7.10 OSIMERTINIB, Tablet, 40mg and 80mg,

1

- , ___U _____ The minor resubmission requested a General Schedule, Authority Required listing for osimertinib for the treatment of patients with locally advanced or metadratic epidermal growth factor receptor (EGFR) T790M mutation positive cancer (NSCLC) who have progressed on or after kinase inhibitor (TKI). 1.1
- The first major submission was rejected by the PBAC at its November 2017 meeting, 1.2 followed by a subsequent major resubmission that was defeded by the PBAC at its July 2018 meeting.
- The current minor resubmission sought to further charge the elements of the risk 1.3 sharing arrangement (RSA) proposed by the spons on its pre-PBAC response for the July 2018 resubmission, and address other outstanding matters raised by the PBAC.

2

- Requested listing At its July 2018 consideration of osimertinib, the PBAC advised that the criterion 'The 2.1 patients must have a WHO performence status of 2 or less' be added to the proposed restriction to maintain alignmen with the restrictions of the currently PBS-listed first line tyrosine kinase inhibiters (TKIs), i.e. erlotinib and gefitinib (paragraph 7.2, osimertinib public summer (PSD), July 2018 PBAC meeting).
- 2.2 The restriction proposed in the minor resubmission did not incorporate this criterion. However, the pre-RBAC response accepted the addition of the criterion "Patient must have a WHO portormance status of 2 or less".
- . HC ... restrictio suggestions a strikethrough. these documents were The restriction proposed by the minor resubmission has been reproduced below, with suggestions and additions proposed by the Secretariat in italics, and deletions in

Name, Restriction, Manner of administration a		ax. №.of ty Rpts	Dispensed Price for Max. Qty	Proprietary Manufa	Name and cturer	20
OSIMERTINIB 80 mg tablet, 30	1	5	\$ (published) \$ (effective)	Tagrisso®	AstraZeneca Pty Ltd	of Health
Category / Program Prescriber type: Severity: Condition:	Locally advanced Non-small cell lur	dical Practition (Stage IIIB) ng cancer (N	oners Nurse practitioner or metastatic (Stage IV) SCLC)	s Optometrists [Midwives of	
PBS Indication: Treatment phase:	Locally advanced Initial treatment	(Stage IIIB)	or metastatic (Stage IV) no			
Restriction Level / Method:	Restricted ber Authority Req Authority Req Authority Req Authority Req Streamlined	uired - In Wri uired - Telep uired - Emerg uired - Electr	ting none gency onic	1982 Dy the		
Clinical criteria:	AND Patient must hav AND Patient must hav receptor (EGFR)	e a WHO per e progressive tyrosine kina	formance status of or less disease for wing treatmer se inhibio (TKI).	bsidised therapy for t s, nt with an epidermal	this condition, growth factor	
Population criteria:	following progres	sion on or af	a TROM mutation of the E Son EGFR TKI.	Ū	r tissue material	
Administrative Advice	No increase in th No increase in th Special Pricing A	e maximum e maximon r	uantity or number of units r number of repeats may be a	may be authorised. authorised.		

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Name, Restriction, Manner of administration a	and form	Max. Qty	№.of Rpts	Dispensed Price for Max. Qty	Proprietary Manufa	acturor
Osimertinib						
0 mg tablet, 30		1	5	\$		AstraZeneca
o mg (c,		·	c	(published)	Tagrisso®	Pty Ltd
				\$ (effective)		J
			_	\$ (published)		
30 mg tablet, 30		1	5	\$ (effective)		<u>ب</u>
				(0.000.10)		an'
Category / Program	GENERAL	– Genera	Schedule	e (Code GE)		AstraZeneca Pty Ltd
Prescriber type:					s Optometrists	
Severity:				or metastatic (Stage IV)		
Condition:	Non small	coll lung cr	ancor (NIS)			$\mathbf{\vee}$
PBS Indication:	Locally adv	vanced (St	age IIIB) c	or metastatic (Stage IV) non	1-small cell lups	hcer
Treatment phase:	Continuing	treatment	<u>-g. ,</u> t		12	
Restriction Level /		ted benefit			1982 DN	
Method:		ty Required		Ing	-051	
		ty Required		ione	NO1~	
	Authorit	ty Required	d - Emerge	ency 🔉		
	Authorit	ty Required	d - Electro	mic 💊	,	
	Stream	lined		<u> </u>		
Clinical criteria:	The treatm	ient must k	Je as monr	eceived PEC-subsidised treations	sidised therapy for	this condition,
	AND			A.		
	Patient mu	ist have pre	eviously re	eceived PBS-subsidised tre	atment with this dru	ug for this
	condition,					
	AND					
			e progress	disease following PBS-	subsidised treatme	nt with this drug
	for this con		$-\alpha$		the south solve of	
Administrative Advice	No increas	e in the ma	axion dr	uantity or number of units m	hay be authorised.	
				umber of repeats may be au	uthorisea.	
	Special Pri	.cing Arran	igements a	apply.		

hese documents were the

Name, Restriction, Vanner of administration a	nd form	Max. Qty	№.of Rpts	Dispensed Price for Max. Qty	Proprietary Manufa	oturor
Osimertinib						
40 mg tablet, 30		1	5	\$	Tagrisso®	AstraZeneca
				(published)	ragiisso -	Pty Ltd
				\$ (effective)		
0 m m tablat 20		1	F	\$ (mulaliale ad)		×
30 mg tablet, 30		1	5	(published) \$ (effective)		al al
				⊅ (enective)		and the second
Category / Program	GENERAL	– General	Schedule	(Code GE)		AstraZeneca Pty Ltd
Prescriber type:			I Practition		s Optometrists	W rives
Severity:				r metastatic (Stage IV)	•	\overline{O}
Condition:					0	•
PBS Indication:	Locally adv	anced (St	age IIIB) o	CLC) r metastatic (Stage IV) nor	n-small cell lung car	ncer
Treatment phase:	Grandfathe	ring treatr	nent	-	60	
Restriction Level /		ed benefit			<u></u>	
Method:	Authorit			ng	SO.	
			d - Telepho	one		
					•	
	Authorit					
Clinical criteria:	Dationt mus	t have nr		ng one ency hic ceived non-Plat subsidise	d treatment with this	s drug for this
onnical criteria.	condition p	ior to flisti	na datel			s drug för tills
	AND		ng datej,	and the second s		
	The treatme	ent must b	e as -mone	otherapy the sole PBS-sub	sidised therapy for	this condition,
	AND					
	Patient mus	st have pro	ogressive	Sease following treatmen	t with an epidermal	growth factor
	receptor (E	GFR) tyro	sine koase	e inhibitor (TKI).		
	AND					c
Deve teller relieve	Patient mus	st not have		ive disease following treat	ment with this drug f	for this condition.
Population criteria:	Patient mus	st have ev	Idence of a	a T790M mutation of the E	GER gene in tumou	ir tissue material
Dracaribing Instructions	10110Wing pr	OCCASSION	for DDS of	r an EGFR TKI. ubsidised treatment under	this restriction once	
Prescribing Instructions Administrative Advice				antity or number of units r		e only.
Auministrative Auvice				imber of repeats may be a		
Ø		,	gomonto u	'YY'J'		

Background 3

Osime while was registered by the TGA on 3 August 2016 for "the treatment of patients 3.1 These documents, with locally advanced or metastatic EGFR T790M mutation-positive non-small cell lung sancer".

The November 2017 codependent submission requested:

- Pharmaceutical Benefits Schedule (PBS) listing for osimertinib in patients with locally advanced or metastatic epidermal growth factor receptor (EGFR) T790M mutation positive non-small cell lung cancer (NSCLC), who have progressed on or after treatment with an EGFR tyrosine kinase receptor (TKI); and
- Medicare Benefits Schedule (MBS) listing for EGFR T790M mutation testing in patients with locally advanced or metastatic NSCLC, to determine eligibility for access to PBS-subsidised osimertinib.

- 3.3 At its November 2017 consideration of the codependent submission, the PBAC decided not to recommend osimertinib. Although accepting that osimertinib is more effective than standard chemotherapy, the PBAC advised that the magnitude of incremental overall survival benefit was difficult to determine from the evidence presented in the submission, and this was an important driver of the economic evaluation. Additionally, the PBAC had concerns with other aspects of the economic model, which resulted in a high and overly optimistic estimated incremental cose effectiveness ratio at the price requested by the submission (paragraph 11, osimertinib Public Summary Document (PSD), November 2017 PBAC meeting).
- 3.4 At its November 2017 meeting, the MSAC deferred its advice¹ until such time as the PBAC decides to recommend the PBS listing of osimertinib for the requested population. MSAC foreshadowed its support for a new MBS item for EGFR T790M mutation testing in tumour tissue obtained after progression on or after therapy with a TKI to help determine eligibility for PBS-subsidised second te osimertinib for the targeted treatment of patients with locally advanced (stage INB) or metastatic (stage IV) NSCLC. This support is subject to a PBAC recommendation to list osimertinib once PBAC's concerns regarding the medicines' cost effectiveness are resolved (paragraph 3.4, osimertinib PSD, July 2018 PBAC meeting).
- 3.5 At its July 2018 meeting, the PBAC deferred making a recommendation to list osimertinib, requesting further clarification from the sponsor regarding the proposed risk sharing arrangement and utilisation estimates. In deciding to defer, the PBAC acknowledged that osimertinib treatment provided a clinical benefit to some patients, but considered that the magnitude of the incremental overall survival benefit was difficult to determine from the available evidence (paragraph 7.1, osimertinib PSD, July 2018 PBAC meeting).

4 Comparator

4.1 The place in the ray and comparator was appropriately unchanged from the previous submission.

5 Consideration of evidence

Sponsor

5.1 SThere was no hearing for this item.

these 00 5.2 The PBAC r Conc

The PBAC noted and welcomed the input received from individuals (5) via the Consumer Comments facility on the PBS website. The comments described a range of

¹ <u>http://www.msac.gov.au/internet/msac/publishing.nsf/Content/1407-public</u>

benefits of treatment with osimertinib, including improvements in quality of life and reduced side effects compared to chemotherapy.

5.3 The Medical Oncology Group of Australia (MOGA) also expressed its strong support for the osimertinib submission categorising it as one of the therapies of "highest priority for PBS listing". The PBAC noted that the MOGA presented a European Society for Medical Oncology Magnitude of Clinical Benefit Scale (ESMO-MCBS) of 4 (out of maximum of 5, where 5 and 4 represent the grades with substantial improvement based on a progression-free survival benefit compared with chemotherapy. The noted that the MOGA was unable to calculate the ESMO-MCBS score based or verall survival for osimertinib compared to chemotherapy as the data were immoure.

Clinical Trials

5.4

Economic analysis

- The minor resubmission did not present any new clinical evidence. When the minor results and the minor results The economic model in the minor resubmission remained unchanged from the July 5.5
- 2018 resubmission. At its July 2018 consideration of osimertinib, the BAC had noted the resubmission's 5.6 economic model was based on data from the ARA3 trial, adjusted for crossover using RPSFT (Method A). The PBAC had noted that the base case incremental costeffectiveness ratio (ICER) presenter in the resubmission (\$45,000/QALY -\$75,000/QALY). After accounting for Asimertinib's co-dependency on the MBS listing of the EGFR T790M mutation listing the July 2018 commentary presented a base case of \$75,000/QALY - \$105,000/QALY (paragraph 7.9, osimertinib PSD, July 2018 PBAC meeting).
- The PBAC had also notice the ESC's advice that a multivariate sensitivity analysis 5.7 assuming (i) a 5-yea are horizon; (ii) no ongoing treatment effect and (iii) treatment until progression (se. taking into account the daily dose intensity and the ratio of timeon-treatment to PFS), and (iv) the overall survival (OS) hazard ratio (HR) generated by the rank-preserving structural failure time (RPSFT) (analysis, i.e. would $p_{\mathbf{x}}^{\mathbf{x}}$ would \mathbf{x} ide a more accurate estimate of the cost-effectiveness of osimertinib. The PBAC had further noted incorporating (i), (ii) and (iii), increased the ICER from \$75,000/QALY - \$105,000/QALY to \$105,000/QALY - \$200,000/QALY, and that the These documents Repart of changing the HR on the ICER could not be tested using the model provided **2**(paragraph 7.10, July 2018 osimertinib PSD).

The minor resubmission provided further details on the July 2018 pre-PBAC response RSA proposal from the sponsor (see Estimated PBS usage & financial implications for further details).

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² Cherny NI, Dafni U, Bogaerts J, et al: ESMO-Magnitude of Clinical Benefit Scale version 1.1. Annals of Oncology 28:2340-2366, 2017

5.9 The minor resubmission also clarified the changes to the ICER when , as per the proposed RSA.

Table 1. Summary of RSA impact on ICER

Table 1. Summary of RSR impact of relative			- ^`
Model Scenario	Pre- RSA ICER / QALY	RSA ICER / QALY	$ \sqrt{e^{o}} $
July 2018 submission base case	\$	\$, Y
June 2018 ESC multivariate ^a	\$	\$] Û
Commentary base case + 5-year time horizon	\$	\$	

Source: modified from Table 5 page 3, November 2018 minor resubmission

^a Commentary base case (\$ 2000 / QALY) plus (i) a 5-year time horizon; (ii) no ongoing treatment effect and (iii) treatment until progression (i.e. taky into account the daily dose intensity and the ratio of time-on-treatment to PFS)

The minor resubmission did not explore the impact of changing the OS HR () the ICER, 5.10 as per PBAC advice at its July 2018 consideration of osimertinit OThe minor resubmission argued that the multivariate analysis suggested by the ESC is not well supported by the evidence and represents a 'worse case' scenario that is highly unlikely to occur in practice, and when the various assumption by ESC were applied, the economic model generated a HR for OS of , i.e. worse than the ITT % crossov), which is heavily confounded by advised that this argument was not justified, as it was in appropriate to compare the modelled HR with the ITT HRs used within the trig period, given that the validity of the proportional hazard assumption beyond the trial period was unknown (paragraph 7.11, July 2018 PBAC PSD). As the model utives survival data for each arm, the HR is not an input parameter, and hence the impact of alternative HRs on the ICER cannot be easily determined. The PBAC note this point was reiterated in the pre-PBAC response for the minor resubmission

Estimated PBS usage & financial implications

- 5.11 The pre-PBAC response too simertinib's July 2018 resubmission included a proposal stating that any remaining concerns regarding the cost-effectiveness of osimertinib could be mitigated brough agreement.
- 5.12 The PBAC have advised that further information regarding the risk share agreement proposed in the pre-PBAC response would be required in the form of a minor resubmesion. The PBAC advised that the resubmission should address the estimated number of treated patients (noting that the patient numbers were revised in the pre-PBAC response) together with the estimated expenditure and financial caps in each of the first five years of listing, and these estimates should appropriately account for grandfathered patients. The PBAC had also advised that the risk share arrangement should incorporate a rebate % for expenditure above the agreed financial caps (paragraph 7.14, osimertinib PSD, July 2018 PBAC meeting).
 5.13 The minor resubmission advised that the resubmission of the present the present to the pres

5.13 The minor resubmission provided further details on the utilisation estimates and the proposed RSA and subsidisation caps.

5.14 The <u>major changes</u> in the minor resubmission were:

• The number of patients currently receiving treatment on the compassionate access program was updated with the latest figures (**Dec** patients).

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- The first full year of listing was updated to 2019. •
- The price was updated to reflect the % rebate on the published DPMQ

- 5.15 For the estimates, the resubmission was requested to:
- Line KSA (rather than the cost of packs). Line KSA (rather than the cost of packs). Line estimates, the resubmission was requested to: Account for PBAC's advice on the restriction limiting access to patients with pavino performance status of 2 or less; Justify why the number of grandfathered patients were changed for and Account for the amount of drug of paragraph 5.16)

 - •
- A comparison of the utilisation estimates, proposed RSA 5.16 and subsidisation caps between the July 2018 resubmission and the minor resubmission is presented in the table below.

Table 2: Comparison of the utilisation estimates, proposed RSA and supprison caps between the July 2018 resubmission and the minor resubmission

	Modelling parameter	July 2018 re-submission	November 2018 minor submission
	Parameter	e lla	
	Incidence of lung cancer	Incidence applied to ABS / Ustralian population projections, Ceries B. Incidence sourced AB AIHW cancer incidence projections, 2011-2020. From 2021-2023, the incidence was extrapolated by applying a flat % growth rate for calles and % for females each year. The growth rates were calculated to the last year of AIHW data as follows: 2020 incidence / 2019 incidence = % (males) and % (females).	Unchanged
	Proportion of incident lung cancer population that is NSCLC	64%, sourced from the AIHW Lung cancer in Australia report.	Unchanged
	Proportion of NSC population the Stage IIIb/IV	59%, sourced from the AIHW Lung cancer in Australia report.	Unchanged
	Proportion (TRES Stage IIIb/IV Proportion Stage IIIb/IV NSCLC expressing EGFR muttern Proportion treated with EGFR	15%, sourced from Peters et al 2014. ^a	Unchanged
	Reportion treated with EGFR	%, sourced from a commissioned IMS study	Unchanged
These doci	Proportion of patients suitable for biopsy after progression on EGFR TKI therapy	82%, sourced from Socinski et al. 2017.b	Unchanged
1 nes	Proportion of patients who are EGFR T790M positive	%, based on average reported mutation rate from clinical trial data. ^c	Unchanged
Ť	Number of patients grandfathered from	Estimated to be as at July 2018. Updated to in the Pre-PBAC response.	Unchanged from the pre-PBAC response.

Program Not included. Not included. WHO performance status of 2 or less. Not included. In the pre-PBAC response the sponsor agreed to the listing being restricted to patients with a WHO performance status of 2 or less. Treated population Pre-PBAC response increased the estimate of grandfathered patients from Unchanged Year 1 (2019): Less than 10,000 Vear 3 (2021): Year 5 (2023): Less than 10,000 Year 5 (2023): Less than 10,000	Modelling parameter	July 2018 re-submission	November 2018 minor submission
Duration of ostinet nind Impacts yeip patiently, used India the cost of the packs, the proposed included in the rapy in the AURA3 trial Importance of the packs, the proposed Included in the RSA. Effective price DPMQ \$ Unchanged Drug cost to PBS/RPBS, excl. Year 1 (2019): \$ Unchanged copayments (effective DPMO) Year 2 (2020): \$ Unchanged Year 3 (2021): \$ Year 5 (2023): \$ Unchanged Source from Pre-PBAC response, July 2018 To source from commissioned IMS Unchanged Source from Pre-PBAC response, July 2018 To be and the cost of the pack	Compassionate Access		
Duration of ostinet nind Impacts yeip patiently, used India the cost of the packs, the proposed included in the rapy in the AURA3 trial Importance of the packs, the proposed Included in the RSA. Effective price DPMQ \$ Unchanged Drug cost to PBS/RPBS, excl. Year 1 (2019): \$ Unchanged copayments (effective DPMO) Year 2 (2020): \$ Unchanged Year 3 (2021): \$ Year 5 (2023): \$ Unchanged Source from Pre-PBAC response, July 2018 To source from commissioned IMS Unchanged Source from Pre-PBAC response, July 2018 To be and the cost of the pack		Not included	Notincluded
Duration of ostinet nind Impacts yeip patiently, used India the cost of the packs, the proposed included in the rapy in the AURA3 trial Importance of the packs, the proposed Included in the RSA. Effective price DPMQ \$ Unchanged Drug cost to PBS/RPBS, excl. Year 1 (2019): \$ Unchanged copayments (effective DPMO) Year 2 (2020): \$ Unchanged Year 3 (2021): \$ Year 5 (2023): \$ Unchanged Source from Pre-PBAC response, July 2018 To source from commissioned IMS Unchanged Source from Pre-PBAC response, July 2018 To be and the cost of the pack	or less.		In the pre-PBAC response the sponsor
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Year 4 (2022) \$ Year 5 (2023) \$ Source from Pre-PBAC response, July 2014 Table 4.Assumed offsets for substituted Proportion of patients not suitable for third-line therapy (osimertinib substitutes for second-line chemotherapy)Unchanged.Patients suitable for third-line therapy (osimertinib substitutes nivolucab)#%, sourced from commissioned IMS report. Assumed #% of substituted chemotherapy contained pemetrexed based on IMS report.Unchanged.Patients suitable for third-line therapy (osimertic substitutes nivolucab)#%, sourced from commissioned IMS report.Unchanged.Patients suitable for third-line therapy (osimertic substitutes nivolucab)Assumed less use of palonosetron, an anti-nausea medication used with each administration of chemotherapy.Unchanged.Reduction in cost of substituted PBS/RPBS medicinesYear 1 (2019): \$ Year 3 (2021): \$ Year 4 (2022): \$ Year 5 (2023): \$ Sourced from Pre-PBAC response, JulyUnchanged.	treatment	on time on therapy in the AURA3 trial	Seatment cost is calculated based on the
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Modelling parameter	July 2018 re-submission	November 2018 minor submission	
Proposed expenditure caps	A to derive the expenditure caps. Year 1 (2019): \$ Year 2 (2020): \$ Year 3 (2021): \$ Year 4 (2022): \$ Year 5 (2023): \$ Sourced from Pre-PBAC response, July 2018, Table 4.	Expenditure caps are as per the July 2018 Pre-PBAC proposal. The sponsor has % rebate above the estimated cost to the PBS (p16 of the minor submission). This proposal is consistent with the PBAC (July 2018) recommendation that the risk share arrangement should incorporate a rebate % for expenditure above the agreed financial caps. However, applying the same subsidisation cap to grandfathered patients is not reasonable (see paragraph 5.16).	t of Health

Public Summary Document – November 2018 PBAC Meeting

^aPeters, M. J., J. J. Bowden, P. Carpenter, J. Lewis and B. Solomon (2014). "Outcomes of an Australian testing programme for epidermal growth factor receptor mutations in non-small cell lung cancer." Intern Med J 44(6): 575-580.

^bSocinski, M. A., L. C. Villaruz and J. Ross (2017). "Understanding Mechanisms of Resistance in the Epithelial Growth Factor Receptor in Non-Small Cell Lung Cancer and the Role of Biopsy at Progression." Oncologist 22(1): 3-11.

cCarter C and Giaccone G 2012; Sun, Ahn et al. 2013; Kuiper, Heideman et al. 2014.

dMitchell et al. Lung cancer in Victoria: are we making progress? MJA 199 (10) 18 November 2013

- 5.17 The estimates presented in the minor resubmission take into account offsets due to substitution of later-line therapies including nivolumab. The PBS listing of osimertinib may result in displacement, rather than replacement, of these later line therapies, resulting in an underestimation of the net cost of PBS/RPBS.
- 5.18 The estimates presented in the minor resubmission did not account for PBAC's advice on the restriction limiting access to patients with a WHO performance status of 2 or less (paragraph 7.2, osimertinib PSD, July 2018 PBAC meeting). According to sources previously accepted by the PBAC³, approximately 80% of Australian NSCLC patients have a WHO performance status of 2 or less (pembrolizumab PSD, March 2018 PBAC meeting). Accounting for this assumption resulted in a reduction of net PBS/RPBS expenditure (after offsets for substituted therapies) from \$10 - \$20 million to \$10 -\$20 million in the first year of listing, after accounting for grandfathered patients. The PBAC agreed with the argument in the pre-PBAC response that adjusting the estimated numbers to account for patients with a poor performance status will result in double counting as the estimates had been adjusted to account for patients unable to undergo an additional biopsy for T790M mutation testing due to poor health.
- 5.19 Although the resubmission appropriately applied a subsidisation cap in the financial estimates, this cap was similarly applied to the grandfathered patients as well, i.e. without offsetting for the treatment that these patients would have already undergone, prior to accessing PBS-subsidised therapy. As such, the These docu financial estimates need to be updated with a truncated cap for the grandfathered patients, to account for the average amount of drug that these patients have already received.
 - 5.20 The minor resubmission did not provide any justification for the increase in the

FOI 982

³ Mitchell et al. Lung cancer in Victoria: are we making progress? MJA 199 (10) 18 November 2013

number of grandfathered patients from . The Minor Overview noted that the usual practice adopted by the Department has been to subsidise the costs for all positive recommendation. Patients enrolled thereafter are eligible for PBS-subsidised access to therapy, but are not accounted for in any subsidisation caps. The pre-PBAC response noted the number of grandfathered patients was updated to reflect the current number of patients on treatment through the contract of patients of patients on treatment through the contract of patients of patients on treatment through the contract of patients on treatment through the contract of patien

5.21 The estimated net cost to the PBS/RPBS over the first five years of listing as proposed by the minor resubmission, and adjusted for patients with WHO performance status of 2 or less, is presented in the table below.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
As presented in the	esubmission (i.e. without acco	DUNTING FOR WHO	performance s	status)	
Eligible patients (including grandfathered patients)						
Total cost to PBS/RPBS	\$	\$	\$	\$	\$	\$
Total cost to PBS/RPBS (with subsidisation cap)	\$	\$	\$	\$	\$	\$
Total co-payment for osimertinib	\$	\$	\$	\$	\$	\$
NET cost to PBS/RPBS (with subsidisation cap)	\$	\$	\$	\$	\$	\$
Substituted therapies	\$	\$	\$	\$	\$	\$
Total NET cost to PBS/RPBS after offsets (with subsidisation cap)	\$	\$	\$	\$	\$	\$
NET cost to MBS	-\$	-\$	-\$	-\$	-\$	-\$
NET Cost health budget (with subsidisation cap)	\$	\$	\$	\$	\$	\$
Accounting for patie	nts with WHO p	performance sta	itus 2 or less			
Eligible patients with WHO PS 2 or less (including grandfathered patients)						
NET cost to PBS/RPBS (with subsidisation cap)	\$	\$	\$	\$	\$	\$
Total NET cost to PBS/RPBS after offsets (with subsidisation cap)	\$	\$	\$	\$	\$	\$
NET Cost health budget (with subsidisation cap)	\$	\$	\$	\$	\$	\$

Table 3. Estimated net cost to the PBS over the first five years of listing

6 PBAC outcome

- 6.1 The PBAC recommended the Section 85 Authority Required (written) listing of osimertinib and is satisfied that osimertinib provides, for some patients, a significant improvement in efficacy and a reduction in toxicity over platinum-based doublet chemotherapy. The PBAC's recommendation for listing was based on, among other matters, its assessment, as described above, that the cost-effectiveness of osimertinib would be acceptable at the capped cost per patient proposed in the minor resubmission.
- 6.2 The PBAC noted the strong support from consumers and the MOGA for osimertinib and considered there is an unmet clinical need for treatment options as patients with EGFR mutation positive NSCLC develop acquired resistance to first-line EGFR TKI therapy.
- 6.3 The PBAC recalled it deferred making a recommendation for osimertinib at its July 2018 meeting to request additional information from the sponsor regarding the proposed risk sharing arrangement and utilisation estimates. The PBAC also requested updated cost-effectiveness ratios for the July 2018 Commentary base case and the ESC multivariate sensitivity analysis, and the impact of changing the overall survival hazard ratio on the cost-effectiveness be explored.
- 6.4 The PBAC recalled at its July 2018 consideration that it advised that the criterion "Patients must have a WHO performance status of 2 or less" be added to the restriction. The PBAC noted that the sponsor agreed to this addition in their pre-PBAC response.
- 6.5 The PBAC noted the financial estimates presented in the minor resubmission were not reduced to specifically account for excluding patients with a poor performance status. The PBAC also noted the argument in the pre-PBAC response that further reduction of the patient estimates would double-count patients with a poor performance status as the estimates had been adjusted to account for patients unable to undergo an additional biopsy for T790M mutation testing due to poor health. The PBAC considered an additional reduction in patient numbers to specifically account for patients with a WHO performance status of 2 or less being excluded from the PBS listing was not required as this would result in double counting.
- 6.6 The PBAC noted the financial estimates in the minor resubmission were revised from that presented in the July 2018 submission to account for:
 - The number of patients currently receiving treatment on the compassionate access program (patients).
 - The first full year of listing being updated from 2018 to 2019.
 - The proposed % rebate on the published DPMQ.
 - The proposed
- 6.7 The PBAC also noted the sponsor agreed to % rebate for use above the proposed expenditure caps.



- 6.8 The PBAC noted the cost-effectiveness ratios presented in Table 1 of this Overview which incorporated the **sponsor's argument** in the minor resubmission and pre-PBAC response that the structure of the economic model is such that impact of changing the overall survival hazard ratio on the cost-effectiveness could not be reliably explored. The PBAC considered the multivariate sensitivity analyses presented in the minor resubmission adequately addressed the uncertainty with the cost-effectiveness estimates.
- 6.9 The PBAC considered the proposed RSA and expenditure caps with **2000**% rebate of any expenditure over the caps based on projected utilisation were appropriate, and adequately addressed its previous concerns regarding the utilisation and cost-effectiveness of osimertinib.
- 6.10 The PBAC noted the subsidisation cap **and the subsidisation** was applied to the grandfathered patients without offsetting for the treatment that these patients would have already received prior to accessing PBS-subsidised therapy. The PBAC considered the financial estimates and subsequent caps should be updated and reduced to account for the amount of drug that the grandfathered patients have already received.
- 6.11 The PBAC recommended that the Early Supply Rule should not apply.
- 6.12 The PBAC advised that osimertinib is not suitable for prescribing by nurse practitioners.
- 6.13 The PBAC noted that this submission is not eligible for an Independent Review as it received a positive recommendation.

Outcome:

Recommended



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7 Recommended listing

7.1 Add new item:

Name, Restriction, Manner of administration and form	Max. Qty	№.of Rpts	Proprietary Name a	nd Manufacturer
OSIMERTINIB 80 mg tablet, 30	1	5	Tagrisso®	AstraZeneca 🗸 🛇 Pty Ltd

Category / Program	GENERAL – General Schedule (Code GE)
Prescriber type:	Dental Medical Practitioners Nurse practitioners Optometrists Midwives
Severity:	Locally advanced (Stage IIIB) or metastatic (Stage IV)
Condition:	Non-small cell lung cancer (NSCLC)
PBS Indication:	Locally advanced (Stage IIIB) or metastatic (Stage IV) non-small cell lung cancer
Treatment phase:	Initial treatment
Restriction Level /	Restricted benefit
Method:	Authority Required - In Writing
	Authority Required - Telephone
	Authority Required - Emergency
	Authority Required - Electronic
	Streamlined
Clinical criteria:	The treatment must be the sole PBS-subsidised therapy for this condition,
	AND
	Patient must have a WHO performance status of 2 or less,
	AND
	Patient must have progressive disease following treatment with an epidermal growth factor
	receptor (EGFR) tyrosine kinase inhibitor (TKI).
Population criteria:	Patient must have evidence of a T790M mutation of the EGFR gene in tumour tissue material
	following progression on or after an EGFR TKI.
Administrative Advice	No increase in the maximum quantity or number of units may be authorised.
	No increase in the maximum number of repeats may be authorised.
	Special Pricing Arrangements apply.

These docu

Ú,

Name, Restriction, Manner of administration and form	Max. Oty	№.of Rpts	Proprietary Manufa		
Osimertinib 40 mg tablet, 30	1	5	Tagrisso®	AstraZeneca Pty Ltd	Health
80 mg tablet, 30	1	5		×	, Y` 5`

Category / Program	GENERAL – General Schedule (Code GE)
Prescriber type:	Dental Medical Practitioners Nurse practitioners Optometrists Midwives
Severity:	Locally advanced (Stage IIIB) or metastatic (Stage IV)
Condition:	Non-small cell lung cancer (NSCLC)
PBS Indication:	Locally advanced (Stage IIIB) or metastatic (Stage IV) non-small cell lung cancer
Treatment phase:	Continuing treatment
Restriction Level / Method:	Restricted benefit Authority Required - In Writing Authority Required - Telephone Authority Required - Emergency Authority Required - Electronic Streamlined
Clinical criteria:	The treatment must be as the sole PBS-subsidised therapy for this condition, AND Patient must have previously received PBS-subsidised treatment with this drug for this condition, AND Patient must not have progressive disease following PBS-subsidised treatment with this drug for this condition.
Administrative Advice	No increase in the maximum quantity or number of units may be authorised. No increase in the maximum number of repeats may be authorised. Special Pricing Arrangements apply.

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Name, Restriction, Manner of administration and form	Max. Qty	№.of Rpts	Proprietary Name and Manufacturer		
OSIMERTINIB 40 mg tablet, 30	1	5	Tagrisso®	AstraZeneca Pty Ltd	+ Health
80 mg tablet, 30	1	5		×	ot V

Category / Program	GENERAL – General Schedule (Code GE)				
Prescriber type:	Dental Medical Practitioners Nurse practitioners Optometrists Midwives				
Severity:	Locally advanced (Stage IIIB) or metastatic (Stage IV)				
Condition:	Non-small cell lung cancer (NSCLC)				
PBS Indication:	Locally advanced (Stage IIIB) or metastatic (Stage IV) non-small cell lung cancer				
Treatment phase:	Grandfathering treatment				
Restriction Level /	Restricted benefit				
Method:	🖾 Authority Required - In Writing				
	Authority Required - Telephone				
	Authority Required - Emergency				
	Authority Required - Electronic				
Clinical criteria:	Patient must have previously received non-PBS subsidised treatment with this drug for this				
	condition prior to [listing date],				
	AND				
	The treatment must be as-the sole PBS-subsidised therapy for this condition,				
	AND Detient must have progressive diseases following tractment with an enidermal growth factor				
	Patient must have progressive disease following treatment with an epidermal growth factor receptor (EGFR) tyrosine kinase inhibitor (TKI).				
	AND				
	Patient must not have progressive disease following treatment with this drug for this condition.				
Population criteria:	Patient must have evidence of a T790M mutation of the EGFR gene in tumour tissue material				
r opulation cirtona.	following progression on or after an EGFR TKI.				
Prescribing Instructions	A patient may qualify for PBS-subsidised treatment under this restriction once only.				
Administrative Advice	No increase in the maximum quantity or number of units may be authorised.				
	No increase in the maximum number of repeats may be authorised.				
	Special Pricing Arrangements apply.				

8 Context for Decision

The PBAC helps decide whether and, if so, how medicines should be subsidised in Australia. It considers submissions in this context. A PBAC decision not to recommend listing or not to recommend changing a listing does not represent a final PBAC view about the merits of the medicine. A company can resubmit to the PBAC or seek independent review of the PBAC decision.



Sponsor's Comment

The sponsor had no comment.