutical Benefits Scheme (PBS) access to appropriate therapies (MBS item 73336), MSAC identified several potential inappropriate co-claiming issues and recommended referral to the department to investigate further.

3. Summary of consideration and rationale for MSAC's advice

MSAC considered the real world impacts of the outcome of application 1207 for testing of *BRAF* V600 status in patients with locally advanced or metastatic melanoma for PBS access to appropriate therapies, by examining the available data for the relevant item number. This involved the review of MBS item number 73336 which specifies testing for access to dabrafenib on the PBS. In the March 2016 meeting, MSAC supported an amendment to item 73336 for the addition of access to PBS listed vemurafenib, which is yet to be implemented.

MSAC noted that utilisation of item 73336 appears to have levelled out below the estimated service volume. In comparing utilisation of item 73336 with a predicted versus actual

analysis of dabrafenib undertaken by the Drug Utilisation Sub Committee¹, MSAC noted that the number of services for 73336 is consistent with the number of patients who go on to access dabrafenib.

MSAC noted that there was marked variation in the bulk billing rates and the fees charged for item 73336 and that the data on the fee charged may be of interest to consumers and other payers.

MSAC noted that there were more services provided in hospital than anticipated with variation evident across the states.

In considering the co-claiming data for item 73336 MSAC noted that there were instances of co-claiming with MBS item 73338 for metastatic colorectal cancer (stage IV) for *RAS* gene mutation status for PBS access to cetuximab or panitumumab and questioned the appropriateness of this co-claiming. MSAC also noted instances of co-claiming with MBS items 72846 and 72847 for immunohistochemical examination of biopsy material. MSAC questioned the use of a four panel test unless the initial diagnosis was in doubt.

MSAC recommended referral to the department to investigate further co-claiming of MBS items 73338, 72846 and 72847 with MBS item 73336.

4. Methodology

An application is selected for consideration if the resulting new item(s) or item amendment(s) have been on the MBS for approximately 24 months or longer or if there were particular concerns about utilisation such that MSAC requested to consider it earlier. The specific applications for each MSAC meeting are selected by the MSAC Executive which is composed of the Chairs of MSAC and its sub-committees.

A report on the utilisation is developed by the Department of Health (the department) with information on a number of metrics including state variation, patient demographics, services per patient, practitioner's providing the service, data on fees and co-claiming of services. The number of metrics included in a report is dependent on the annual service volume for the MBS item(s) under consideration i.e. an item with very low utilisation will have less data to analyse. Where service volumes are too low, information is suppressed to protect patient privacy.

Where possible the report compares data on real world utilisation to the assumptions made during the MSAC assessment. Most of these assumptions are drawn from the assessment report.

Relevant stakeholders are provided an opportunity to comment on the findings in the report before it is presented to the MSAC. It is intended that stakeholders are given at least three weeks to consider the reports.

The stakeholder version of the report does not contain information on assumptions from the MSAC consideration if this information is not already publicly available. This is to protect the commercial in confidence of the original applicants. The same principle is applied to this document.

¹DUSC report on Iplilimumab and dabrafenib: predicted vs actual analysis is on the <u>Pharmaceutical Benefits</u> <u>Scheme website</u>

Once MSAC has considered the report, its advice is made available online at the <u>MSAC</u> <u>Website</u>.

5. Results

Utilisation

Utilisation of this service appears to be levelling out with 1,712 services claimed in 2015-16 (Figure 1). Month to month data also indicates a levelling out of utilisation of this service (Figure 2). The majority of services are for patients in NSW, QLD and VIC (Table 1).

Table 1	ber vices an	lu benents pa	nu per state		III 75550 II	0111 2014 13	10 201	5 10		
		NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Australia
	Services									712
2013-		np	np	np	np	np	np	np	np	
14	Benefits									\$94,524
		np	np	np	np	np	np	np	np	÷ -) -
	Services									1,577
2014-		420	524	349	122	104	np	np	47	.,
15	Benefits									
		\$82,214	\$101,833	\$66,325	\$23,489	\$20,005	np	np	\$9,263	\$305,242
	Services									1,712
2015-		632	397	457	79	92	np	np	41	.,,, 12
16	Benefits									
		\$123,961	\$76,423	\$86,110	\$15,027	\$17,553	np	np	\$8,027	\$329,779
ND	4 11.1	1 due to low	1							

Table 1: Services and benefits paid per state for MBS item 73336 from 2014-15 to 2015-16

NP = not published due to low volumes Source: Department of Health

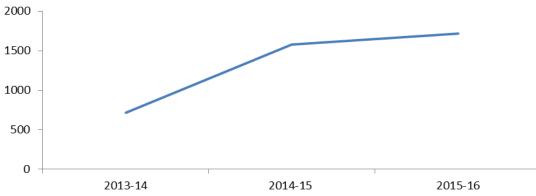


Figure 1: Services of MBS item 73336 for 2013-14 to 2015-16 Source: Department of Health

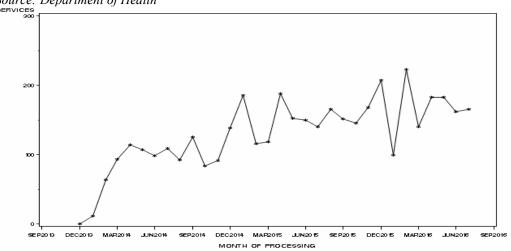


Figure 2: Month by month comparison of service volume for MBS item 73336 Dec 2013 to June 2016 Source: Medicare statistics online

Patient breakdown

The number of patients utilising this service is about 1,500 per year.

Most patients received a single service for this MBS item over the course of a year. Since the item was listed, 7% of patients have received two or more services (Tables 3 and 4). This is comparable to the retest rate of 9.4% for BRAF V600 that MSAC noted in its August 2012 meeting (*MSAC PSD, app 1207, August 2013*).

Males received the service two to three times more than females, with high utilisation in the 55-84 age groups (Figure 3). This is consistent with the expected population.

7	Fable 2: Number of	patients	who r	eceived	item 7	'3336 at	t least o	once ir	n 2013-	14, 1	2014-15	or 2015-16

Patients	NSW	VIC	QLD	SA	WA	TAS	NT	АСТ	Australia
2013-14	np	np	np	np	np	np	np	np	677
2014-15	402	513	328	117	104	np	np	np	1,504
2015-16	599	380	429	77	88	np	np	np	1,615

NP = not published due to low volumes

Note: State breakdown redacted for 2013-14 due to low volumes

	Services	# of patients	% of patients
	1	643	95%
2013-14	2+	34	5%
	Total	677	100%
	1	1,433	95%
2014-15	2+	71	5%
	Total	1,504	100%
	1	1,523	94%
2015-16	2+	92	5%
	Total	1,615	100%

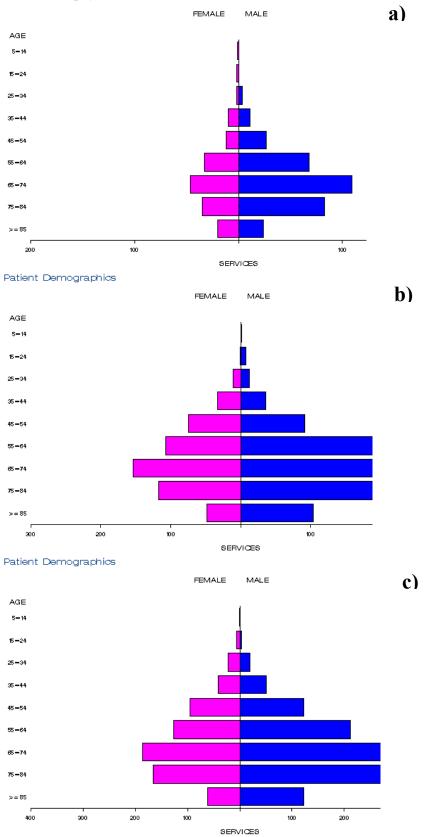
Table 3: Number of services per patient in 2013-14, 2014-15 and 2015-16

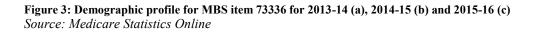
Table 4: Number of services	ner natient since th	e service was listed on	1 December 2013 to June 2016
Table 4. Rumber of services	per patient since th	c sel vice was instea on	1 Determber 2010 to oune 2010

Services per patient	Number of patients	Percentage
1	3,479	93%
2	243	7%
3	12	0%
Total	3,734	100%

Source for tables 2-4: Department of Health

Patient Demographics





Practitioner breakdown

From 2013-14 to 2015-16, the number of practitioners providing this service grew from 31 to 52 (Table 5). The majority of practitioners were specialists in pathology and the remaining were specialists in haematology.

About 20% of practitioners are providing 80% of services (Table 7).

Table 5: Number of practitioners providing item 73336 in 2013-14 to 2015-16

Financial year	Australia
2013-14	31
2014-15	45
2015-16	52

 Table 6: Practitioner specialties providing item 73336 from 2013-14 to 2015-16

	2013-14	2014-15	2015-16
Specialist - Pathology	712	1,577	1,711

 Table 7: Cumulative percentage of medical practitioners providing item 73336 and how many services each percentile accounts for in 2013-14 to 2015-16

	2013-14	2014-15	2015-16
10%	57%	68%	64%
20%	75%	83%	78%
30%	85%	89%	88%
40%	92%	94%	93%
50%	96%	96%	96%
60%	98%	98%	98%
70%	99%	99%	99%
80%	99%	100%	99%
90%	100%	100%	100%
100%	100%	100%	100%

Source for tables 5-7: Department of Health

Co-claiming

In 2014-15 and 2015-16, the service was most frequently claimed either by itself or with items 73938, 73940 and 72846 (Tables 9 & 10). The rate of claiming the service by itself decreased from 40% in 2013-14 to 13% in 2015-16 (Tables 8 & 10).

Table 8: To	p 10 instances of co-claiming with	MBS item 7.	3336 in 2013	8-14

#	Items	Episodes	Number of Services	Schedule Fee for Combination	% of total episodes	Cumulative %
1	73336	283	284	\$65,590	40%	40%
2	73336, 73938.	195	391	\$46,816	28%	68%
3	73336, 73940.	64	129	\$15,668	9%	77%
4	73336, 72846.	29	58	\$8,426	4%	81%
5	73336, 73939.	23	46	\$5,367	3%	84%
6	73336, 72846, 73939.	np	np	np	np	
7	73336, 72830, 72846, 73924.	np	np	np	np	
8	73336, 73928.	np	np	np	np	
9	73336, 73931.	np	np	np	np	
10	73336, 73930.	np	np	np	np	

NP = not published due to low volumes

Table 9: Ton	10 instances of	co-claiming with	MBS item	73336 in 2014-15
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#	Items	Episodes	Number of Services	Schedule Fee for Combination	% of total episodes	Cumulative %
1	73336, 73940.	423	847	\$102,259	27%	27%
2	73336, 73938.	278	556	\$66,414	18%	45%
3	73336	255	256	\$59,123	16%	61%
4	73336, 72846.	147	296	\$43,001	9%	70%
5	73336, 73939.	130	260	\$30,336	8%	78%
6	73336, 72846, 73939.	46	138	\$13,476	3%	81%
7	73336, 72846, 73940.	20	60	\$6,016	1%	82%
8	73336, 72830, 73924.	19	57	\$9,875	1%	83%
9	73336, 72830, 72846, 73924.	12	48	\$6,952	1%	84%
10	73336, 73928.	9	18	\$2,132	1%	85%

#	Items	Episodes	Number of Services	Schedule Fee for Combination	% of total episodes	Cumulative %
1	73336, 73938.	297	594	\$70,953	16%	16%
2	73336, 73940.	261	523	\$63,184	14%	30%
3	73336, 72846,73939.	248	746	\$72,656	13%	43%
4	73336, 73939.	245	490	\$57,171	13%	56%
5	73336	228	228	\$52,657	12%	68%
6	73336, 72846.	59	118	\$17,142	3%	71%
7	73336, 72830, 72846, 73924.	27	109	\$15,873	1%	72%
8	73336, 72846, 73940.	20	60	\$6,016	1%	73%
9	73336, 73338, 73938.	18	54	\$10,827	1%	74%
10	73336, 72830, 72847, 73924.	15	62	\$9,599	1%	75%

Source for tables 8-10: Department of Health

Data on fee charged

The average fee in NSW increased from \$242 in 2014-15 to \$311 in 2015-16, potentially driven by the 95th percentile for fees in NSW going from \$277 in 2014-15 to \$693 in 2015-16 (Table 11). The rate of bulk billing was highest over the three years in NSW and VIC and lowest in QLD and WA.

		Provider State/Territory								
	-	NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Australia
2014- 15	Average Fee Charged	\$242	\$225	\$296	\$242	\$230	np	np	np	\$258
	Std Deviation	\$21	\$47	\$61	\$28	\$58	np	np	np	\$60
	Median Fee Charged	\$231	\$196	\$299	\$231	\$196	np	np	np	231
	75th Percentile	\$231	\$231	\$315	\$231	\$248	np	np	np	300
	95th Percentile	\$277	\$351	\$355	\$298	\$323	np	np	np	355

Table 11: Statistics on fees charged for MBS item 73336 for 2014-15 to 2015-16.

		Provider State/Territory								
		NSW	VIC	QLD	SA	WA	TAS	NT	ACT	Australia
	2									
	Bulk- billing Rate	93%	90%	66%	79%	37%	np	np	np	81%
2015- 16	Average Fee Charged	\$311	\$246	\$292	\$251	\$275	np	np	np	\$277
	Std Deviation	\$152	\$56	\$52	\$41	\$76	np	np	np	\$70
	Median Fee Charged	\$231	\$231	\$299	np	\$300	np	np	np	\$291
	75th Percentile	\$321	\$284	\$315	np	\$307	np	np	np	\$300
	95th Percentile	\$693	\$372	\$358	np	\$349	np	np	np	\$358
	Bulk- billing Rate	96%	80%	64%	70%	49%	np	np	np	79%

Np = not printed

Source: Department of Health

6. Background

GlaxoSmithKline Australia (GSK) lodged a major submission to the March 2013 Pharmaceutical Benefits Advisory Committee (PBAC) meeting requesting PBS listing of dabrafenib for patients with locally advanced unresectable stage III or IV melanoma. GSK also submitted a complementary fit-for-purpose minor submission to the April 2013 MSAC meeting for the related BRAF V600 mutation testing.

Both submissions were deferred by the respective Committees. MSAC deferred the application for BRAF V600 mutation testing until PBAC reconsidered the PBS listing of dabrafenib.

GSK lodged a minor resubmission for dabrafenib to the July 2013 PBAC meeting. To ensure coordination of advice to the Minister from MSAC and PBAC, the Department prepared a short paper to enable the August 2013 MSAC meeting to reconsider BRAF V600 mutation testing.

The determination of the BRAF mutation status of melanoma tumours is important prior to commencing treatment with a BRAF inhibitor. The relationship between BRAF mutation status and a patient's response to treatment with BRAF inhibitors (including dabrafenib) leads to a co-dependent relationship between BRAF mutation testing and BRAF inhibitor treatment.

Prior to the listing of this service on the MBS, a small number of laboratories in Australia did offer the service for a fee.

The listing was supported by PBAC at is July 2013 meeting and by MSAC at its August 2013 meeting.

 $^{^{2}}$ The 95th percentile fee charged represents that 95% of the time the fee is below this amount but in 5% of cases, the fee is higher than this.

7. Item descriptor

A test of tumour tissue from a patient with unresectable stage III or stage IV metastatic cutaneous melanoma, requested by, or on behalf of, a specialist or consultant physician, to determine if the requirements relating to BRAF V600 mutation status for access to dabrafenib under Pharmaceutical Benefits Scheme (PBS) are fulfilled.

73336 **Fee:** \$230.95 **Benefit:** 75% = \$173.25 85% = \$196.35

8. Applicant's comments on MSAC's public summary document Nil response

9. Further information on MSAC

MSAC Terms of Reference and other information are available on the MSAC Website at: <u>www.msac.gov.au</u>.