Funding Medicines in New Zealand: Revision of the Medicines Waiting List

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Executive Summary

Earlier this year, Medicines New Zealand commissioned a paper showing that in December 2015, 81 medicines were awaiting decisions for funding and a Pharmaceutical Schedule listing by the Pharmaceutical Management Authority (PHARMAC) following positive recommendation from the Pharmacology and Therapeutics Advisory Committee (PTAC)¹.

This update shows that, 7 months later (by 31 July 2016) there were 91 medicines for 98 therapeutic indications awaiting listing on the Pharmaceutical Schedule after receiving positive PTAC recommendations. Delays to listing of these medicines range between 0.17 years and 10.25 years, and there is one medicine that is known to remain unfunded after more than 12 years.

This increase in numbers of unfunded medicines follows a significant budget increase of \$39 million over 2016/17, which enabled funding of some new treatments for melanoma and hepatitis C. It would appear that, despite significant increases in funding for pharmaceuticals, the financial limitations of a capped medicines budget means that a range of medicines for patients with a variety of important diseases in New Zealand including cancer and diabetes must remain unfunded. PHARMAC has neither consulted on nor sought a Board decision for any of these products.

PHARMAC has recently (31 August 2016) amended the pictorial presentation of "How Medicines Are Funded" on its website to better reflect the prioritisation process it uses to "rank" applications following a PTAC recommendation. However, that process does not:

- show any specific process for applications PTAC has recommended for decline,
- give any indication of where the public might find information about its "high" and "low" ranked products (note PHARMAC's application tracker simply states "ranked" if this process is complete); or
- provide any way for the public to ascertain whether applications remain unfunded due to limitation in the Pharmaceutical Budget or whether PHARMAC does not regard them as worthy investments (although it does not explicitly indicate that no Board decision may be taken for those ranked as "low" priorities).

We argue that completion of the PHARMAC decision-making process for all applications would be in the interests of public good and transparency.

Limitations of the Current Study

¹ In New Zealand, the Pharmaceutical Management Agency (PHARMAC) decides which medicines will receive public funding, following advice from the Pharmacology and Therapeutics Advisory Committee (PTAC).

Given the stated timeframe of investigation ending on 31 July 2016, it is possible that medicines on the waiting list may have been funded after both PHARMAC Board and PTAC meetings after that date. There may also be some medicines for therapeutic indications that have been waiting before 2006.

Background

The Pharmacology and Therapeutics Advisory Committee (PTAC) is the primary expert clinical committee that reviews the clinical evidence around funding applications, and taking into account PHARMAC's nine decision criteria², makes recommendations to PHARMAC on which medicines to fund, and with what priority.

PHARMAC requires applicants to provide a health technology assessment (usually Cost Effectiveness Analyses) in their applications for funding. It also frequently performs a preliminary Health Assessment Reports (HAR) comparing the medicines in an application with a funded alternative. Both the application and PHARMAC's HAR are provided to PTAC to inform their decisions.

PTAC's recommendation, and a final HAR are then reviewed by PHARMAC staff, and an internal priority list of medicines is generated from which potential investment options are then chosen. This priority list is not published. It appears that PHARMAC then holds commercial negotiations with some applicants and, if an agreeable provisional contractual outcome can be reached, this is consulted and ultimately submitted to the PHARMAC Board for a final investment decision. Despite the expert status of PTAC, PHARMAC is not bound to accept its advice or follow its recommendations, and PHARMAC may attach a different listing priority to a medicine, make a decision that differs from PTAC's recommendation or, in many cases, make no decision at all.

While PHARMAC's Board minutes relating to funding decisions are not publicly available making any direct comparison between PTAC's recommendations and PHARMAC Board decisions impossible, , it is clear that not all products that have been recommended for funding by PTAC are the subject of a full decision-making process by the PHARMAC Board. Evidence of this can be found by cross checking published PTAC recommendations against Pharmaceutical Schedule listings, and also by referring to the "Application Tracker" on PHARMAC's website which lists a number of applications as "ranked" or "under assessment".

The intent of this report and analysis is to update the list of PTAC recommendations for new listings and recommendations for widened access to medicines that are already listed from that published earlier this year, to calculate how long patients have been waiting for these medicines, and to calculate how long the groups of medicines in each priority category (as allocated by PTAC) have been awaiting funding. This enables an expanded and accurate estimate of the list of medicines that have received a positive recommendation for funding by PTAC, but are yet to be funded.

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² PHARMAC's nine decision criteria are to be replaced by 12 Factors for Consideration in mid-2016.

Method

Minutes from quarterly PTAC meetings were assessed from February 2006 (the first year that these were reliably published online) to July 2016. Generation of a tabulated list of therapeutic agents, including vaccines (the latter of which came under PHARMAC responsibility from 2013 onwards) was then undertaken using the following metrics:

- PTAC meeting date for first positive recommendation
- Intended Indication/indications
- PTAC first recommendation (decline, list, referral to subcommittee etc.) and priority status (positive recommendations only and any changes in priority status).

PTAC's recommendations were reviewed from publicly available minutes (those published on the PHARMAC Website as of July 2016) and these were compared with the list of medicines (including vaccines) funded by PHARMAC as published in its Pharmaceutical Schedule (including more recently, the Hospital Medicines List (HML)) – again as at July 2016.

We have included PTAC recommendations for widened access to medicines that already have a listing on the Pharmaceutical Schedule (i.e. to fund medicines with less restrictive special authority criteria, for wider population coverage or new indications).

Results

Minutes for over 400 individual therapeutic agents/medicines or indications were considered in the quarterly meetings of PTAC from February 2006 through to July 2016. Of those around 60% were given a positive recommendation from PTAC (to list on the HML or Pharmaceutical Schedule with a positive priority (usually a high, medium, moderate, or low priority) or only if costneutral).

However, 118 (around half) of those positive recommendations were still awaiting a final PHARMAC funding decision on inclusion in the Pharmaceutical Schedule as at July 2016 (See Table 1).

The longest waiting time for a medicine was 10.25 years for telmisartan (although adrenalin auto injector for anaphylaxis which first received a medium priority in November 2005 but remains unfunded in fact has the longest known waiting time of more than 12 years). The second longest waiting period was 9.75 years for fluvestrant for post-menopausal locally advanced or metastatic breast cancer. The shortest waiting time is 0.17 years to fund for nivolumab (non-small cell lung cancer), PAH treatments including selexipag, taurolidine and citrate solution, denosumab and saproterin.

Table 1. The positive recommendations of PTAC since 2006 that have yet to be listed on the New Zealand Pharmaceutical Schedule as of 31 July 2016

Product Indication		New listing or wider access	Date of Positive Rec	Date of Positive Recomm endation	Waitin g Period (Years)
	GREATER THAN 5 YEARS WAIT				
				Only if cost-	
Telmisartan	Hypertension	New	May-06	neutral	10.25
Fluvestrant	Locally advanced Fluvestrant metastatic breast cancer		Nov-06	Low	9.75
Desogestrel	Contraception	New	Aug-07	Low	9.00
Dornase Alfa	Cystic fibrosis under 6 years	Widen Access	Feb-16	Medium	9.00
Ketotifen fumarate	Occular allergy	New	May-08	Only if cost-neutral	8.25
Oxybutinin patches	Urinary incontinence	New	Jul-08	Low	8.08
Pemetrexed	First line treatment of non- squamous non-small cell lung carcinoma	New	Jul-08	Only if cost-neutral	8.08
Bimatoprost and timolol Eye Drops	Glaucoma	New	Feb-09	Only if cost-neutral	7.50
Rosuvastatin	3rd line hypercholesterolemia New		Feb-09	Medium	7.50
Travoprost and timolol Eye Drops	Glaucoma	New	Feb-09	Only if cost-neutral	7.50
Buprenorphine transdermal patch	Moderate to severe pain	New	May-09	Low	7.25
Duloxetine hydrochloride	Treatment of major depressive disorder that is not responsive to other antidepressants	New	Jul-09	Only if cost-neutral	7.08
Sitaglipten	Type 2 diabetes	New	Aug-09	Low	7.00
Bevacizumab	Metastatic Colorectal Cancer	New	Feb-10	Low	6.50

	Second-line TNF-inhibitor				
	treatment of rheumatoid				
Golimumab	arthritis, psoriatic arthritis,	Now	Mov. 10	Low	6.05
Goilmumab	and ankylosing spondylitis Relapsed or refractory	New	May-10	Low	6.25
	mantle cell lymphoma				
	(MCL) that has progressed				
	within 24 months of				
	allograft or chemotherapy				
Ibrutinib	or chemo-immunotherapy	New	Nov-15	Low	6.25
	Treatment for helicobacter				
Levofloxacin	infection	New	May-10	Other	6.25
		Widen			
Methoxyflurane	PSO	Access	Feb-16	Low	6.25
Material				Only if	
Metronidazole vaginal	Verinal infections	Nam	Mov. 10	cost-	C 05
gel	Vaginal infections	New	May-10	neutral	6.25
		Widen			
Sildenafil	Fontan patients	access	May-10	High	6.25
- Cilidorialii	- Ontain patients	400000	may 10	1 11911	0.20
	Neonatal/infantile PAH	Widen			
Sildenafil	secondary to CLD	access	May-10	Medium	6.25
Quetiapine modified-	Schizophrenia and other				
release tablets	psychoses	New	Jun-10	Low	6.17
	Polycythemia rubra vera				
D'a da a a a a	and essential	N	A . 40	NA - P	0.00
Pipobroman	thrombocythemia	New	Aug-10	Medium	6.08
	Iron Overload secondary to	Widen			
Deferiprone	acquired anaemia	access	Nov-10	Medium	5.75
Belefipione		400000	1107 10	Wicalam	0.70
	Mild to moderate Type 1				
Miglustat	Gaucher's disease	New	Nov-10	Low	5.75
				Only if	
				cost-	
Nab-paclitaxel	Advanced breast cancer	New	Nov-10	neutral	5.75
		Ī —			
	HER2 positive metastatic	Widen			
Trastuzumab	gastric cancer	access	Feb-11	Low	5.50
	O E VEADO MAIT				
	3-5 YEARS WAIT				
Cevimeline	Dry Mouth	New	Aug-11	Low	5.00
	,	-		-	
Pregabalin	Neuropathic pain	New	Aug-11	Low	5.00

Rotavirus vaccine	Universal childhood vaccine	New	Aug-13	Medium	3.00
Nab-paclitaxel	Metastatic breast cancer	New	Aug-13	Low	3.00
Rilpivirine	HIV	New	Feb-13	cost	3.50
Carbetocin	following elective caesarean	New	Feb-13	cost neutral Only if	3.50
	Uterine atony and excessive bleeding			Only if	
Sildenafil	Cardiac Surgery	Widen access	Nov-12	Hosp only	3.75
Melatonin	Psychiatric comorbidities and secondary insomnia associated with dementia	New	Nov-12	Low	3.75
Tocilizumab	Rheumatoid arthritis	Widen Access	Nov-15	Only if cost neutral	4.00
TNF Inhibitors	Behçet's Disease	Widen access	Aug-12	Medium	4.00
Telaprevir	Genotype 1 chronic hepatitis C	New	Aug-12	High	4.00
Liraglutide Type 2 diabetes.		New	Aug-12	Low	4.00
Linagliptin Type 2 diabetes.		New	Aug-12	Low	4.00
Asenapine	Schizophrenia and Bipolar 1 Disorder	New	Aug-12	Only if cost neutral	4.00
Eplerenone	Heart failure patients intolerant to optimal dosing of spironolactone	New	Nov-15	Low	4.50
Dutasteride	Dutasteride BPH		Feb-12	Only if cost-neutral	4.50
Saxagliptin	Type II diabetes	New	Nov-11	Low	4.75
Ustekinumab	Psoriasis	New	Aug-11	Only if cost neutral	5.00
Rituximab	follicular non-Hodgkins lymphoma	Widen access	Aug-11	Low	5.00
	Relapsed/Refractory				

	Admin to pregnant women			Only if	
	for prophylaxis of rickets in			cost	
Vitamin D	infants at high risk	New	Aug-13	neutral	3.00
	Ŭ			Only if	
	Admin to infants at high			cost	
Vitamin D	risk of rickets	New	Aug-13	neutral	3.00
Vitariii 2	THERE OF THERE OF	11011	7109 10	Hodirai	0.00
	Treatment of infants with				
Vitamin D	rickets	New	Aug-13	Low	3.00
			1119		0.00
	1-3 YEARS WAIT				
	Weekly dose rescue				
	therapy for Crohn's	Widen			
Adalimumab	Disease	Access	Nov-13	Low	2.75
/ tadiii iaii	Discuso	7100000	1407 10	LOW	2.70
Ciprofloxacin eye	Chronic suppurative otitis	Widen			
drops	media	access	Nov-13	High	2.75
агоро	media	400033	1407 10	riigii	2.70
Dapaglifozin	Type 2 diabetes	New	Nov-13	Low	2.75
Dapaginozin	Secondary insomnia in	11011	1101 10	2011	
	children and adolescents				
	with neurodevelopmental				
Melatonin	or psychiatric comorbidities	New	Feb-14	Low	2.58
Wiciatoriiri	Previously experienced	INCW	1 00 14	Only if	2.50
	hypersensitivity reactions			cost	
Nab-Paclitaxel	to paclitaxel or docetaxel	New	Feb-14	neutral	2.58
IVAD-F ACIICAXEI	First line patients with	INEW	160-14	Heutiai	2.30
	HER-2-positive metastatic				
	breast cancer in combo				
	with trastuzumab and				
Pertuzumab	docetaxel	New	Feb-14	Low	2.58
renuzumas		INEW	Feb-14	LOW	2.50
	Inflammatory bowel	Widen			
TNF alpha inhibitors	disease associated arthritis (IBD-A)		Feb-14	Low	2.58
TIVE alpha illilibitois	artifitis (IBD-A)	Access	Feb-14	Low	2.50
		Widen			
Acitretin	Relax SA	Access	May-14	None	2.25
Acitietiii	Patients that have	Access	Iviay-14	INOTIE	2.25
Adrenlaline auto					
	experienced anaphylactic reaction to venom or food	New	Mov 14	Medium	2.25
injector		new	May-14	Only if	2.20
	Prophylaxis of venous			-	
Anivohon	thromboembolism following	Now	Mov. 1.4	cost	2.25
Apixaban	major orthopaedic surgery	New	May-14	neutral	2.25
	Stroke provention in non				
Anivahan	Stroke prevention in non- valvular atrial fibrillation	Now	May 44	Low	2.25
Apixaban	vaivuiai atiiai iibiiliation	New	May-14	Low	2.25
Ariniprozola danat				Only if	
Aripiprazole depot	Sobizophronic	Nove	Nov 45	cost	2.05
injection	Schizophrenia	New	Nov-15	neutral	2.25

		Widen			
Gabapentin	Remove SA	Access	May-14	None	2.25
Intracavernosal	Erectile dysfunction related				
alprostadil	to spinal cord injury	New	May-14	Medium	2.25
	Previously treated and				
	unresectable stage III or IV				
Ipilibumab	melanoma	New	Feb-16	Low	2.25
		l			
		Widen	1		
Isotretinoin	Relax SA	Access	May-14	None	2.25
	A divide a with Trans II				
Lixisenatide	Adults with Type II diabetes	Now	Mov. 14	Low	2.25
Lixiserialide	diabetes	New	May-14	Low	2.25
		Widen			
Midodrine	Relax SA	Access	May-14	None	2.25
Midodiffie	Neiax SA	Access	Iviay-14	INOTIE	2.23
		Widen			
Minoxidil	Remove SA	Access	May-14	None	2.25
Phosphodieraterase V	Tromovo ex	7100000	IVIQY 1 1	140110	2.20
inhibitors (PDE5	Erectile dysfunction related				
inhibitors	to spinal cord injury	New	May-14	Medium	2.25
	le opinial cord injury		1	Only if	
				cost	
Rivaroxaban	Venous thromboembolism	New	May-14	neutral	2.25
				Only if	
	Secondary prohylaxis of			cost	
Rivaroxaban	venous thromboembolism	New	May-14	neutral	2.25
				Only if	
	Stroke prevention in non-			cost	
Rivaroxaban	valvular atrial fibrillation	New	May-14	neutral	2.25
				Only if	
				cost	
Stribild	HIV-1	New	May-14	neutral	2.25
				Only if	
				cost	
COX-2 inhibitors	Arthritis	New	Aug-14	neutral	2.00
				Only if	
Ingenol mebutate	Facial and scalp solar			cost	
0.015%	keratosis	New	Aug-14	neutral	2.00
				Only if	
Nicotine inhaler and				cost	
oral spray	Smoking cessation	New	Aug-14	neutral	2.00
				Only if	
Nicotine replacement			_	cost	_
therapy sample packs	Smoking cessation	New	Aug-14	neutral	2.00
Onforth 1		Na	A . 4.4	Law	0.00
Sofosbuvir	Hep C - all	New	Aug-14	Low	2.00

Aminolevulinic acid	Visulisation of glioma	New	Nov-14	High	1.75
Epoprostenol	PAH	New	Nov-14	High	1.75
Ероргозісної	1 Att	INCW	1407 14	Only if	1.70
Rotigotine				cost	
transdermal patch	Parkinsons disease	New	Nov-14	neutral	1.75
Sub-cutaneous	HER 2 positive breast			Only if cost	
trastuzumab	cancer	New	Nov-14	neutral	1.75
	First line treatment of				
	Chronic Lymphocytic				
Obinutuzumab	Leukaemia	New	Feb-15	Medium	1.42
	Chronic sponteneous	Widen			
Omalizumab	urticaria	Access	Nov-15	Low	1.42
	Undifferentiated	Widen			4 40
TNF alpha inhibitors	spondyloarthritis	Access	Feb-15	High	1.42
Denosumab	Osteoporosis	New	May-15	Medium	1.17
Indacterol					
maleate/glycopyrroniu	Chronic obstructive	Naw	Mov. 45	Law	4 4 7
m	pulmonary disease	New	May-15	Low	1.17
	Pulmonary arterial				
Macitentan	hypertension	New	May-15	Low	1.17
	Metastatia HED2 positivo				
Pertuzumab	Metastatic HER2 positive breast cancer	New	May-15	Low	1.17
1 Ortazamas	Drodet daniest	11011	may 10	2011	
	Stem cell mobilisation -				
Plerixafor	HML	New	May-15	High	1.17
	Relapsed or refractory				
Pomalidomide	multiple myeloma	New	Feb-16	Low	1.17
Sofosbuvir with	Hepatitis C - all other sub-	No	N4 - 45	1	4 4-
ledipasvir	populations	New	May-15	Low	1.17
Topical NSAID	Osteoarthritis	New	May-15	Low	1.17
				Only if	
Ustekinumab	Severe chronic plaque	Now	Mov 15	cost	1.17
OSIGKIIIMIIIAD	psoriasis Smoking cessation -	New	May-15	neutral	1.17
	reduce re-treatment	Widen			
Varenicline	interval	Access	Feb-16	Low	1.17

	LESS THAN 1 YEARS				
	WAIT				
	Chronic Lymphocytic				
	Leukaemia Non-Hodgkin's				
	Lymphoma - unable to				
	tolerate fludarabine,				
	cyclophosphamide and				
Bendamustine	rituximab (FCR)	New	Aug-15	Medium	0.92
	Chronic Lymphocytic				
	Leukaemia Non-Hodgkin's				
Bendamustine	Lymphoma - first line	New	Aug-15	Low	0.92
	First line treatment of				
Davasiavasah	recurrent, persistent or	New	A 4.5	Law	0.00
Bevacizumab	metastatic cervical cancer	New	Aug-15	Low	0.92
	Type I diabetes in				
Insulin Pumps	Pregnancy	New	Aug-15	Low	0.92
Lidocaine 4% with	Togriding	11011	7.09 10	2011	0.02
Adrenlaline 0.1% and					
tetracaine 0.5%	Wound repair - children	New	Aug-15	Medium	0.92
Lidocaine 4% with					
Adrenlaline 0.1% and					
tetracaine 0.5%	Wound repair - unrestricted	New	Aug-15	Low	0.92
	Advanced non-squamous				
	non-small cell lung				
Pemetrexed	carcinoma - maintenance	New	Aug-15	Low	0.92
	Advanced non-squamous			Only if	
D (I	non-small cell lung	NI.	A . 45	cost	0.00
Pemetrexed	carcinoma - second line	New	Aug-15	neutral	0.92
	Resistant nephrotic	Widen			
Rituximab	syndrome	Access	Aug-15	Medium	0.92
Tittaminab	- cynareme	7.00000	7.09.10	Modium	0.02
Sodium chloride					
prefilled syringe	Sterile procedures	New	Aug-15	High	0.92
Subcutaneous	Adult rheumatoid arthritis -				
tocilizumab	last line	New	Aug-15	Low	0.92
	Debreuden ber 1				
Toloilizumoh	Polyarticular juvenile	New	Λυα 4 <i>5</i>	Modium	0.00
Tolcilizumab	idiopathic arthritis	INEW	Aug-15	Medium	0.92
Zoster vaccine	65 years and older	New	Aug-15	Medium	0.92
	People aged 65 with a 2	-			
	year catch up (65-80				
Zoster vaccine	years)	New	Feb-16	Low	0.92
Idarucizumab	Dabigatran reversal	New	Nov-15	Medium	0.42

	Smoking cessation - 2			Only if	
	week starter and follow-on	Widen		cost	
Varenicline	packs	Access	Feb-16	neutral	0.42
	Locally advanced or	7.0000	1 02 10		0
	metastatic non-small cell	Widen			
Nivolumab	lung cancer	Access	May-16	Low	0.17
	Dual Therapy for patients				
	with PAH in NYHA/WHO				
	functional class III and IV				
	following 3-6 month	Widen			
PAH treatments	monotherapy with sildenafil	Access	May-16	High	0.17
	Dual Therapy for patients			_	
	with PAH in NYHA/WHO	Widen			
PAH treatments	functional classes II	Access	May-16	Low	0.17
	Metastatic or unresectable				
Pembrolizumab	melanoma stage III or IV	New	Nov-15	Low	0.17
	Phenylkenouria and				
	hyperphenylalaninaemia				
	for women pregnant or				
Sapropterin	planning a pregnancy	New	May-16	High	0.17
	Pulmonary Arterial	1			o
Selexipag	Hypertension	New	May-16	Low	0.17
	Section H - locking of				
	central venous access				
	devices in those at high				
	risk of developing central				
Taurolidine and citrate	line-associated				
solution bacteraemia		New	May-16	OICN	0.17

From a summary of the PTAC priority categories (Table 2), there appears to be a reasonable level of correlation between the priority of the PTAC recommendation and the length of waiting times (i.e. mean waiting time for high priority medicines seems to be lower than that for medium and low).

Table 2. Waiting times by priority category to July 2016

PTAC priority category	Number of recommendations	New Listings	Widened access	Mean waiting time (years)	Range of waiting times
High	10	6	4	2.03	0.17-6.25
Medium	18	13	5	3.11	0.42-9.00
Low	50	41	9	3.29	0.17-9.75
Only If Cost Neutral	33	31	2	3.68	0.17-10.25
None/Other	7	1	6	3.04	2.25-6.25
TOTAL	118	92	26	3.25	0.17 -10.25

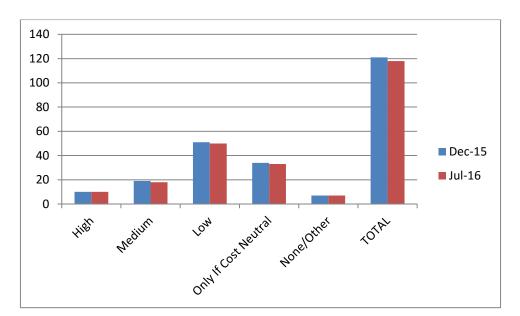
The mean waiting times for all medicines on this list has increased from that in December 2015 to 3.25 years, with the same significant range in waiting times (0.17 to 10.25 years). Most interestingly, the majority (78%) of the outstanding recommendations appear to be for new listings (i.e. recommendations for a range of new medicines rather than widened access to existing funded medicines).

Table 3. Change in Mean Waiting Time and Range of Waiting Time

PTAC priority category	Mean waiting time (years) Dec 2015	Mean waiting time (years) Jul 2016	Range of waiting times to Dec 2015	Range of waiting times to Jul 16
High	2.03	2.03	0.17-6.25	0.17-6.25
Medium	2.50	3.11	0.17-7.5	0.42-9.00
Low	2.89	3.29	0.17-9.75	0.17-9.75
Only If Cost Neutral	3.45	3.68	0.17-10.25	0.17-10.25
None/Other	3.04	3.04	2.25-6.25	2.25-6.25
TOTAL	2.78	3.25	0.17 -10.25	0.17 -10.25

Discussion

The last 6 months, and the Governments' recent \$39 injection into PHARMAC's annual budget, have seen a slight reduction in the number of pharmaceuticals waiting to be listed on the Pharmaceutical Schedule (see **Graph 1**).



Graph 1. Change in waiting times by priority category July 2016 compared to December 2015

However, the overall increase in the number of unfunded pharmaceuticals that have received a positive recommendation from PTAC, and with overall waiting times growing despite significant additional investment, it is clear that some further action is required. We suggest that it is time PHARMAC reduced the list of potential investments by completing the decision-making process for those pharmaceuticals on the list that it has no intention of funding. Some of those recommendations date back 10 years or more. Almost half of them have been on the list for 3 years or more.

It is clear that, over time PHARMAC changed its original policy and practice of processing all applications to a decision by the PHARMAC Board. The diagram of the Decision Making Process available on PHARMAC's website, which until recently remained largely unchanged since PHARMAC's inception in 1993, indicated that *all* applications to list pharmaceuticals in the Pharmaceutical Schedule, once reviewed by PTAC, then undergo a process of prioritisation, negotiation with the supplier, consultation and a Board Decision. The diagram did not indicate that this process is followed only for those pharmaceuticals that ultimately gain a listing. However, that is predominantly the case nowadays. PHARMAC recently (31 August 2016) replaced that diagram with a pictorial presentation showing more clearly how it prioritises applications. However, it is not clear whether it prioritises those application PTAC recommends to decline and clearly shows that those assigned a "low" ranking (as opposed to PTAC recommendation) may still simply be left unresolved.

Data presented in PHARMAC's Annual Reviews until 2003 suggest that the full processing of all applications to a Board decision was once followed. Until then, PHARMAC published a list of "Applications Declined by the PHARMAC Board". These tables also provided a reconciliation of applications received, listed and declined and reported the percentage "success" rate. It should be noted that in 1994 and 1995, twenty (20) applications were considered and declined by the

PHARMAC Board.³ Those numbers were down to between two and four per year by the year 2000⁴. Annual Reviews since 2004 have omitted to publish this information.

Indeed, since 2003, PHARMAC has consulted on just a few proposals to decline to list pharmaceuticals on the Pharmaceutical Schedule – e.g. acetylcholinesterase inhibitors (2003), trastuzumab (2008), budesonide capsules, memantine (2010) and eculizumab (2013). The rest of the applications received, reviewed and given a positive recommendation by PTAC now remain unresolved.

Are we really to believe that the single or biggest factor holding back funded access to these drugs is lack of money? Or are there among them, a number of products that PHARMAC has no intention of funding for other reasons? If so, surely consulting on declining these applications and taking them to the PHARMAC Board for a decision would result in greater transparency around all applications, in particular those that PHARMAC considered to be priority for funding, and around any remaining funding shortfalls.

³ "Applications considered and decided" table Page 17, Annual Review, 1996

⁴ Applications declined by the PHARMAC Board" table Page 26, Annual Review, 2003