

**From:** [REDACTED] <[REDACTED]>  
**Sent:** Tuesday, 12 February 2019 7:55 AM  
**To:** Brian Roulston  
**Subject:** Important Please: Nardil (phenelzine sulfate 15mg) recall and immediate OOS situation  
**Attachments:** Nardil Agreement Pharmac Link - 2006-08-14 (002).pdf

Dear Brian

We are working with MedSafe to announce a pending recall for Nardil to the pharmacy level (at this stage). We expect that the letter of notification will go to all retail pharmacies, hospital pharmacies and wholesalers. We expect that MedSafe will approve the letter within the next 24-48 hours. The recall is due to stability issues and all the batches of stock, 3 months supply, in our Auckland warehouse have been impacted and are placed into quarantine

We had other batches, not impacted in Australia awaiting over labelling to be sent to NZ and would usually have had this as a back up to dispatch. However, the Wesley site that carries out the labelling sustained some damage in the storm on Friday night. The site has had to be closed while they figure out how to get it up again. I understand that the Nardil stock is safe, but they don't know at this stage when they can finish relabelling. We are awaiting news and will advise you asap.

In addition, we are looking for alternative supply as a back up and should have some information on possibility two options today or tomorrow.

Nardil (Phenelzine sulfate 15mg) tablets are an antidepressant [monoamine oxidase inhibitor (MAOI)] indicated for the treatment of major depression as per the Data Sheet <https://medsafe.govt.nz/profs/Datasheet/n/nardiltab.pdf>. The position in therapy of this medication is reserved for patients that have failed to respond to other treatment modalities for depression, and is not recommended as a first line therapy. So many patients taking this medication are nearing end of therapy options

As you can read we are still awaiting some information but I wanted to be transparent and advise you as soon as possible. I have attached the PHARMAC-LHC Agreement with respect to Nardil for your convenience.

Please do not hesitate to call me and I'll be in touch via email as soon as I receive more information on the supply

Kind Regards

[REDACTED]

[REDACTED]  
Manager New Zealand (FACBS, MSc, BSc)

Link (A Clinigen Company)

[REDACTED] | m [REDACTED]

e. [REDACTED]

w. [www.clinigengroup.com](http://www.clinigengroup.com)



**From:** [REDACTED]  
**Sent:** Wednesday, 20 February 2019 9:34 AM  
**To:** Brian Roulston  
**Subject:** Nardil Recall to Pharmacy  
**Attachments:** Nardil Pharmacy Recall Letter 8 Feb 2019 - final draft.docx

Hi Brian

As discussed we have new stock of Nardil in New Zealand for customers and due for release for sale late today/tomorrow morning.

Attached is the approved letter from MedSafe to trigger a Pharmacy Level recall, which we will send out tomorrow, so please **keep confidential until that time.**

Please contact me with any questions and comments

Thank you for your time with this.

[REDACTED]

[REDACTED]  
Manager New Zealand (FACBS, MSc, BSc) | m + [REDACTED]  
e. [REDACTED]  
w. [www.clinigengroup.com](http://www.clinigengroup.com)



**From:** [REDACTED]  
**Sent:** Wednesday, 20 February 2019 8:42 AM  
**To:** Brian Roulston  
**Subject:** RE: Important Please: Nardil (phenelzine sulfate 15mg) recall and immediate OOS situation

Hi Brian

Just an update for you. We have new stock arrived into NZ yesterday and should be cleared for sale late today.

Kind Regards  
[REDACTED]

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**From:** [REDACTED]  
**Sent:** Tuesday, 12 February 2019 7:55 AM  
**To:** Brian Roulston <[REDACTED]>  
**Subject:** Important Please: Nardil (phenelzine sulfate 15mg) recall and immediate OOS situation

Dear Brian

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Kind Regards  
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Manager New Zealand (FACBS, MSc, BSc)

Link (A Clinigen Company)

t [REDACTED] | m + [REDACTED]

e. [REDACTED]

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**From:** Brian Roulston  
**Sent:** Friday, 5 April 2019 3:08 PM  
**To:** [REDACTED]  
**Subject:** RE: Nardil for NZ pending out of stock and alternative for your consideration

Hi [REDACTED] sorry for the delay responding to your earlier email

PHARMAC has no objection to the supply of the Canadian alternative as outlined below.

We'd like to get this listed in the Schedule from 1 May 2019, can you please arrange an NOPC including Pharmacode

Kind regards,  
Brian

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**From:** [REDACTED] <[REDACTED]>  
**Sent:** Friday, April 5, 2019 1:00 PM  
**To:** Brian Roulston <[REDACTED]>  
**Subject:** FW: Nardil for NZ pending out of stock and alternative for your consideration

Hi Brian

To ensure patients have continuity of supply and the back work involved in this alternative, we were wondering if you have a decision on the acceptance of the Canadian stock to supply as Section 29 ?  
We are working to grab this stock as there is a global shortage and trying to juggle various shipping options ie.,

Bring into Singapore for Australian and NZ market Then if you don't accept the stock then Australia have acceptance for it in Australia  
Otherwise if we bring directly into NZ it is faster and less expensive (for us obviously)

Do you have any guidance on this as we are trying to get as much stock as possible for Asia Pacific to ensure the patients are ensured continuity of supply

With thanks and appreciation

[REDACTED]

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**From:** [REDACTED]  
**Sent:** Tuesday, 2 April 2019 8:16 PM  
**To:** 'Brian Roulston' <[REDACTED]>  
**Subject:** Nardil for NZ pending out of stock and alternative for your consideration

Dear Brian

This email is to advise of a pending out of stock of Nardil in approximately 3-4 weeks This is still variable depending on other options to supply the registered pack, but we should work to this timeline As you are aware we have had a product recall recently and this has impacted on stock availability and supply

Our current pack is: **Nardil (phenelzine sulphate) 15mg tab (x 100)**  
<https://medsafe.govt.nz/profs/Datasheet/n/nardiltab.pdf>

We have an alternative Canadian product for your consideration which is a pack size of **60 tabs** and would be pro rata the same price as the 100 tablet pack

Info is attached.

Although the tradenames are the same, NARDIL registered and marketed in Canada is a different formulation to Australia and New Zealand The clinical impact on the formulation difference is unknown See below comparison of NARDIL ANZ and Canadian formulations

ANZ (Link) Haupt/Recipharm . Store 2-8C			Canada (ERFA) - ambient storage.		
Component	Qty	Function	Component	Qty	Function
phenelzine sulphate	25.83	active	phenzine sulfate		
equiv to 15mg phenelzine			equiv to 15mg phenelzine		
mannitol	178.83	diluent	mannitol		diluent
povidone	6.6	disintegrant	povidone		disintegrant
magnesium stearate	6.58	lubricant	magnesium stearate		lubricant
maize starch	4.42	binder	croscarmellose sodium		disintegrant
opadry	13.3	coating	edetate disodium		chelating agent/preservative
			opadry		coating

The NARDIL ERFA product from Canada is same as the Pfizer product (formulation and manufacturing site) that is registered in many markets including EU and USA (confirmed by ERFA).

Brian our sincere apologies for the pending OOS We would ask that if the alternative pack is acceptable that I will submit a NOPC form with Pharmacode for this product.

Please let me know if you require any further information.

Thanks,  
[REDACTED]



**From:** Brian Roulston  
**Sent:** Tuesday, 12 February 2019 9:43 AM  
**To:** Web Enquiry; Greg Williams; Sarita Von Afehl; Lisa Williams  
**Subject:** Potential recall - Nardil (phenelzine sulfate 15mg) all batches

per email from Link below

I spoke to Link ( [REDACTED] ) and Medsafe (Kathy) this morning, there is still some conflicting information, but at this stage we should be aware that :

1. There is (apparently) a pharmacy level recall in Australia, this may generate questions for New Zealand
2. There may be a recall in New Zealand, to be decided More information to come, including mitigation for patients
3. We should consider the clinical implications for patients.
4. Refer calls to Link and/or Medsafe.

Patients – approx. 120 – indicated for anti-depression therapy, typically last line.

**Notes from call to [REDACTED] at Link :**

Recall – letter currently being approved by Medsafe, to be sent by Atlantis to all pharmacies in the next 2 days

Australia – recalled already, (although I can't see this on the TGA database)

Other batches not impacted, are in Sydney awaiting over labeling. The Wesley site mentioned below is in Sydney and was impacted by heavy rain a few days ago

Alternatives – Link investigating US and Dutch options, more information soon.

Note that the recall is not public knowledge, do not disseminate externally, refer calls to Link

**Notes from call to Kathy Daly at Medsafe :**

Will not consider a recall letter until a decision has been made on the level of the recall. They have asked Link to justify why it is not a patient level recall.

They consider that the information provided by Link is not complete and have asked questions. They will only consider options when the information is received.

Medsafe will not necessarily follow the TGA lead

Note that the issue is to do with stability – dissolution at 9 months after 45 minutes is 58%

Concerned about the patient group, switching to alternative treatments, or a batch with 100% may cause issues.

What evidence is there in relation to the other batches of non-impacted stock?

Brian

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**From:** [REDACTED]  
**Sent:** Tuesday, February 12, 2019 7:55 AM  
**To:** Brian Roulston [REDACTED]  
**Subject:** Important Please: Nardil (phenelzine sulfate 15mg) recall and immediate OOS situation

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Kind Regards

[REDACTED]

[REDACTED]

Manager New Zealand (FACBS, MSc, BSc)

Link (A Clinigen Company)

t + [REDACTED] | m [REDACTED]

e. [REDACTED]

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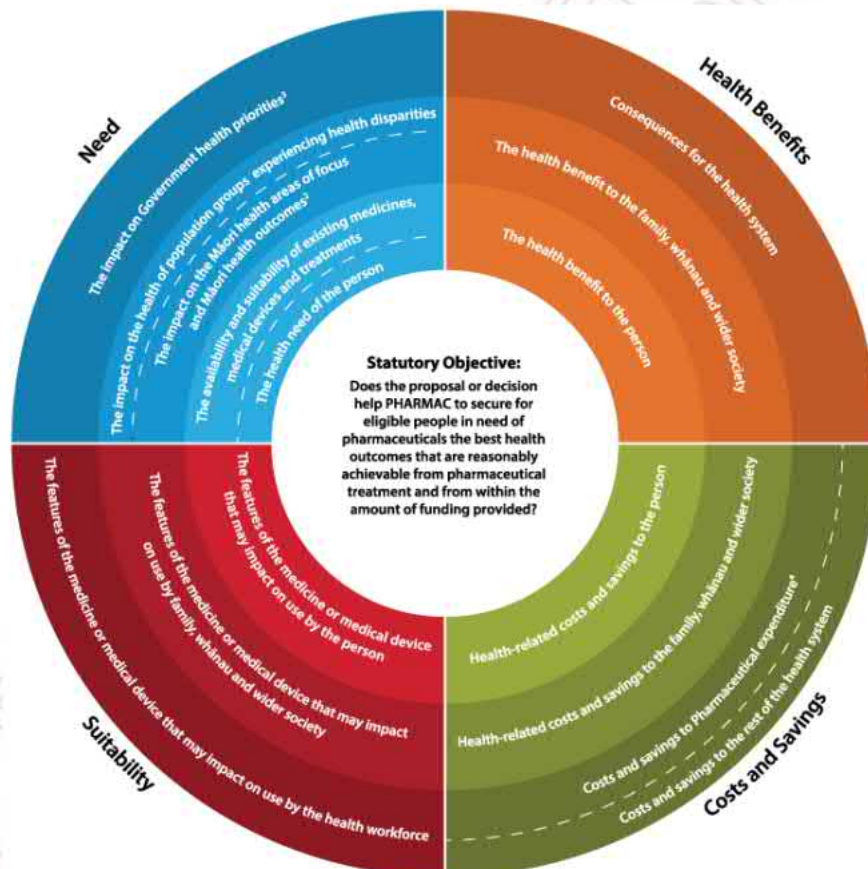
# MEMORANDUM FOR CONSIDERATION UNDER DELEGATED AUTHORITY

**To:** Director of Operations  
**From:** Manager, Procurement and Contracts  
**Date:** April 2019

## MINOR SCHEDULE CHANGES

### Factors for Consideration

This paper sets out PHARMAC staff's assessment of the proposals using the Factors for Consideration in the [Operating Policies and Procedures](#). Some Factors may be more or less relevant (or may not be relevant at all) depending on the type and nature of the decision being made and, therefore, judgement is always required. The decision maker is not bound to accept PHARMAC staff's assessment of the proposal under the Factors for Consideration and may attribute different significance to each of the Factors from that attributed by PHARMAC staff.



### Footnotes

<sup>1</sup> The person receiving the medicine or medical device must be an eligible person, as set out in the [Health and Disability Services Eligibility Direction 2011](#) under Section 32 of the [New Zealand Public Health and Disability Services Act 2000](#).

<sup>2</sup> The current Māori health areas of focus are set out in PHARMAC's [Te Whaioranga Strategy](#).

<sup>3</sup> Government health priorities are currently communicated to PHARMAC by the Minister of Health's [Letter of Expectations](#).

<sup>4</sup> Pharmaceutical expenditure includes the impact on the Combined Pharmaceutical Budget (CPB) and / or DHB hospital budgets (as appropriate).

<sup>5</sup> Please note PHARMAC's Factors for Consideration schematic currently does not explicitly refer to the health needs of family, whānau and wider society, but this factor should be considered alongside those depicted in the schematic.

## Consultation

Section 49(a) of the NZPHD Act requires PHARMAC to consult, when it considers it appropriate to do so, on matters that relate to the management of pharmaceutical expenditure with any sections of the public, groups or individuals that, in the view of PHARMAC, may be affected by decisions on those matters

PHARMAC staff do not consider that sections of the public, groups or individuals would be significantly affected by decisions on the proposals relating to the items listed as numbers 1 – 4, in the document and do not consider that consultation is necessary or appropriate on those items, because:

- adequate funded alternatives would remain listed on the Pharmaceutical Schedule;
- the proposals in this paper seek to ensure the Pharmaceutical Schedule listings reflect the intent of previous decisions (for which consultation occurred);
- the proposals do not result in any additional financial expenditure
- the proposals would result only in improvements to procurement, dispensing, subsidy and claiming mechanisms; and/or
- The proposals are a necessary response to circumstances beyond PHARMAC's control, or are consequential to a decision already taken.

## Advisor Conflicts of Interest

The recommendations in this paper do not rely on PTAC or Subcommittee advice.

## Glossary of terms and abbreviations

The terms and abbreviations used in this paper are set out in the attached/linked document below



Glossary of Terms.obr

## Recommendations

It is recommended that having regard to the decision criteria set out in Section 2.2 of PHARMAC's Operating Policies and Procedures you exercise your delegated authority and

**resolve** to amend Section B and/or Part D and/or Part II of Section H of the Pharmaceutical Schedule from the dates in this proposal and in the manner summarised in this document; and

**resolve** that consultation on the proposals in this paper was not necessary or appropriate.



**1. Supplier Discontinuations**

Chemical & Presentation (Brand)	Supplier	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Section(s) of Pharmaceutical Schedule & implementation date	Background & Analysis
		Community	DHB Hospital		
					[REDACTED]
					[REDACTED]
					[REDACTED]
					[REDACTED]
[REDACTED]	[REDACTED]				[REDACTED]
[REDACTED]	[REDACTED]				[REDACTED]

Chemical & Presentation (Brand)	Supplier	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Section(s) of Pharmaceutical Schedule & implementation date	Background & Analysis
		Community	DHB Hospital		
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
(P	[REDACTED]				

## 2. New Listings

Chemical & Presentation (Brand)	Pack Size	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	
Phenelzine Sulphate (Nardil S29) Tab 15 mg	60	\$57.00	Section B 1 May 2019  Apply the Section 29 and Wastage rules	Nil	Nil [\$1,000]	<p>Nardil is supplied by Link Healthcare under the terms of the agreement dated 14 August 2008. In February 2019 Link recalled batches of Nardil in New Zealand and other markets. Further, unaffected stock was coincidentally impacted by a weather event in Sydney. While there was no out of stock at that time, Link now have a flow on supply shortage as it rebuilds stock levels, expected to be for approximately 1 month.</p> <p>Link propose to supply an alternative brand of Nardil, under Section 29. The stock is packaged for the Canadian market. It would not be eligible for a labelling exemption due to difference in the excipients.</p>

Chemical & Presentation (Brand)	Pack Size	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	
						<p>Nardil is indicated for major depression and is often used last line. It is dispensed to approximately 120 patients.</p> <p>There would be no impact on the CPB as Nardil S29 would be supplied at a pro-rata price. There would be a cost to DHBs of approximately \$1,000 due to the additional dispensing fees of the Section 29 alternative. We would anticipate collecting any additional costs from Link under the indemnity terms of the agreement.</p>

RELEASED UNDER THE OFFICIAL INFORMATION ACT

### 3. Price Changes

Chemical & Presentation (Brand)	Current subsidy (& price)	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	

**4. Other changes**

Chemical & Presentation (Brand)	Supplier	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Resolution	Background and Analysis
		Community	DHB Hospital		

OFFICIAL

Chemical & Presentation (Brand)	Supplier	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Resolution	Background and Analysis
		Community	DHB Hospital		

Footnotes 1. NPV (5 years, 8%)

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OFFICIAL INFORMATION

**Summary of Financial Impact**

Description	Financial impact 5 year NPV @ 8% discount		
	CPB		Other financial impacts
	Community	DHB Hospital	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
Phenelzine Sulphate (Nardil S29) Tab 15 mg – listing of an alternative s29 brand due to a supply issue	Nil	Nil	\$1,000
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
TOTAL	[REDACTED]	[REDACTED]	[REDACTED]



**PRESCRIBING INFORMATION**  
**PRODUCT MONOGRAPH**

**NARDIL\***

Phenelzine Sulfate Tablets USP

15 mg

**ANTIDEPRESSANT**

**ERFA**  
Canada 2012 Inc.

8250 Décarie Blvd, suite 110  
Montréal, QC  
Canada, H4P 2P5

DATE OF REVISION: December 11, 2015

CONTROL NUMBER: 187465

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**PRODUCT MONOGRAPH****NAME OF DRUG****NARDIL\***

Phenelzine Sulfate Tablets USP

15 mg

**PHARMACOLOGICAL CLASSIFICATION**

Antidepressant

**ACTIONS AND CLINICAL PHARMACOLOGY**

NARDIL (phenelzine sulfate) is a potent monoamine oxidase (MAO) inhibitor. Monoamine oxidase is a complex enzyme system, widely distributed throughout the body. Drugs that inhibit monoamine oxidase in the laboratory are associated with a number of clinical effects. Thus, it is unknown whether MAO inhibition *per se*, other pharmacologic actions, or an interaction of both is responsible for the clinical effects observed.

All the currently employed MAO inhibitors are readily absorbed after oral administration. They are not given parenterally. These drugs produce maximal inhibition of MAO in biopsy samples from man within 5 to 10 days. However, although their biological activity is prolonged due to the characteristics of their interaction with the enzyme, their clinical efficacy appears to be reduced when given less frequently than once daily. In chronically treated phenelzine patients on 60 mg/day, steady-state trough and peak levels are between 1 and 10 ng/mL.

**INDICATIONS AND CLINICAL USE**

NARDIL (phenelzine sulfate) is indicated in the treatment of depressed patients clinically characterized as "atypical", "nonendogenous" or "neurotic". These patients often have mixed anxiety and depression and phobic or hypochondriacal features. There is less conclusive evidence of its usefulness for severely depressed patients with endogenous features. NARDIL is indicated for patients who have failed to respond to the drugs more commonly used for these conditions.

**CONTRAINDICATIONS**

NARDIL (phenelzine sulfate) is contraindicated in patients with known hypersensitivity to the drug or its ingredients, with pheochromocytoma, congestive heart failure, a history of liver disease, or abnormal liver function tests.

The potentiation of sympathomimetic substances and related compounds by MAO inhibitors may result in hypertensive crises (see WARNINGS). Therefore, patients taking NARDIL should not be given sympathomimetic drugs (including amphetamines, cocaine, methylphenidate, dopamine, epinephrine and norepinephrine), or related compounds (including methyldopa, L-dopa, L-tryptophan, L-tyrosine and phenylalanine). Hypertensive crises during NARDIL therapy may also be caused by ingestion of foods with a high concentration of tyramine or dopamine. Therefore patients being treated with NARDIL should avoid high protein food that has undergone protein breakdown by ageing, fermentation, pickling, smoking, or bacterial contamination; patients should also avoid cheeses (especially aged varieties), pickled herring, beer, wine, liver, yeast extract (including brewer's yeast in large quantities), dry sausage (including Genoa salami, hard salami, pepperoni and Lebanon Bologna), pods of broad beans (Fava beans) and yogurt. Excessive amounts of caffeine or chocolate can also potentiate hypertensive reactions.

NARDIL should not be used in combination with dextromethorphan or with CNS depressants such as alcohol and certain narcotics. Excitation, seizures, delirium, hyperpyrexia, circulatory collapse, coma and death have been reported in patients receiving MAO inhibitor therapy, who have been given a single dose of meperidine. NARDIL should not be administered together with or in rapid succession to other MAO inhibitors or dibenzazepine derivative drugs or other antidepressant drugs (listed below), because HYPERTENSIVE CRISES and convulsive seizures, fever, marked sweating, excitation, delirium, tremor, coma and circulatory collapse may occur.

**MAO Inhibitors:** Moclobemide, procarbazine, tranlycypromine.

**Dibenzazepine Derivative or other Antidepressant Drugs:** Amitriptyline, amitriptyline and perphenazine, amoxapine, carbamazepine, clomipramine, cyclobenzaprine, desipramine, doxepin, imipramine, maprotiline, nortriptyline, protriptyline, trimipramine.

At least 10 days should elapse between the discontinuation of another MAO inhibitor and the institution of NARDIL therapy.

NARDIL should not be used in combination with buspirone hydrochloride, since several cases of elevated blood pressure have been reported in patients taking MAO inhibitors who were then given buspirone HCl. At least 10 days should elapse between the discontinuation of NARDIL and the institution of another antidepressant or buspirone HCl, or the discontinuation of another MAO inhibitor and the institution of NARDIL therapy.

The concurrent administration of an MAO inhibitor and bupropion HCl is contraindicated.

There have been reports of serious reactions (including hyperthermia, rigidity, myoclonic movements and death) when serotonin re-uptake inhibitors or venlafaxine have been combined with an MAO inhibitor. Therefore, NARDIL should not be used in combination with venlafaxine or serotonin re-uptake inhibitors. Allow at least five weeks between discontinuation of fluoxetine and initiation of NARDIL, and at least 10 days between discontinuation of NARDIL and initiation of fluoxetine or other serotonin re-uptake inhibitors. Before

initiating NARDIL treatment, after having used other serotonin re-uptake inhibitors, a sufficient amount of time must be allowed for clearance of the serotonin re-uptake inhibitor and its active metabolites.

The combination of MAO inhibitors and tryptophan has been reported to cause behavioural and neurologic symptoms including disorientation, confusion, amnesia, delirium, agitation, hypomanic signs, ataxia, myoclonus, hyperflexia, shivering, ocular oscillations and Babinski signs.

Patients taking NARDIL should not undergo elective surgery requiring general anaesthesia. Also, they should not be given cocaine or local anaesthesia containing sympathomimetic vasoconstrictors. The possible combined hypotensive effects of NARDIL and spinal anaesthesia should be kept in mind. NARDIL should be discontinued at least 10 days prior to elective surgery.

MAO inhibitors including NARDIL are contraindicated in patients receiving guanethidine or reserpine.

### **WARNINGS**

The most serious reactions to NARDIL (phenelzine sulfate) involve changes in blood pressure.

#### **Hypertensive Crises**

The most important reaction associated with NARDIL administration is the occurrence of hypertensive crises, which have sometimes been fatal. These crises are characterized by some or all of the following symptoms: occipital headache which may radiate frontally, palpitation, neck stiffness or soreness, nausea, vomiting, sweating (sometimes with fever and sometimes with cold, clammy skin), dilated pupils, and photophobia. Either tachycardia or bradycardia may be present and can be associated with constricting chest pain.

NOTE: Intracranial bleeding has been reported in association with the increase in blood pressure.

Blood pressure should be observed frequently to detect evidence of any pressor response in patients receiving NARDIL. Therapy should be discontinued immediately upon the occurrence of palpitation or frequent headaches during therapy.

#### **Recommended treatment in hypertensive crisis**

If a hypertensive crisis occurs, NARDIL should be discontinued immediately and therapy to lower blood pressure instituted immediately. On the basis of present evidence, phentolamine is recommended. (The dosage reported for phentolamine is 5 mg intravenously). Care should be taken to administer this drug slowly in order to avoid producing an excessive hypotensive effect. Fever should be managed by means of external cooling.

### **Angle-Closure Glaucoma**

As with other antidepressants, NARDIL can cause mydriasis, which may trigger an angle-closure attack in a patient with anatomically narrow ocular angles. Healthcare providers should inform patients to seek immediate medical assistance if they experience eye pain, changes in vision or swelling or redness in or around the eye.

### **Information for the Patient**

All patients, should be warned that the following foods, beverages and medications (Tables 1 and 2) must be avoided while taking NARDIL, and for two weeks after discontinuing use:

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**Table 1. Foods and Beverages to Avoid During NARDIL Therapy**

MEAT AND FISH:	Pickled herring, liver, dry sausage (including Genoa salami, hard salami, pepperoni and Lebanon bologna)
VEGETABLES:	Broad bean pods (Fava beans) and sauerkraut
DAIRY PRODUCTS:	Cheese, yogurt (cottage cheese and cream cheese are allowed)
BEVERAGES:	Beer and wine, alcohol-free and reduced-alcohol beer and wine products
MISCELLANEOUS:	Yeast extract (including brewer's yeast in large quantities), meat extract, excessive amounts of chocolate or caffeine

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Patients being treated with NARDIL should also avoid any spoiled or improperly refrigerated, handled or stored protein-rich foods such as meats, fish and dairy products, including foods that may have undergone protein breakdown by ageing, pickling, fermentation, or smoking to improve flavour.

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**Table 2. OTC Medications to Avoid During NARDIL Therapy**

1.	Cold and cough preparations (including those containing dextromethorphan)
2.	Nasal decongestants (tablets, drops or spray)
3.	Hay-fever medications

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4. Sinus medications

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  5. Asthma inhalant medications

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  6. Anti-appetite medicines

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  7. Weight-reducing preparations

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  8. L-tryptophan containing preparations
- 
- 

Certain prescription drugs should be avoided. Therefore, patients under the care of another physician or dentist, should inform him/her that they are taking NARDIL.

Patients should be warned that the use of the above foods, beverages or medicines may cause a reaction characterized by headache and other serious symptoms due to a rise in blood pressure, with the exception of dextromethorphan, which may cause reactions similar to those seen with meperidine.

Patients should be instructed to report promptly the occurrence of headache or other unusual symptoms.

### **PRECAUTIONS**

#### **General**

In depressed patients, the possibility of suicide should always be considered and adequate precautions taken. It is recommended that careful observation of patients undergoing NARDIL (phenelzine sulfate) treatment be maintained until control of depression is achieved. If necessary, additional measures (ECT, hospitalization, etc.) should be instituted.

All patients undergoing treatment with NARDIL should be closely followed for symptoms of postural hypotension. Hypotensive side effects have occurred in hypertensive as well as normal and hypotensive patients. Blood pressure usually returns to pretreatment levels rapidly when the drug is discontinued or the dosage is reduced.

Because the effect of NARDIL on the convulsive threshold may be variable, adequate precautions should be taken when treating epileptic patients.

Of the more severe side effects that have been reported with any consistency, hypomania has been the most common. This reaction has been largely limited to patients in whom disorders characterized by hyperkinetic

symptoms coexist with, but are obscured by, depressive effect; hypomania usually appears as depression improves. If agitation is present, it may be increased with NARDIL. Hypomania and agitation have been reported at higher than recommended doses, or following long-term therapy.

NARDIL may cause excessive stimulation in schizophrenic patients; in manic-depressive states it may result in a swing from a depressive to a manic phase.

MAO inhibitors, including NARDIL, potentiate hexobarbital hypnosis in animals. Therefore, barbiturates should be given at a reduced dose with NARDIL.

MAO inhibitors inhibit the destruction of serotonin and norepinephrine, which are believed to be released from tissue stores by rauwolfia alkaloids. Accordingly, caution should be exercised when rauwolfia is used concomitantly with an MAO inhibitor, including NARDIL.

There is conflicting evidence as to whether or not MAO inhibitors affect glucose metabolism or potentiate the effect of hypoglycemic agents. This should be kept in mind if NARDIL is administered to diabetic patients.

NARDIL, as with other hydrazine derivatives has been reported to induce pulmonary and vascular tumours in an uncontrolled lifetime study in mice.

#### **Drug Interactions**

NARDIL should be used with caution in combination with antihypertensive drugs, including thiazide diuretics and  $\beta$ -blockers, since exaggerated hypotension may result.

See CONTRAINDICATIONS and WARNINGS for additional drug interactions.

#### **Use in Pregnancy**

The safe use of NARDIL during pregnancy or lactation has not been established. The potential benefit of this drug, if used during pregnancy, lactation, or in women of childbearing age, should be weighed against the possible hazard to the mother or fetus.

#### **Lactation**

The safe use of NARDIL during lactation has not been established. There are insufficient adequate and well-controlled studies in lactating women. Therefore, NARDIL should be used in lactating women only if clearly needed. It is not known whether this drug is excreted in human milk. Because many drugs are excreted in human milk and because of the potential for serious adverse reactions in nursing infants to NARDIL, a decision should be made whether to discontinue the drug, taking into account the importance of the drug to the mother, or to discontinue nursing.

**Use in Children**

NARDIL is not recommended for patients under 16 year of age since there are no controlled studies of safety in this age group.

**ADVERSE REACTIONS**

NARDIL (phenelzine sulfate) is a potent inhibitor of monoamine oxidase. Because this enzyme is widely distributed throughout the body, diverse pharmacologic effects may be expected to occur. When they occur, such effects tend to be mild to moderate in severity (see below), often subside with continuing treatment, and may be minimized by adjusting dosage; rarely is it necessary to institute counteracting measures or to discontinue NARDIL.

Common side effects include:

***Nervous System:*** Dizziness, headache, drowsiness, sleep disturbances (including insomnia and hypersomnia), weakness and fatigue, tremors, twitching, myoclonic movements and hyperreflexia.

***Gastrointestinal:*** Constipation, dry mouth, GI disturbances, elevated serum transaminases (without accompanying signs and symptoms).

***Metabolic:*** Weight gain.

***Cardiovascular:*** Postural hypotension, edema.

***Genitourinary:*** Sexual disturbances, i.e., anorgasmia, ejaculatory disturbances and impotence.

Less common mild to moderate side effects (some of which have been reported in a single patient or by a single physician), include:

***Nervous System:*** Jitteriness, palilalia, euphoria, nystagmus, paresthesias.

***Genitourinary:*** Urinary retention.

***Metabolic:*** Hyponatremia.

***Dermatologic:*** Pruritus, skin rash, sweating.

***Special Senses:*** Blurred vision, glaucoma.



Although reported less frequently, and sometimes only once, additional severe side effects include:

**Nervous System:** Ataxia, shock-like coma, toxic delirium, manic reaction, convulsions, acute anxiety reaction, precipitation of schizophrenia, transient respiratory and cardiovascular depression following ECT.

**Gastrointestinal:** To date, fatal progressive necrotizing hepatocellular damage has been reported in a very few patients. Reversible jaundice.

**Hematologic:** Leukopenia.

**Immunologic:** Lupus-like syndrome

**Metabolic:** Hypermetabolic syndrome (which may include, but is not limited to, hyperpyrexia, tachycardia, tachypnea, muscular rigidity, elevated CK levels, metabolic acidosis, hypoxia, coma, and may resemble an overdose).

**Respiratory:** Edema of the glottis.

**Other:** Fever associated with increased muscle tone

Withdrawal may be associated with nausea, vomiting and malaise.

An uncommon withdrawal syndrome following abrupt withdrawal of NARDIL has been infrequently reported. Signs and symptoms of this syndrome generally commence 24 to 72 hours after drug discontinuation and may range from vivid nightmares with agitation to frank psychosis and convulsions. This syndrome generally responds to reinstatement of low-dose NARDIL therapy followed by cautious downward titration and discontinuation.

#### **SYMPTOMS AND TREATMENT OF OVERDOSAGE**

NOTE: For management of hypertensive crises, see WARNINGS. Accidental or intentional overdose may be more common in patients who are depressed. It should be remembered that multiple drugs and/or alcohol may have been ingested.

Depending on the amount of overdose with NARDIL (phenelzine sulfate), a varying and mixed clinical picture may develop, including signs and symptoms of central nervous system and cardiovascular stimulation and/or depression. Signs and symptoms may be absent or minimal during the initial 12-hour period following ingestion and may develop slowly thereafter, reaching a maximum in 24 to 48 hours. Death has been reported

following overdose. Therefore, immediate hospitalization, with continuous patient observation and monitoring throughout this period, is essential.

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Signs and symptoms of overdosage may include, alone or in combination, any of the following: drowsiness, dizziness, faintness, irritability, hyperactivity, agitation, severe headache, hallucinations, trismus, opisthotonos, rigidity, convulsions and coma, rapid and irregular pulse, hypertension, hypotension and vascular collapse, precordial pain, respiratory depression and failure, hyperpyrexia, diaphoresis, and cool, clammy skin.

Intensive symptomatic and supportive treatment may be required. Induction of emesis or gastric lavage with instillation of charcoal slurry may be helpful in early poisoning, provided the airway has been protected against aspiration. Signs and symptoms of central nervous system stimulation, including convulsions, should be treated with diazepam, given slowly intravenously. Phenothiazine derivatives and central nervous system stimulants should be avoided. Hypotension and vascular collapse should be treated with intravenous fluids, and if necessary, blood pressure titration with an intravenous infusion of dilute pressor agent. It should be noted that adrenergic agents may produce a markedly increased pressor response.

Respiration should be supported by appropriate measures, including management of the airway, use of supplemental oxygen, and mechanical ventilatory assistance, as required.

Body temperature should be monitored closely. Intensive management of hyperpyrexia may be required. Maintenance of fluid and electrolyte balance is essential.

There are no data on the lethal dose in man. The pathophysiologic effects of massive overdosage may persist for several days, since the drug acts by inhibiting physiologic enzyme systems. With symptomatic and supportive measures, recovery from mild overdosage may be expected within 3 to 4 days.

Hemodialysis, peritoneal dialysis, and charcoal hemoperfusion may be of value in massive overdosage, but sufficient data are not available to recommend their routine use in these cases.

Toxic blood levels of phenelzine have not been established, and assay methods are not practical for clinical or toxicological use.

### **DOSAGE AND ADMINISTRATION**

**Initial Dose:** The usual starting dose for NARDIL (phenelzine sulfate) is one tablet (15 mg) three times a day.

**Early Phase Treatment:** Dosage should be increased to at least 60 mg per day at a fairly rapid pace consistent with patient tolerance. It may be necessary to increase dosage up to 90 mg per day to obtain sufficient MAO inhibition. Many patients do not show a clinical response until treatment at 60 mg has been continued for at least 4 weeks.

**Maintenance Dose:** After maximum benefit from NARDIL is achieved, dosage should be reduced slowly over several weeks. Maintenance dose may be as low as 1 tablet, 15 mg a day or every other day, and should be continued for as long as is required.

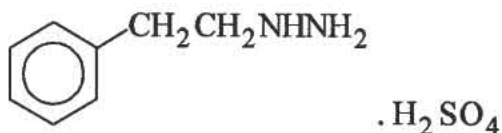
### PHARMACEUTICAL INFORMATION

#### Drug Substance

PROPER NAME: Phenelzine Sulfate

CHEMICAL NAME: 2-Phenylethylhydrazine Sulfate

CHEMICAL STRUCTURE:



MOLECULAR FORMULA:  $\text{C}_8\text{H}_{12}\text{N}_2 \cdot \text{H}_2\text{SO}_4$

MOLECULAR WEIGHT: 234.27

DESCRIPTION: Phenelzine sulfate is a hydrazine derivative. It is a white to yellowish powder with a characteristic odour. It is freely soluble in water and has a melting point of 164-168°C.

#### Composition

Each film coated tablet contains phenelzine sulfate, equivalent to 15 mg of phenelzine base. Inactive ingredients include: crosscarmellose sodium, editate disodium, magnesium stearate, mannitol, opadry orange, povidone.

**Stability and Storage Recommendations**

Store at controlled room temperature 15 - 30°C. Protect from heat and moisture.

**AVAILABILITY**

NARDIL is available as orange, biconvex, film-coated tablets engraved with "PD 270", in bottles of 60. Each tablet contains phenelzine sulfate, equivalent to 15 mg of phenelzine base.

**PHARMACOLOGY**

The pharmacologic properties of NARDIL (phenelzine sulfate) are similar to other MAO inhibitors (nialamide and tranylcypromine). The drug does not appear to potentiate the cardiovascular action of epinephrine or serotonin; however, it has a hypotensive action. In reserpinized-cats, MAO inhibitors are antagonists for almost all activities of this neuroleptic; sometimes, there is even a reversal of effect, i.e. the sedative effect of reserpine is replaced by hyperexcitability. Other central effects exhibited by MAO inhibitors include an increase in spontaneous motor activity in mice and rats. In addition, the conditioned avoidance response is generally diminished or blocked, whereas the escape response is unaffected. Phenelzine has little effect on the potentiation of hexobarbital narcosis in mice.

**TOXICOLOGY**

The median lethal dose of phenelzine is reported to be as follows:

<b>Species</b>	<b>Route of Administration</b>	<b>Median Lethal Dose (mg/kg)</b>
Mouse	Oral	156
	IV	157
Rat	Oral	210

Phenelzine sulfate, as with other hydrazine derivatives, has been reported to exhibit tumorigenic action in laboratory animals. Lifelong administration of phenelzine in drinking water of random-bred Swiss albino mice gave rise to pulmonary and vascular tumours. The lung tumour incidence rose from 21% to 56% in females and from 23% to 36% in males, while the vascular tumour incidence increased from 5% to 44% in females and from 6% to 8% in males, as compared with the untreated controls. However, the induction of pulmonary tumour in mice (mainly adenomas) cannot be considered as representative of tumorigenicity in other species.

Doses of NARDIL in pregnant mice, well exceeding the maximum recommended human dose, have caused a significant decrease in the number of viable offspring per mouse. In addition, the growth of young dogs and rats has been retarded by doses exceeding the maximum human dose.

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**READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE****PATIENT MEDICATION INFORMATION****Nardil****Phenelzine sulfate tablets**

Read this carefully before you start taking **Nardil** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **Nardil**.

**What is Nardil used for?**

Nardil is used to treat depression where anxiety or fear is the main symptom and treatment with other drugs has failed. Symptoms of depression include:

- feeling sad, restless, irritable, tired
- change in appetite or weight, difficulty concentrating or sleeping, headaches, unexplained aches and pains

**How does Nardil work?**

Nardil belongs to a group of antidepressant medicines called monoamine oxidase inhibitors (MAOIs). Nardil works by increasing some chemical messengers (norepinephrine, serotonin and dopamine) found naturally in your brain and other parts of your body.

**What are the ingredients in Nardil?**

Medicinal ingredients: phenelzine sulfate.

Non-medicinal ingredients: croscarmellose sodium, editate disodium, magnesium stearate, mannitol, opadry orange, povidone.

**Nardil comes in the following dosage forms:**

15mg tablets.

**Do not use Nardil if you:**

- are allergic to any of the ingredients in Nardil (please read “What are the ingredients in Nardil?” above)
- have been diagnosed with a growth on the adrenal glands near your kidneys which is causing high blood pressure (phaeochromocytoma)
- have been diagnosed with congestive heart failure
- have or ever have had liver problems
- are taking drugs that affect your nervous system (e.g. amphetamines, cocaine, methylphenidate, dopamine, epinephrine and norepinephrine, methyl dopa, L-dopa, L-tryptophan, L-tyrosine and phenylalanine)
- are taking dextromethorphan, guanethidine, reserpine or narcotics.
- consume alcohol. You must **not** drink alcohol while taking Nardil.
- are taking strong pain killers such as meperidine

- are taking or have recently taken other antidepressant drugs (amitriptyline, amitriptyline and amoxapine, carbamazepine, clomipramine, cyclobenzaprine, desipramine, doxepin, imipramine, maprotiline, nortriptyline, protriptyline, trimipramine, bupropion hydrochloride), other MAOIs, Selective Serotonin Reuptake Inhibitors (SSRI e.g. fluoxetine), venlafaxine or dibenzazepine derivatives.

You should wait for at least 5 weeks between stopping the use of fluoxetine and starting the use of NARDIL, and at least 10 days between stopping the use of Nardil and starting the use of fluoxetine or other serotonin re-uptake inhibitors (SSRIs).

- are taking or have recently taken a medication to treat anxiety, such as buspirone hydrochloride

You should wait for at least 10 days between stopping the use of Nardil and starting the use of another antidepressant or buspirone hydrochloride or stopping the use of another MAOI and starting the use of Nardil.

- have a scheduled surgery

You should stop taking Nardil at least 10 days before the scheduled surgery.

While taking Nardil you should not eat a lot of high protein food that has been aged, fermented, pickled, or smoked; for a detailed list of foods and beverages to avoid, see: “**Other warnings you should know about**”.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you take Nardil. Talk about any health conditions or problems you may have, including if you:**

- have had seizures or you have epilepsy
- are agitated
- have mania or hypomania (feelings of euphoria, overactive behaviour and thoughts)
- have Schizophrenia
- have diabetes
- are taking sedatives or drugs to help you sleep
- are taking drugs to treat high blood pressure
- are under 16 years of age
- are pregnant or planning to become pregnant. Nardil is not recommended to be used during pregnancy.
- are breast-feeding or planning to breastfeed

**Other warnings you should know about:**

**Dangerous Increase in Blood Pressure**

The most serious reactions to Nardil involve changes in blood pressure which have caused death. Seek immediate medical attention if you experience the following symptoms: headache at the base of your skull that may travel to the front of your head, irregular heartbeat, neck stiffness or soreness, nausea, vomiting, sweating (sometimes with fever and sometimes with cold, clammy skin), very large pupils, and extreme sensitivity to light. You may feel your heart beating either very fast or abnormally slow and you might also feel pain and tightness in your chest.

Your blood pressure should be checked regularly by your healthcare professional and Nardil should be stopped if you start getting heart palpitations or frequent headaches.

### **Angle-Closure Glaucoma**

Nardil can cause an acute attack of glaucoma (increased pressure in the eye). Seek immediate medical attention if you experience eye pain, changes in vision, swelling or redness in or around the eye.

### **Changes in your behaviour and feelings, thoughts and actions about suicide:**

Treatment with these types of medications is most safe and effective when you and your healthcare professional have good communication about how you are feeling. You may find it helpful to tell a relative or close friend that you are depressed or have anxiety disorder. You might ask them to tell you if they think your depression or anxiety is getting worse, or if they are worried about changes in your behaviour.

Some patients may feel worse instead of better when first starting drugs like Nardil or when changing the dose. You may feel more anxious, agitated, hostile, aggressive, impulsive, and feel like you are not yourself or become less inhibited. You may have thoughts of suicide, hurting yourself or other people. Thoughts and actions about suicide can occur especially if you have had thoughts of hurting yourself in the past. These changes in behaviour and feelings can happen in patients of any age treated with Nardil. **If this happens, seek immediate medical help.** Do NOT stop taking Nardil on your own.

### **Driving and Using Machines**

Nardil might cause drowsiness or blurred vision. Do not drive or operate with machines until you know how Nardil affects you.

### **Food and Beverages to Avoid While Taking Nardil**

While taking Nardil, as well as for two weeks after stopping it, you should avoid the following foods, beverages:

- MEAT AND FISH: Pickled herring, liver, dry sausage (including Genoa salami, hard salami, pepperoni and Lebanon bologna)
- VEGETABLES: Broad bean pods (Fava beans) and sauerkraut
- DAIRY PRODUCTS: Cheese, yogurt (cottage cheese and cream cheese are allowed)
- BEVERAGES: Beer and wine, alcohol-free and reduced-alcohol beer and wine products
- MISCELLANEOUS: Yeast extract (including brewer's yeast in large amounts), meat extract, large amounts of chocolate or caffeine

You should also avoid any spoiled or improperly refrigerated, handled or stored protein-rich foods such as meats, fish and dairy products. You should also avoid any food that has been aged, pickled, fermented, or smoked.

**Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

### **The following may interact with Nardil:**

- Medications used to treat high blood pressure, including water-pills (diuretics) and beta-blockers
- Medications to treat colds and coughs
- Nasal decongestants (tablets, drops or spray)
- Hay-fever medications
- Sinus medications

- Asthma inhalers
- Medicines used to reduce your appetite
- Weight loss medications

**For a list of other drugs that must not be taken with Nardil see the “Do not use Nardil if you:” section above.**

#### **How to take Nardil:**

Always take Nardil exactly as your healthcare professional told you. You should check with your healthcare professional if you are not sure. Do not change your dose unless your healthcare professional tells you to. Swallow the tablets with some water.

#### **Usual adult dose**

The usual starting dose of Nardil is one tablet (15mg) three times a day.

It may take four weeks before you feel the full effect of Nardil.

If your symptoms have not improved after two weeks, your healthcare professional may increase the dose to two tablets two times a day. If necessary, your healthcare professional may increase the dose up to two tablets three times daily. Once Nardil is helping your depression, your healthcare professional may slowly lower the dose. Your maintenance dose may be as low as one tablet every other day.

#### **Overdose**

If you think you have taken too much Nardil, contact your healthcare professional, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms. Take this leaflet and the pack of tablets along with you, if you can.

#### **Missed Dose**

If you miss a dose of Nardil, take your next dose at the usual time and continue taking the tablets according to your healthcare professional's instructions. Do not take a double dose to make up for a forgotten individual dose.

#### **If you stop taking Nardil**

Do not stop taking Nardil unless your healthcare professional tells you to. Stopping Nardil can cause nausea, and vomiting and make you feel unwell. If Nardil is stopped suddenly this can cause serious side effects. This may happen one to three days after stopping Nardil and symptoms may include: nightmares, agitation, psychosis (seeing or hearing things that are not there, or believing things which are not true) and fits.

If this happens, tell your healthcare professional immediately.

#### **What are possible side effects from using Nardil?**

These are not all the possible side effects you may feel when taking Nardil. If you experience any side effects not listed here, contact your healthcare professional.

Side effects may include:

- Dizziness
- Headache
- Drowsiness
- Sleep disturbances
- Weakness and feeling tired
- Shaking, twitching, muscle jerking, stronger than normal reflexes
- Constipation, dry mouth, digestion problems
- Weight gain
- Swelling
- Sexual problems such as difficulty to reach orgasm, problems ejaculating and trouble getting or keeping an erection
- Speech changes (repeating the last word of a sentence)
- Feeling tense and nervous, intense feelings of well-being, elation, happiness, excitement and joy (euphoria)
- Involuntary, rapid and repetitive movement of the eyes
- Tingling or pricking feeling
- Itchiness, skin rash, sweating, blurred vision.
- Uncontrolled body movements.
- Fever with tight muscle.

Nardil can cause abnormal blood test results. Your doctor will decide when to perform blood tests and will interpret the results.

Serious side effects and what to do about them				
Symptom / effect		Talk to your healthcare professional		Stop taking drug and get immediate medical help
		Only if severe	In all cases	
Common	<b>Low Blood Pressure</b> (dizziness, fainting, lightheadedness. May occur when you go from lying or sitting to standing up.)	✓		
Uncommon	<b>Urinary retention</b> (Inability to urinate)			✓
	<b>Glaucoma</b> (increased pressure in your eyes, eye pain)			✓

	<b>High levels of sodium in the blood</b> (thirst)	✓		
Rare	<b>Shock-like coma</b> (Loss of consciousness)			✓
	<b>Changes in behaviour and feelings, thoughts and actions about suicide:</b> feeling angry, aggressive, worried, agitated, hostile or impulsive. Feeling violent or suicidal. Thoughts of hurting yourself or other people. Feeling like you are not yourself or that you are less inhibited.			✓
	<b>Serious psychological problems</b> (Disorientation, seeing or hearing things which are not there, delusions and incoherent speech)			✓
	<b>Mania reaction</b> (feelings of extreme and intense happiness, irritability, aggression, increased confidence and self-esteem, reduced need for sleep, increased talkativeness and talking very fast, racing thoughts)		✓	
	<b>Convulsions</b>			✓

	(Seizures or uncontrollable body shaking)			
	<b>Transient respiratory and cardiovascular depression following ECT</b> (Temporary heart and lung problems following electroshock therapy –ECT)			✓
	<b>Liver problems including liver failure</b> (Yellowing of the skin or eyes, dark urine, abdominal pain, nausea, vomiting, loss of appetite, disorientation or confusion, sleepiness)			✓
	<b>Decreased White Blood Cells</b> (infections, fatigue, fever, aches, pains, and flu-like symptoms)		✓	
	<b>Lupus-like syndrome</b> (fever, joint pain and swelling, generally feeling unwell, skin rash)		✓	
	<b>Hypermetabolic syndrome</b> (high fever, rapid heart rate and breathing, stiff muscles, loss of consciousness)			✓
	<b>Edema of the glottis (Swollen</b>			✓



	<p><b>top of the wind pipe)</b>          (noisy breathing or high pitched sound when breathing, hoarseness, shortness of breath, trouble breathing)</p>			
	<p><b>Dangerous increase in blood pressure</b> (headache at the base of your skull that may travel to the front of your head, irregular heartbeat, neck stiffness or soreness, nausea, vomiting, sweating (sometimes with fever and sometimes with cold, clammy skin), very large pupils, extreme sensitivity to light, pain and tightness in your chest)</p>			✓

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

**Reporting Side Effects**

You can help improve the safe use of health products for Canadians by reporting serious and unexpected side effects to Health Canada. Your report may help to identify new side effects and change the product safety information.

**3 ways to report:**

- Online at [MedEffect](http://www.hc-gc.ca/medeffect) (www.hc-gc.ca/medeffect);
- By calling 1-866-234-2345 (toll-free);
- By completing a Consumer Side Effect Reporting Form and sending it by:
  - Fax to 1-866-678-6789 (toll-free), or
  - Mail to: Canada Vigilance Program  
Health Canada, Postal Locator 0701E  
Ottawa, ON  
K1A 0K9

Postage paid labels and the Consumer Side Effect Reporting Form are available at [MedEffect](http://www.hc-gc.ca/medeffect).

*NOTE: Contact your healthcare professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

**Storage:**

Store at controlled room temperature 15 - 30°C. Protect from heat and moisture.

Keep out of reach and sight of children.

**If you want more information about Nardil:**

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the [Health Canada website](http://www.hc-sc.gc.ca) (www.hc-sc.gc.ca); the manufacturer's website [www.eci2012.net](http://www.eci2012.net), or by calling 1-888-922-3133.

This leaflet was prepared by ERFA Canada 2012 Inc.

Last Revised Dec-11-2015

0x February 2019

+64 9 358 7146  
+64 9 358 7157  
info@linkhealthcare.co.nz**URGENT MEDICINE RECALL**  
**Pharmacy Level Notification**

Finished Drug product	Nardil Tablets (Phenelzine sulfate) - 15mg (Phenelzine base)- Film coated 100 Tablets in White polyethylene bottles
Batch	008739
Expiry	Aug 2019

Dear Pharmacist,

**Issue:**

Link Pharmaceuticals Ltd, following consultation with Medsafe, is recalling the above batch in New Zealand due to an Out of Specification (OOS) result for dissolution, obtained during annual stability surveillance

The current dissolution results are below the value expected and what has previously been observed at earlier time points. It is unknown if this degree of limitation in dissolution will decrease bioavailability of phenelzine from this batch of tablets at this time point. If there was decreased bioavailability, then there may be a loss of therapeutic benefit.

The dose of Nardil is individually titrated according to clinical response. Because of its action on functional levels of monoamine oxidase enzyme, the biological activity of phenelzine sulfate is prolonged and not subject to rapid changes. For further information on the pharmacological properties of phenelzine sulfate please refer to the current approved Data Sheet (28 April 2017), available at <https://medsafe.govt.nz/medicines/infosearch.asp>.

The product data sheet states that there is little information available on the pharmacokinetics of phenelzine sulfate. As with other MAOIs, there are numerous factors that can impact on pharmacokinetic and pharmacologic parameters.

If the out of specification dissolution result caused decreased bioavailability, there could be a consequential loss of therapeutic benefit. Given that phenelzine sulfate is rapidly absorbed from the gastro-intestinal tract, it is possible that a reduced dissolution may have little effect on *total* bioavailability of the product.

Overall, however, the effect of the out of specification dissolution result for this batch of Nardil on clinical efficacy is unknown and cannot be quantified

**Actions:**

We kindly request you to:

1. To immediately check/inspect stock, stop using and quarantine affected stock batch 008739 on hand to prevent further use
2. Please notify other relevant staff members of this recall.
3. If product has been supplied or transferred to another wholesaler or Pharmacy location, please forward this letter to the relevant party
4. Please complete and return the attached Acknowledgement form even if no affected stock is held. Once completed, please fax or email the form as instructed
5. Please keep this letter in a prominent position for one month in case stock is in transit

**Contact information**

Please contact Link Pharmaceuticals Ltd to arrange collection of the affected stock for destruction and the provision of replacement units. Replacement units are estimated to be available from the 22nd of February 2019.

Tel: 09 358 7146

Fax: 09 358 7157

Email: [customerservice@linkhealthcare.co.nz](mailto:customerservice@linkhealthcare.co.nz)

This recall action is being taken by Link Pharmaceuticals Ltd after consultation with Medsafe.

We regret the inconvenience caused by this situation. Please let us know immediately whether we can be of any assistance.

Signature:

Name:

Position:

## Acknowledgement Form

### Nardil Tablets (Phenelzine sulfate) Recall

Finished Drug product	Nardil Tablets (Phenelzine sulfate) 15mg (Phenelzine base)
Batch	008739
Expiry	Aug 2019

#### Affected stock

If no have **no affected**, stock tick this box

If you have affected stock, please complete the table below:

Stock Details		
Product	Batch/Lot	Quantity
<b>TOTAL AFFECTED PRODUCT</b>		
<b>Other Relevant Details:</b>		

Has your organisation supplied potentially affected product to any other pharmacy organisation?

No

Yes (please supply names and contact information of the organisations)

#### Please return via email/fax to:

Email: [customerservice@linkhealthcare.co.nz](mailto:customerservice@linkhealthcare.co.nz)

Fax: 09 358 7157

I acknowledge receipt of the Nardil Tablets (Phenelzine sulfate) Recall\_notice dated

[Date: \_\_\_\_\_] relating to the above product and batch.

#### FROM:

Organisation:	
Name:	
Position:	
Date:	
Email:	
Phone:	
Signature:	

# NOTIFICATION OF PRODUCT CHANGES



**PHARMAC**  
Pharmaceutical Management Agency

## Supplier details

Company: Link Healthcare

Contact person:

Phone:

Fax:

Email:

## Notification

Today's date: 12 4 19      Effective date: 1 May 19

Please send this form to both:

**PHARMAC** Fax: (04) 460 4995 Email: [schedule@pharmac.govt.nz](mailto:schedule@pharmac.govt.nz)

**Pharmacy Guild** - Fax: (04) 384 8085 - Email: [info@pharmacode.co.nz](mailto:info@pharmacode.co.nz)

**Important:** Price changes must be effective no later than **4:30pm on the 12<sup>th</sup> of the month** to be published the following month in the Pharmaceutical Schedule Monthly Update and the Premiums Guide.

Form sent by:

Fax       Post       Email

Signature: \_\_\_\_\_ Digitally signed by \_\_\_\_\_  
Date: 2017.08.07

## Current details

Brand name: NARDIL phenelzine sulphate

Generic name: phenelzine sulphate

Form: tabs

Pack size: x60

Old price ex supplier (excl GST): \$ 70.80

Pharmacode: 2566516

Changes:

- Price increase       Price decrease       Pack size change  
 Discontinuation       New product       Other change (please comment)

**Please note:** Subsidy is not automatically reviewed with a price change. Do not use this form if the change is contingent upon a subsidy review.

Other comments:

Section 29 replacement for OOS registered brand. Link Healthcare Code 107050

## New details

# PHARMACEUTICAL PRODUCT SPECIFICATIONS – THE CHANGE PROCESS

Pharmacists rely on the information provided by the Pharmacy Guild's 'Premiums Guide', and PHARMAC's 'Pharmaceutical Schedule' and 'Monthly Update'. This is why information for these publications must be accurate and received within the given timeframes.

For **new listings** on the Pharmaceutical Schedule, the supplier must notify PHARMAC, the Pharmacy Guild and the market by 4.30 pm on the 12<sup>th</sup> of the month prior to listing. When notifying, the supplier must have stock available for supply.

**Once a supplier decides to change the price or other details** of a subsidised pharmaceutical product, the supplier must notify the marketplace, the Pharmacy Guild and PHARMAC by **4.30 pm on the 12<sup>th</sup> of the month** prior to the change. After this deadline, all stock sold by the supplier must reflect the changed price of the product.

**The Guild and PHARMAC**, will then make these changes in their databases. **The Guild and PHARMAC communicate** and verify subsidy information. Then the Guild recalculates the differential between the manufacturer's price and the Pharmaceutical Schedule subsidy. (This is termed the premium.)

**The Guild will notify** the supplier regarding the premiums pertaining to their individual products.

**The Guild will make changes** in its monthly publication – the Premiums Guide, which provides a list of the differentials between current manufacturers' prices and Pharmaceutical Schedule subsidy. This requires time to typeset, print and distribute to pharmacists and other subscribers.

**Changes to the pharmaceutical product's premium** will also be forwarded to the software vendors for inclusion in the computer dispensary programme. This enables current premiums to be available on the pharmacist's computer, for reimbursement claiming purposes and price calculations.

**If the deadline is not respected**, the pharmacist could be unaware of the new premium, and therefore be financially disadvantaged in the event of a price increase, or patients could be disadvantaged in the case of a price decrease.

**Upon receipt of the changes**, PHARMAC will notify the appropriate Therapeutic Group Managers and review the changes with the current Pharmaceutical Schedule.

**PHARMAC will confirm** these details with the supplier, Pharmacy Guild, and Ministry of Health Sector Services – the government's organisation that processes the subsidy payments to pharmacists.

**Once the changes are processed**, the Schedule's Monthly Update is produced and then distributed for use by the first of the month. PHARMAC makes every endeavour to distribute by about the 23<sup>rd</sup> of the month to give pharmacies time to adjust stock and pricing.

## Please note

Price increases do not automatically trigger a review of the product's subsidy. To make an official request to re-examine the subsidy, please send a letter stating the request and provide any evidence on sales and expected cost to DHBs. Please allow six weeks for consideration as this will involve formal approval by the PHARMAC Board. For further information you may consult the Operating Policy and Procedure manual of the Pharmaceutical Management Agency.

## How to use this form

- Use one form per pharmaceutical product, regardless of the number of changes made to that one product.
- Please complete all lines that are applicable. Please write legibly.
- Tick those boxes that are applicable to the changes you are making.
- Fax this form to both PHARMAC and the Pharmacy Guild as soon as possible, but **no later than 4.30 pm on the 12<sup>th</sup> of the month (or 4.30 pm on the last working day preceding the 12<sup>th</sup> when the 12<sup>th</sup> falls on a weekend or public holiday)**, in order for these changes to be reflected in the following month's publication.
- Keep a copy of the original form for your files. If mailing the notification instead of faxing or emailing, please make copies of your completed form and send to both PHARMAC and the Pharmacy Guild.



PHARMACY GUILD OF NEW ZEALAND INC

The Pharmacy Guild of New Zealand Inc  
PO Box 27 139 Wellington 6141  
Phone (04) 802 8200, Fax (04) 384 8085  
Email: [info@pharmacode.co.nz](mailto:info@pharmacode.co.nz)

**PHARMAC**  
Pharmaceutical Management Agency

PHARMAC  
PO Box 10 254 Wellington 6143  
Phone (04) 460 4990, Fax (04) 460 4995  
Email: [schedule@pharmac.govt.nz](mailto:schedule@pharmac.govt.nz)

Service Développement Fareva Amboise	Couleurs	Autres
<b>NARDIL 15mg B60</b> <b>8712093</b> <b>Plan E 602-2B</b> <b>38,1 x 88,9 mm</b>	<b>NOIR</b>	Vernis/ Varnishi
	<b>PMS 661 C</b>	Varnis 50% / 50% Varnishi
		<b>Version 4</b>
		<b>25/08/2017</b>

Document préparé par : A.S.Laloux

MONOAMINE OXYDASE INHIBITEUR.  
**Dosage initial:** 1 tablette (15 mg) 3 fois par jour, 1ère phase de traitement: 60 à 90 mg/jour en divided doses. Maintenance: 1 tablette par jour. **Pharmacie:** dispense with consumer information.  
**Stock between 15 °C and 30 °C. Protect from heat and moisture.**  
 INHIBITEUR DE LA MONOAMINE OXYDASE. **Dosage initial:** 1 comprimé (15 mg) 3 fois par jour. Première phase du traitement: 60 à 90 mg/jour en plusieurs prises. Entretien: 1 comprimé par jour. **Pharmacie:** fournir les renseignements aux patients.  
**Conserver entre 15 °C et 30 °C. Craint la chaleur et l'humidité.**

**Pr** DIN 00476552  
**Nardil®**  
 PHENELZINE SULFATE TABLETS U.S.P. / COMPRIMÉS DE SULFATE DE PHÉNELZINE, USP  
**15 mg** phenelzine sulfate  
 60 tablettes / comprimés

ERFA 8250 Decarie Montreal QC H4P 2P5

\*T.M.M.C. de Erie Canada 2012 Inc. Product Monograph available on request. Monographie de produit disponible sur demande.

00892035301254  
**C32762**

LOT XXXXXXXX  
 EXP MMM-YYYY



6pts

**Pr** 5pts  
 9,66pts  
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 5,08pts  
 ERFA 4,32pts

5,08pts

4pts  
 6pts

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Lena Potvin Digitally signed by  
 Assurance Lena Potvin  
 Qualité Assurance Qualité  
 Date: 2017.08.25  
 10:25:10 -04'00'



# Memorandum for Consideration by the Director of Operations under Delegated Authority

**To:** Director of Operations  
**From:** Manager, Pharmaceutical Funding  
**Date:** April 2019

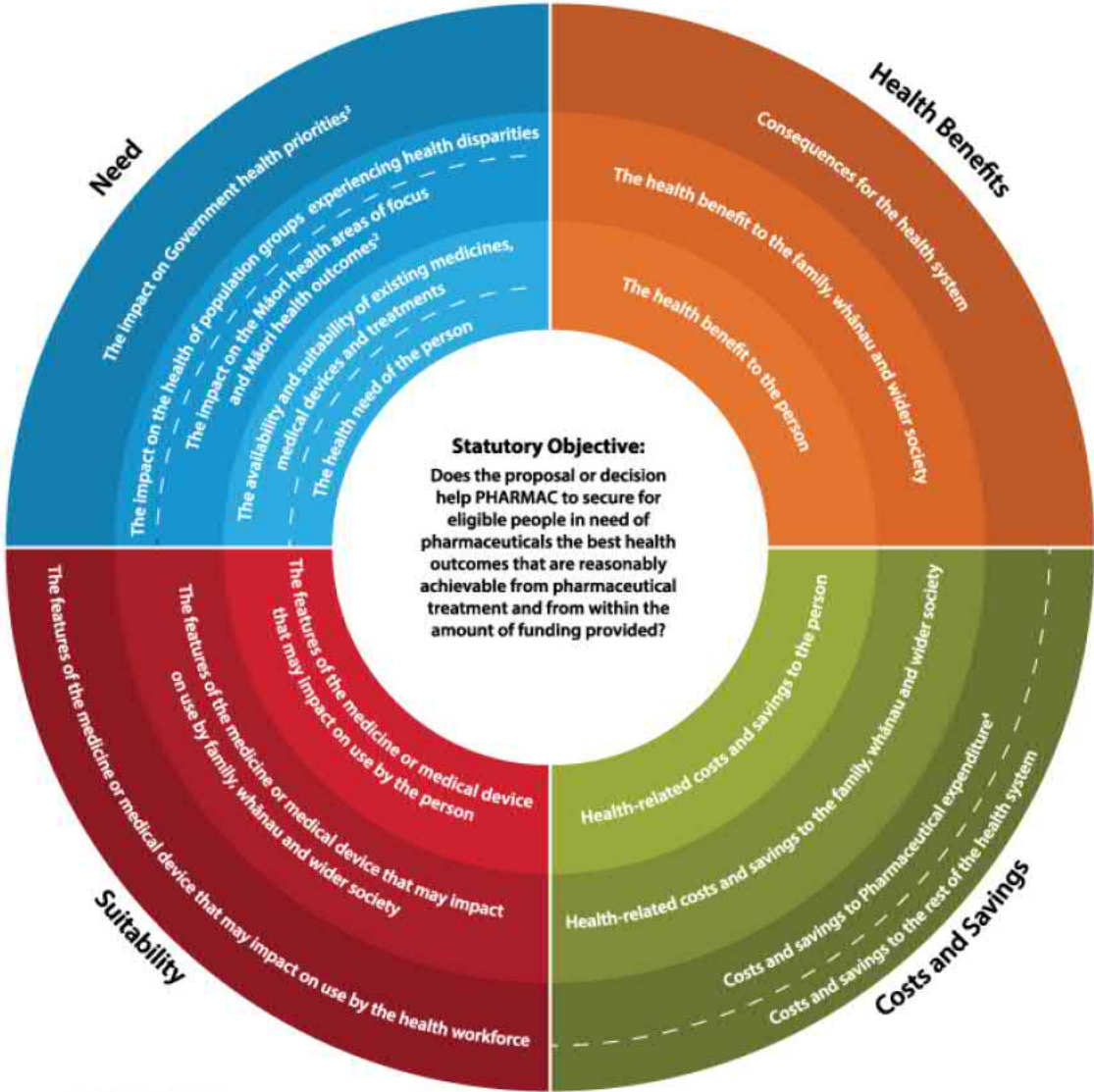
## Minor Schedule Changes

Each proposal in this paper is a separate transaction. Proposals contained in this paper, and the financial impact to the Pharmaceutical Budget and to other DHB costs of each, are listed below:

Description	Financial impact		
	5 year NPV @ 8% discount		
	CPB		Other financial impacts
	Community	DHB Hospital	
[REDACTED]			
[REDACTED]			
[REDACTED]			
[REDACTED]			
[REDACTED]			
Phenelzine Sulphate (Nardil)- price increase	Nil	Nil	Nil
[REDACTED]			
<b>TOTAL</b>	(\$184,000)	(\$16,000)	[REDACTED]

**Factors for Consideration**

This paper sets out PHARMAC staff’s assessment of the proposals using the Factors for Consideration in the [Operating Policies and Procedures](#). Some Factors may be more or less relevant (or may not be relevant at all) depending on the type and nature of the decision being made and, therefore, judgement is always required. The decision maker is not bound to accept PHARMAC staff’s assessment of the proposal under the Factors for Consideration and may attribute different significance to each of the Factors from that attributed by PHARMAC staff.



**Footnotes**

- <sup>1</sup> The person receiving the medicine or medical device must be an eligible person, as set out in the [Health and Disability Services Eligibility Direction 2011](#) under Section 32 of the [New Zealand Public Health and Disability Services Act 2000](#).
- <sup>2</sup> The current Māori health areas of focus are set out in PHARMAC's [Te Whaioranga Strategy](#).
- <sup>3</sup> Government health priorities are currently communicated to PHARMAC by the Minister of Health's [Letter of Expectations](#).
- <sup>4</sup> Pharmaceutical expenditure includes the impact on the Combined Pharmaceutical Budget (CPB) and / or DHB hospital budgets (as appropriate).
- <sup>5</sup> Please note PHARMAC's Factors for Consideration schematic currently does not explicitly refer to the health needs of family, whānau and wider society, but this factor should be considered alongside those depicted in the schematic.

## Consultation

Section 49(a) of the New Zealand Public Health and Disability Act 2000 requires PHARMAC to consult, when it considers it appropriate to do so, on matters that relate to the management of pharmaceutical expenditure with any sections of the public, groups or individuals that, in the view of PHARMAC, may be affected by decisions on those matters.

PHARMAC staff do not consider that sections of the public, groups or individuals would be significantly affected by decisions on the proposals relating to the items listed as numbers 1-7 in the executive summary above and do not consider that consultation is necessary or appropriate on those items, because:

- adequate funded alternatives would remain listed on the Pharmaceutical Schedule;
- the proposals in this paper seek to ensure the Pharmaceutical Schedule listings reflect the intent of previous decisions (for which consultation occurred);
- the proposals do not result in any additional financial expenditure;
- the proposals would result only in improvements to procurement, dispensing, subsidy and claiming mechanisms; and/or
- The proposals are a necessary response to circumstances beyond PHARMAC's control, or are consequential to a decision already taken.

It is therefore recommended that, having regard to the decision making framework set out in PHARMAC's Operating Policies and Procedures you exercise your delegated authority and:

**resolve** that consultation on the proposals in this paper was not necessary or appropriate.

## Glossary of terms and abbreviations

The terms and abbreviations used in this paper are set out in the attached/linked document below.



Glossary of Terms.obr

1. New Listings

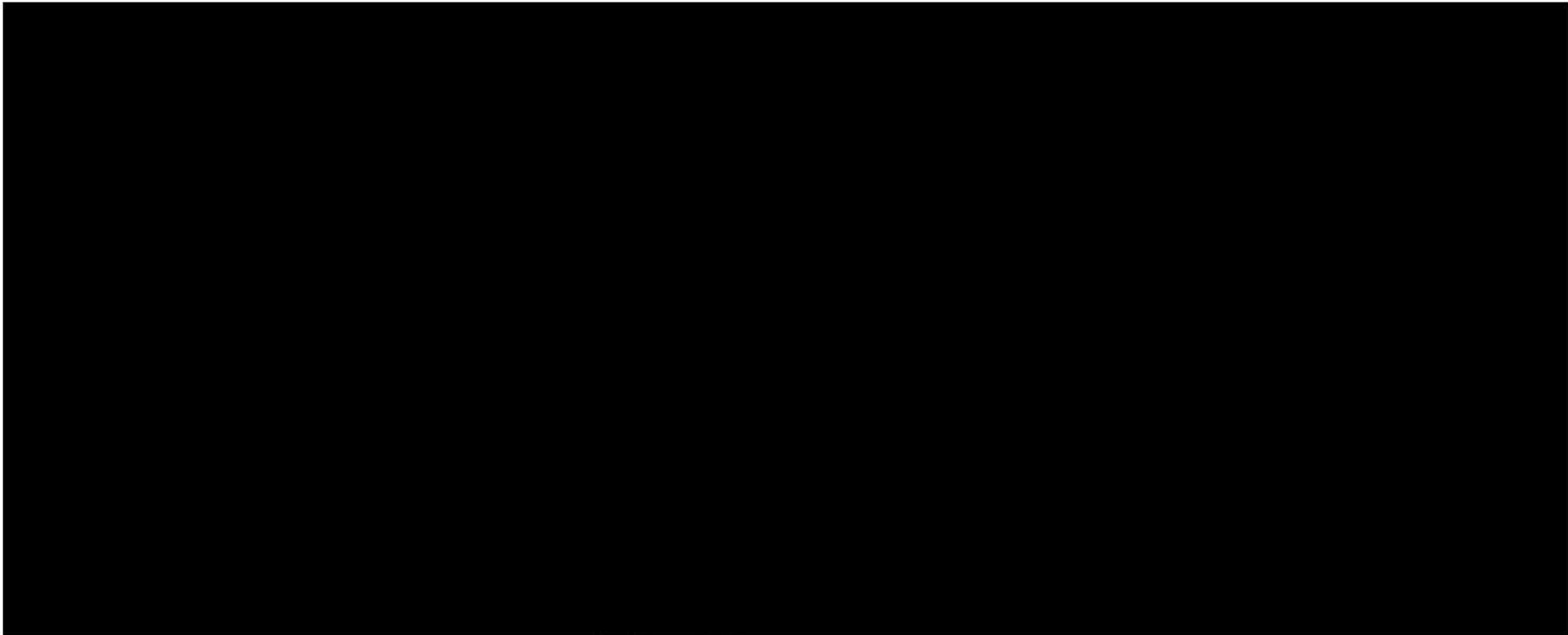
Chemical & Presentation (Brand)	Pack Size	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

RELEASED UNDER THE OFFICIAL INFORMATION ACT

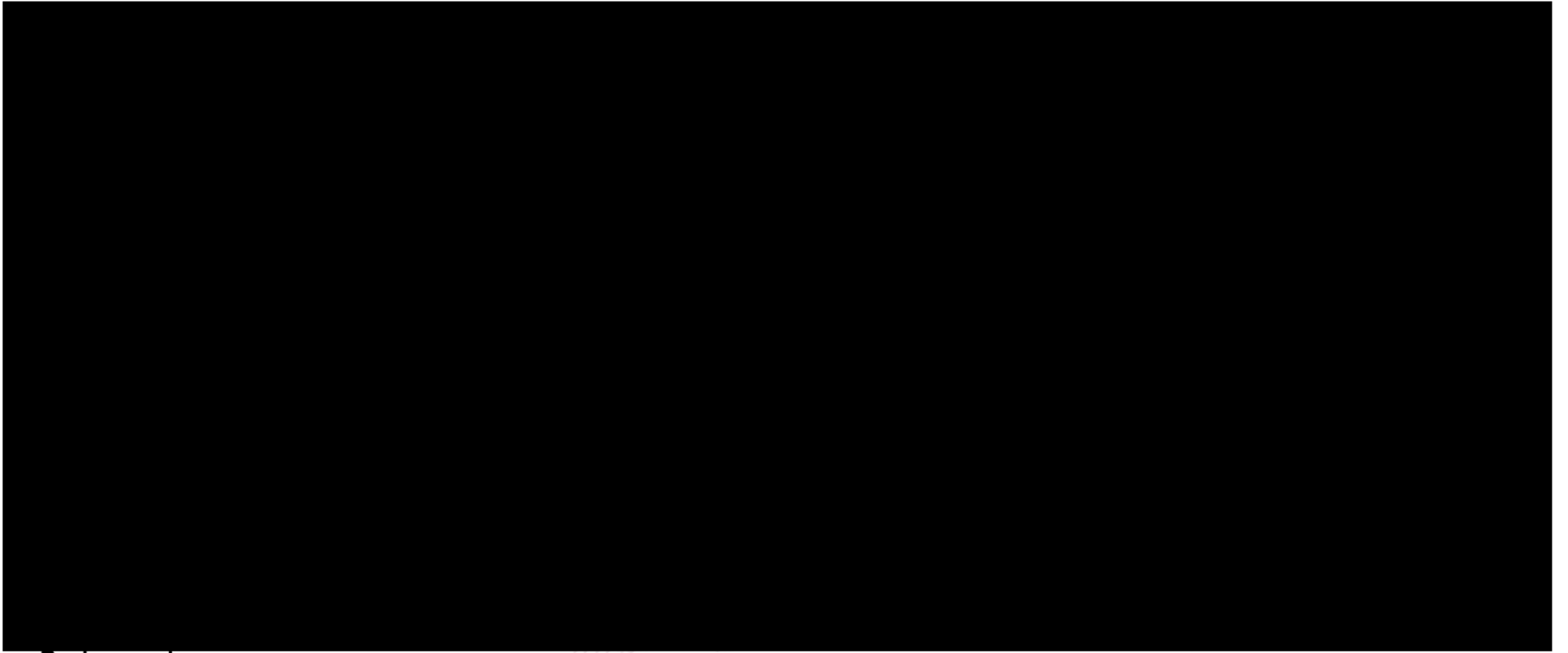
Chemical & Presentation (Brand)	Pack Size	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	
						<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p>
						<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p>

Chemical & Presentation (Brand)	Pack Size	Proposed subsidy (& price)	List date & section(s) of Pharmaceutical Schedule	Financial Impact CPB <sup>1</sup> [other financial impact <sup>1</sup> ]		Background & Analysis
				Community	DHB Hospital	

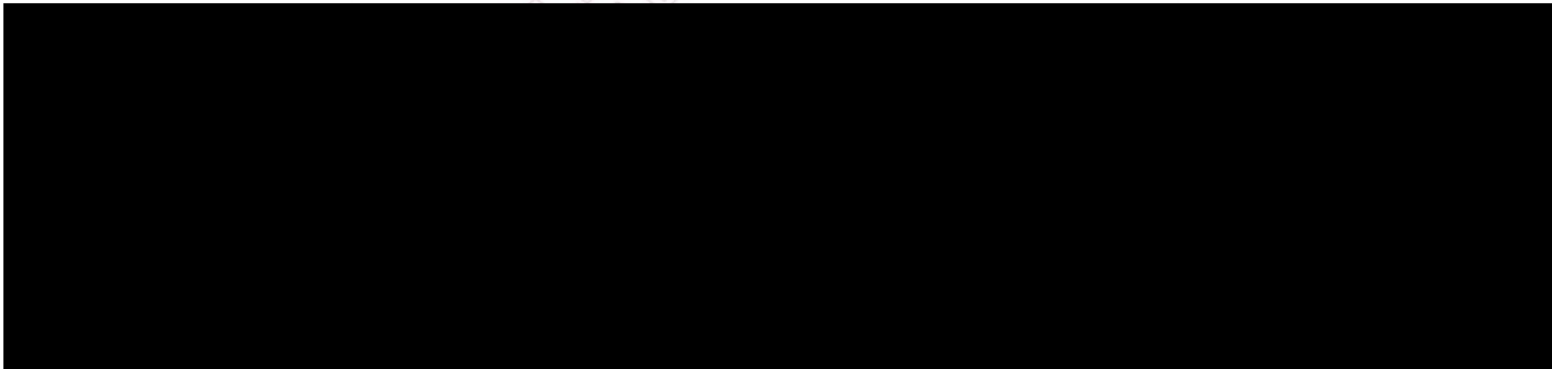
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RELEASE  
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Background





**5. Phenelzine Sulphate (Nardil)- price increase**

**Recommendations**

It is recommended that having regard to the decision-making framework set out in PHARMAC's Operating Policies and Procedures you exercise your delegated authority and:

**resolve** to amend the price and subsidy approved in the May 2019 MSC as follows (changes in bold and strikethrough):

<b>Chemical</b>	<b>Presentation</b>	<b>Brand</b>	<b>Pack size</b>	<b>Price and subsidy</b>
Phenelzine sulphate	tab 15 mg	Nardil S29	60	<del>\$57.00</del> <b>\$70.80</b>

## Background

Nardil is supplied by Link Healthcare under the terms of the agreement dated 14 August 2008. In February 2019 Link recalled batches of Nardil in New Zealand and other markets. Further, unaffected stock was coincidentally impacted by a weather event in Sydney. While there was no out of stock at that time, Link now have a flow on supply shortage as it rebuilds stock levels, expected to be for approximately 1 month.

Link propose to supply an alternative brand of Nardil, under Section 29. The stock is packaged for the Canadian market. It would not be eligible for a labelling exemption due to difference in the excipients.

Nardil is indicated for major depression and is often used last line. It is dispensed to approximately 120 patients.

There would be no impact on the CPB as this is only a correction to the May 2019 MSC minute. The impact to the CPB, DHB Hospital and other financial impacts was assessed in the November 2018 paper and took effect 1 April 2019.

This change was included in the May 2019 MSC minute but used the incorrect list price to calculate the pro rata price for a package of 60 tablets. The price was increased from \$95.00 for 100 tablets to \$118 for 100 tablets effective 1 April 2019. This was in the November 2018 minute and the schedule change was effective 1 April 2019.

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