

PARTICIPANT INFORMATION SHEET AND CONSENT FORM (Part A: Single Ascending Dose)

Short Title:	A Study to Evaluate PX578 in Healthy Adults
Protocol Number:	PX578-001
Sponsor:	Pretzel Therapeutics Inc. 1601 Trapelo Road, Waltham, MA, 02451, USA
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Ethics Number:	2024 FULL 21892

This is the first time that PX578 will be studied in humans. You will not get any health benefit from the medication used in this study; but there are risks of you having a medication reaction, injury, or illness.

You are invited to take part in a clinical research study. This study will test an experimental medication, named PX578, that may potentially be used for treating people with mitochondrial disease. PX578 is an investigational product because it has not been approved by the New Zealand Medsafe or other medication regulatory authorities.

There are multiple parts to this study, and you are being asked to take part in Part A. This Participant Information Sheet will help you decide if you'd like to take part. It sets out why we are doing the study, what your participation would involve, what the benefits and risks to you might be, and what would happen after the study ends. We will go through this information with you and answer any questions you may have. We expect this will take about 30-60 minutes. You do not have to decide today whether or not you will participate in this study. Before you decide, you may want to talk about the study with other people, such as family, whānau, friends, or healthcare providers. Feel free to do this.

Whether or not you take part is your choice. If you don't want to take part, you don't have to give a reason. If you do want to take part now, but change your mind later, you can pull out of the study at any time.

If you agree to take part in this study, you will be asked to sign the Consent Form on the last page of this document. You will be given a copy of both the Participant Information Sheet and the Consent Form to keep.

Please make sure you have read and understood all the pages of this document including the consent form.



1 WHY ARE WE DOING THE STUDY?

1.1 Purpose

PX578 is being developed for treating people with primary mitochondrial disease. Mitochondrial diseases are genetic disorders that are caused by mutations in the DNA (code) that impact your mitochondria. The mitochondria are parts of the cell important for producing energy for the body. People with mitochondrial disease have trouble producing energy, this often means that their organs can't function properly. Symptoms for mitochondrial disease include weakness, fatigue, developmental delays and vision or hearing loss. In New Zealand approximately 1 in 20,000 people have mitochondrial disease.

PX578 works by activating an enzyme (POL γ) that is responsible for mitochondrial DNA replication. It is hoped that by increasing the number of mitochondrial DNA copies, the amount of energy that the body can produce will increase. This may be an effective treatment for mitochondrial disease.

This study is made up of three parts, a single ascending dose (Part A), multiple ascending doses (Part B) and an analysis of the effect of food with PX578 (Part C). You are being asked to take part in Part A.

The purpose of Part A of this study is to:

- Evaluate how safe and well tolerated PX578 is, in healthy adults.
- Measure levels of PX578 in the blood over time, following a single dose.
- Measure the body's response to a single dose of PX578.

1.2 Study Design

Approximately 120 healthy adults will take part in this study. Approximately 48 of these will enrolled to Part A, another 48 in Part B and an additional 24 in Part C. Part A of the study requires a 3-night stay at the New Zealand Clinical Research (NZCR) unit, and 1 follow up scheduled clinic visit.

This is a randomised, blinded, placebo-controlled study:

<u>Randomised</u> means that the study medication you take (PX578 or placebo) will be assigned randomly (by chance).

<u>Blinded</u> means that neither you nor your study doctor will know whether you will be receiving medication or placebo. In an emergency, the study doctor can find out what you are receiving.

Every person in the study will receive either a single dose of PX578 or placebo (a substance that looks like PX578 but contains no active medication). Each dose will be given by mouth, with a glass of water.

6 dose groups (cohorts) are planned for the study. The group you are assigned to will depend on when you join the study. Details for the dosing groups are as follows:

Cohort	Dose of PX578 or Placebo	Frequency
1	100 mg	
2	250 mg	
3	500 mg	One oral dose on Day 1
4	TBD*	
5	TBD*	



	6	TBD*	
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TBD = To Be Determined

In each dose group, two people will be dosed first (one will receive PX578, and one will receive placebo). The rest of the group will be dosed only if there are no safety concerns after 48 hours of monitoring. In the rest of each dose group, 5 people will receive PX578 and 1 will receive placebo. Whether you receive active investigational medicine or placebo will be assigned randomly (by chance). If you are part of the sentinel cohort you have a 1 out of 2 chance (50%) of receiving PX578. If you are in the remainder of the cohort you will have a 5 out of 6 (83 %) chance of receiving PX578.

Dose groups will be enrolled in order. You will be told which dose group you will be in. You will also be told if any changes are made to the planned dose for your group.

Blood samples and other tests to measure investigational medicine levels and effects on the body will be collected at specific time points during the study, your safety will be monitored, and any changes in your health will be recorded.

1.3 Nature and Sources of Funding of the Study

This research project is being conducted and funded by the Sponsor, Pretzel Therapeutics Inc., and locally sponsored in New Zealand by Avance, a Contract Research Organisation (CRO) which help conduct and monitor the study in New Zealand.

By taking part in this research study, you agree that data generated from your assessments throughout the study, will be provided to the Sponsor. The knowledge gained from this data may lead to new discoveries, which would assist them in obtaining approval for a new medication and benefit the sponsor financially. There would be no financial benefit to you from these discoveries.

New Zealand Clinical Research (NZCR) will receive a payment from Pretzel Therapeutics Inc., for undertaking this research project.

No member of the research team will receive a personal financial benefit from your involvement in this research project (other than their ordinary wages).

1.4 Approval by Ethics Committee.

This study has been reviewed by an independent group of people called a Health and Disability Ethics Committee (HDEC). The ethical aspects of this research project have been approved by the <u>Northern A</u> <u>Ethics Committee.</u>

The scientific aspects of this study have been approved by the Standing Committee on Therapeutic Trials (SCOTT).

A description of this clinical study will be available on http://anzctr.org.au. This website will not include information that can identify you. At most, the website will include a summary of the results. You can search this website at any time.

2 WHAT WOULD YOUR PARTICIPATION INVOLVE?

Participation in this study will last up to approximately 5 weeks, including a screening, dosing, and followup period. If you wish to participate in this study, you will be asked to sign this consent form before any study assessments can be performed.



The details of the study and tests performed are discussed and shown below. During the screening period, assessments will be done to check whether the study is suitable for you. The day you have your dose of PX578 (or placebo) is called Day 1 and all other days are counted back or forward from this.

The results of the screening assessments will determine whether or not you can take part in the study. However, even if all your results are normal, you may not be guaranteed a place. We may screen more participants than we need and so you may be asked to be a reserve. This will mean you will be asked to come to the clinic and undergo the tests and procedures until the point that we have enrolled enough eligible participants. You will then be discharged and where possible we will try to include you in a later group.

2.1 Tests and Procedures



Collection of Your Information

At your Screening visit, the study staff will record your demographic information, such as your name, age, sex, race/ethnicity, address and phone number. The study doctors will also ask you questions about your health, including medical history, medications you are taking, social history (including smoking, alcohol and medication use), and contraception.



Physical Examination:

During the study, the doctor will perform a physical examination to check your health. Your height and weight will also be measured to calculate that your Body Mass Index (BMI) is within range for the study.



Electrocardiogram (ECG):

An ECG measures the electrical activity of your heart, using 12 wires attached to your chest and limbs with sticky pads.



Vital Signs:

Vital signs include recordings of your pulse, blood pressure, breathing rate, and temperature.



Blood and Urine Samples:

At clinic visits, blood samples are taken by direct vein puncture. On the day you receive your investigational medicine dose, a cannula (thin plastic tube) will be inserted into a vein in your arm to take blood samples. If your cannula stops working, direct vein punctures will be used. Blood and urine samples will be collected:

- To monitor your safety (blood cells, clotting, chemistry, fats, liver function, kidney function)
- To check whether you may be pregnant (for people who are biologically female)
- To check whether you are post-menopausal (for people who are biologically female)
- To screen for recreational drugs such as cannabis, methamphetamine, and opiates
- To screen for specific infections (HIV, Hepatitis B, Hepatitis C)
- To measure the amount of PX578 or parts of PX578, in the blood (pharmacokinetics and metabolites in plasma)



Alcohol Breath Testing

You will be screened for the presence of alcohol via a breathalyser. You will blow into the mouthpiece for a few seconds to measure the presence of alcohol on your breath.



COVID-19 testing

During the study, you may be required to have COVID-19 testing done at screening and on Day -1. You will be informed of these tests by study staff.



Study Schedule

Period	Screening		In Clini	c Period		Follow Up
Study Day	-28 to -1	-1	1	2	3	8 EOS ª
Questions about my health	Х	Х	Х	Х	Х	Х
Admission to the unit		Х				
Discharge from the unit					Х	
Physical Exam ^b	х	Х	Х	Х	Х	Х
Vital Signs	х	Х	Xe	Х	Х	Х
ECG	х	Х	Xe	Х	Х	
BMI (Height ^c & Weight)	х	Х				Х
Dose Administration			Х			
Blood Sampling	х	Х	Х	Х	Х	Xd
Urine Sampling	х	Х	Х	Х	Х	Xd
Pregnancy Test	Х	Х				Х
Alcohol Breath and Urine Drug Test	Х	Х				
COVID-19 Test	Х	Х				

^a EOS = End of Study

^b A full physical exam will be completed at Screening and Day -1, all others will be symptom directed

^c Height will only be measured at Screening

^d Blood and urine sampling will only be done at the End of Study Visit if the study doctor considers it is necessary.

^e Vitals and ECGs will be done multiple times on Day 1.



2.2 Who Can Take Part in this Study?

To ta	To take part in this study you must:		
>	Be able to give informed consent and follow the study procedures.		
\checkmark	Be aged 18 – 55 years, inclusive.		
\checkmark	Have a BMI (Body Mass Index) between 18.0 kg/m ² – 32.0 kg/m ²		
\checkmark	Weigh at least 45 kg		

You cannot take part in this study if you:				
×	Are pregnant or breastfeeding			
×	Have taken any prescription medication (excluding contraceptives) or over the counter medication (this includes herbal supplements, protein powders or creatine) within 7 days prior to dosing. Paracetamol, ibuprofen, vitamins or minerals are allowed to be taken in the study.			
	If you are unsure, please speak with the study doctor for further clarification.			
×	Have a history of drug or alcohol abuse.			
×	Have a history of a significant medical problem, mental health problem or severe allergy, including significant infection within 4 weeks prior to dosing, or cancer within 3 years prior to screening (study staff can discuss exceptions).			
×	Have been hospitalised within 3 months prior to screening			
×	Have participated in a clinical trial within at least 30 days prior to dosing			
×	Have had a vaccine within 30 days prior to dosing (study staff can discuss exceptions).			
×	Have a positive screening test for Hepatitis B/C or HIV.			
×	Smoke more than 5 cigarettes (or equivalent in vaping products) per day			

If you think that any of the above applies to you, or you have one of the conditions described, please discuss these with your study doctor for more thorough assessment to see if you can take part in this study or not. Additionally, there are other criteria that you will need to meet in order to be eligible for the study, but the study doctor will discuss this with you at your screening visit.

2.3 Study Instructions

It is important that you follow the instructions you are given and attend all scheduled clinic visits. It is also possible that the study doctor may schedule extra visits or tests for you, if considered necessary.



In the event that an assessment is not performed on the day outlined within the Schedule of Activities within this document, the assessment may be performed at your next study visit.

You will be given a Participant Identification Card if you participate in this study, stating the name of the study and the study doctor's contact information. This card should be carried with you at all times so that you can contact the study doctor at any time and so you can show it to any other doctor, dentist, or pharmacist that you might visit while in this study.

At each visit, the study staff will ask you questions about your health and the medications you are currently taking. You should always report any changes in your health, unusual feelings, or symptoms to the study staff. It is also important that you do not start, stop, or make changes to any of the medications you are currently taking without first discussing this with your study doctor.

When you are an inpatient with us, we will provide you with all of your meals. Meals play an important role in clinical trials due to their relationship with metabolism of the investigational medicine (the way that the medication is processed and broken down by the body). By signing this document, you are agreeing that you will be compliant with all meal requirements on this study. In certain cases, we are able to cater for dietary requirements, please discuss this with the study team before joining the study.

Restrictions:

- You will not be able to smoke or use any nicotine containing products for at least 72 hours prior to admission, during your inpatient stay, and for the remainder of the study.
- You must not consume any caffeine containing products (i.e., coffee, tea, soda) for at least 24 hours prior to admission through to the end of the study.
- You must not consume Seville oranges, pomelos, grapefruits, or their juices from 14 days prior to admission and for the remainder of the study.
- You must not consume charcoal-grilled meats, poppy seeds or cruciferous vegetables (e.g. cauliflower, cabbage, broccoli, kale, Bok choy, or similar leafy greens) for 48 hours prior to admission through to the end of the study.
- You must not donate blood for at least 6 weeks prior to dosing and during the study period.
- You must not consume any alcohol for at least 48 hours prior to admission, and whilst you are an inpatient. You must also not consume alcohol until after your follow up visit.
- You must be fasted (no food, only water) for at least 10 hours prior to dosing and 4 hours after dosing. Study staff will remind you that you need to be fasted. Water will be restricted 1 hour prior to and 1 hour after dosing.
- You must refrain from strenuous exercise from admission through to the end of the study

At admission, you will have your bag checked for prohibited items (e.g., drinks or foods). Any prohibited items will be removed and returned to you on discharge from the unit.

3 WHAT ARE THE POSSIBLE BENEFITS, COSTS AND RISKS TO YOU PARTICIPATING?

3.1 Benefits

This study is not designed to provide you with any therapeutic benefits. The information from this study might help to develop better treatments in the future for mitochondrial disease.

3.2 Reimbursement and Costs

All tests required to be done for this study will be paid for by Pretzel Therapeutics Inc., and there will be no cost for you to participate in this study. You will still have to pay for the costs of your regular medical care that are not a part of this study.

You will be reimbursed the sum of \$2,500 (before tax), following the final study visit. However, the timing of reimbursement is flexible and can be adjusted to suit your needs – please discuss this with Pretzel Therapeutics Inc., PX578-001



study staff if you have any concerns regarding your reimbursement. **We are required to deduct withholding tax at the applicable rate you have declared in the IR330C form**. You will be responsible for any other tax obligations (e.g., ACC). If you are GST registered, it may be possible for you to submit a GST invoice. Contact <u>paymentforms@nzcr.co.nz</u> if you would like to discuss this further.

The payment will be made after you complete the study, to cover your time and inconvenience. If you are receiving a benefit or allowance, your usual payments may be affected. Your tax statement will state that you were paid from your dosing day through to your final study visit.

To be able to receive reimbursement as part of this study you must be eligible to work in NZ (e.g. as a NZ resident, NZ citizen, or with the appropriate work visa) for the entire duration of the study. If you are no longer eligible to work in NZ during the study, you will be withdrawn from the study and your reimbursement will be a pro-rata of the total amount.

If you leave the study of your own choice or are released from the study for non-medical reasons, you will receive a partial reimbursement (a pro-rata reimbursement) according to how far you contributed to the study.

Full reimbursement requires completion of all visits according to study requirements. If you are withdrawn from the study for medical reasons, having received trial medication, you will receive reimbursement in full.

You will also be reimbursed for travel and parking (if you use personal transport) or you can use uber or taxi for your study visits, which can be arranged and paid for by NZCR if you live in the metropolitan area. Travel reimbursement will occur throughout the study as needed. Please discuss arranging study transport with the site study staff. If you live outside this area, we will discuss your travel costs individually.

In order to meet dosing requirements, additional (reserve) participants may be admitted to the unit. If you are invited to attend the study as a reserve, you will be asked to either; admit to the unit on Day - 1 just for the day (**day reserve**) or admit to the unit on Day -1 and stay overnight (**night reserve**). If you are a reserve, and you are not required to be dosed, you will be reimbursed for your time and inconvenience (day reserve = \$150 or night reserve = \$350).

If you complete the screening visit assessments and are found not eligible for the study, you will not receive any reimbursement.

3.3 Possible Risks and Disadvantages?

Medications often cause side effects. You may have none, some or all the effects listed below, and they may be mild, moderate, or severe. There may also be unknown side effects from taking PX578 alone or with other medications you may be taking. If you have any of these side effects, or are worried about them, talk with your study doctor. Your study doctor will also be looking out for side effects.

What are the Risks or Side Effects of PX578?

This is the first time that PX578 is being tested in humans and as such there is no human experience available to identify all of the risks of PX578.

Animal studies have been done with PX578 to try and predict what type of side effects might occur in people. However, animal studies do not always predict human responses to medications. When PX578 was given to animals at doses higher than the doses that will be given in this study, no adverse (harmful) side effects were seen. The below effects were observed in animal studies, all of which were considered to be mild and reversible (these are also rare, as there is a less than 2% chance of occurrence):



- Body weight loss
- Reduction in the number of red blood cells
- Increase in fibrinogen (blood protein that helps blood clot) and APTT (how long it takes blood to clot)

The doses planned for this study in people are much lower than any of the doses given to animals. The study will begin with low doses of PX578 that will be gradually increased if the medication is well tolerated. However, as noted above, animal studies do not always predict human response to medications. Among the side effects that could occur, some could be life-threatening.

As with other medications, PX578 may cause an immune reaction or allergic reaction. Symptoms may include rash, flushing, itching, sneezing or runny nose, abdominal pain, diarrhea, swelling of face, tongue or throat, dizziness, lightheaded or fainting, trouble breathing, irregular or racing heart rate, and seizures. These reactions can be life-threatening / fatal. If you have a skin reaction or other adverse event, the study doctor may take a photograph to document the event.

Because PX578 has never been tested in humans, there is always a risk of some unexpected serious, life-threatening side effects occurring following the administration of a new experimental treatment. It is unknown whether some unexpected serious or life-threatening side effect could occur with PX578. You will be monitored closely for them and treated if they occur.

What are the Risks or Side Effects of Study Procedures?

Blood Sample Collection & Cannulas:

Risks include bruises, swelling with itching, and slight bleeding. The area may become inflamed. In rare cases, it may result in a blood clot, an infection or nerve damage. As needles can cause pain, you may feel light-headed or faint.

ECG Tests:

Sometimes the sticky pads used to attach the ECG leads can cause skin irritation (redness / itchiness).

Physical Examination:

During this examination you may be asked to remove some items of clothing so a full examination can be done. You can request a chaperone to be with you at the time of the physical examination, please ask one of our research nurses.

3.4 Contraception

Reproductive Risks for Sexually Active Participants of Child-Bearing Potential

The effects of PX578 in pregnancy and breastfeeding are unknown, but there is a risk it <u>may cause birth</u> <u>defects or foetal deaths</u>, and/or be passed on in breast milk. If you are pregnant or breastfeeding, you cannot take part in this study.

If you are sexually active and of child-bearing potential (able to become pregnant), it is very important that you do not become pregnant during this study. A person of child-bearing potential is any premenopausal person who may become pregnant. If you are unsure if this applies to you, please check with the study doctor before you start the study medication. **You must use one of the methods of contraception listed below**, from at least screening through until at least 90 days after your dose of investigational medicine:

A highly effective method (less than 1 pregnancy per 100 people using the method for one year) e.g.:

- Intra-uterine device (IUD) containing either copper or levonorgestrel (e.g., Mirena®)
- Sterilisation (e.g., , bilateral tubal ligation ('clipping or tying tubes' or hysterectomy)
- Pretzel Therapeutics Inc., PX578-001 Participant Information Sheet and Consent Form (Part A) New Zealand Clinical Research Version 1.1, 03-Mar-2025



An oral hormonal method of contraception (e.g., pill) is not an acceptable form of contraception for this study.

You and your partner must also use a male condom (unless you have undergone surgical sterilisation within the last 6 weeks), from your from at least screening through until at least 90 days after your dose of investigational medicine.

Please note that barrier methods alone are not highly effective methods of birth control.

Total abstinence from heterosexual intercourse during the entire period of risk associated with the investigational medicine (from at least screening through until 90 days after your dose) is considered an acceptable form of contraception if this is in line with your preferred and usual lifestyle.

If you are unsure which method of birth control you are using (or want to start using) and whether it is acceptable for this study, please ask the study doctor for more information.

You must also agree to not donate eggs, from at least screening through until at least 90 days after your dose of investigational medicine:

If you do become pregnant during the study and for 90 days following, you must tell the study doctor as soon as possible. If you do become pregnant you will be asked to sign a separate consent form, to allow the Sponsor to collect information about your pregnancy and the outcome of your pregnancy.

Reproductive Risks for Sperm in Sexually Active Participants

The effects of PX578 if passed on through semen are unknown, but there is a risk it <u>may cause birth</u> <u>defects or foetal deaths</u>. **You are responsible for informing your sexual partner of these possible risks.**

If you are sexually active and have any partner who is of child-bearing potential (meaning a partner who may become pregnant) it is very important that you use contraception during this study. <u>You and your partner must use one of the contraception options listed below</u> for participants of child-bearing potential, from at least screening through until at least 90 days after your dose of investigational medicine.

A highly effective method (less than 1 pregnancy per 100 people using the method for one year) e.g.:

- Implant contraceptive (e.g., Jadelle®)
- Intra-uterine device (IUD) containing either copper or levonorgestrel (e.g., Mirena®)
- Sterilisation (e.g., vasectomy, bilateral tubal ligation ('clipping or tying tubes' or hysterectomy)

OR an effective method (5-10 pregnancies per 100 people using the method for one year) e.g.:

• Injectable contraceptive (e.g., Depo Provera)

An oral hormonal method of contraception (e.g., pill) is also acceptable.

You and your partner must also use a barrier method of contraception (unless you or your partner have undergone surgical sterilisation), from at least screening through until at least 90 days after your dose of investigational medicine.

Please note that barrier methods alone are not highly effective methods of contraception.



Total abstinence from heterosexual intercourse during the entire period of risk associated with the investigational medicine (from screening until at least 90 days after your dose) is considered an acceptable form of contraception if this is in line with your preferred and usual lifestyle.

If a pregnancy occurs during or 90 days after the study, you must report this to the study doctor as soon as possible. Your partner will be asked to give consent for their information and their infant's information to be collected for monitoring purposes.

You must also agree not to donate sperm, from screening until at least 90 days after your dose of the investigational medicine.

4 WHAT WOULD HAPPEN IF YOU WERE INJURED IN THE STUDY?

As this research study is for the principal benefit of its commercial sponsor Pretzel Therapeutics Inc., if you are injured as a result of taking part in this study you **won't** be eligible for compensation from Accident Compensation Corporation (ACC).

However, Pretzel Therapeutics Inc., has satisfied the **Northern A** Health and Disability Ethics Committee that approved this study that it has up-to-date insurance for providing participants with compensation if they are injured as a result of taking part in this study.

New Zealand ethical guidelines for intervention studies require compensation for injury to be at least ACC equivalent. Compensation should be appropriate to the nature, severity and persistence of your injury and should be no less than would be awarded for similar injuries by New Zealand's ACC scheme.

The sponsor has voluntarily committed to providing compensation in accordance with guidelines that they have agreed between themselves, called the Medicines New Zealand Guidelines (Industry Guidelines). These are often referred to for information on compensation for commercial clinical trials. There are some important points to know about the Industry Guidelines:

- On their own they are not legally enforceable and may not provide ACC equivalent compensation.
- There are limitations on when compensation is available, for example compensation may be available for more serious, enduring injuries, and not for temporary pain or discomfort or less serious or curable complaints.
- Unlike ACC, the guidelines do not provide compensation on a no-fault basis:
- The Sponsor may not accept the compensation claim if:
 - Your injury was caused by the investigators, or;
 - \circ $\;$ There was a deviation from the proposed research plan, or;
 - Your injury was caused solely by you.

An initial decision whether to compensate you would be made the by the sponsor and/or its insurers.

If they decide not to compensate you, you may be able to take action through the Courts for compensation, but it could be expensive and lengthy, and you might require legal representation. You would need to be able to show that your injury was caused by participation in the trial.

You are strongly advised to read the Industry Guidelines and ask questions if you are unsure about what they mean for you:

https://www.medicinesnz.co.nz/fileadmin/user_upload/2015_Medicines_New_Zealand_Compensation Guidelines_FINAL.pdf

If you have private health or life insurance, you may wish to check with your insurer that taking part in this study won't affect your cover.



5 WHAT WILL HAPPEN TO MY TEST SAMPLES?

Blood and urine samples will be collected throughout the study. These samples will be used for various tests. Some of the samples will be used for regular routine blood counts and blood chemistry, to monitor your general health. All these routine samples will be sent to Awanui Laboratories or Canterbury Health Laboratories for testing and destroyed after 3 months by internationally accepted means.

All other study samples (pharmacokinetics and plasma metabolites) will be sent to a central laboratory Agilex Biolabs in Adelaide, Australia for testing and destroyed after 15 years by internationally accepted means.

The maximum amount of blood collected from each participant during the study will be up to approximately 190 mL. For comparison, a standard blood donation at a blood collection centre, is about 470 mL. Samples collected by NZCR will be identified by your study number, year of birth, initials, and sex, to allow study doctors to quickly respond to any abnormal results. Before the results of these tests are sent to the Sponsor, your identifiable information will be removed and replaced with a code.

The proposed blood tests include a screening test for HIV and for viral Hepatitis B and C. Signing the consent form means that you agree to have this testing performed. It is important to understand that a positive screening test does not necessarily mean you have the disease. Should you receive a positive screening result for HIV or either Hepatitis B or C, then the study doctors will provide initial counselling and medical advice and will assist in arranging any follow up tests that you require. HIV, Acute (newly diagnosed) and Hepatitis B/C are all 'notifiable diseases', which means that it is required by law to notify government health authorities of any new cases.

5.1 Are There Any Cultural Considerations?

You may hold sacred and shared values about your tissue samples and/or data originating from this tissue. In line with this we include data sovereignty principles in our practices and in our data management plan. These principles are in place to ensure that the data generated from this research is protected (**whanaungatanga** – relationships) and may benefit Māori now and into the future. More information on data can be found in Section 7.3 including what happens to your data, **kaitiakitanga** (protectors/guardianship) and how this impacts **whakapapa** (whānau, hapu, iwi). NZCR also honour **Kotahitanga** (collective beliefs) and ensure that participants are not discriminated based on beliefs.

If you wish to perform karakia at the time of sample collection, please let the study staff know and they can arrange this.. However, due to your samples being sent to countries outside of New Zealand, a karakia will not be able to be performed at the time of your sample disposal.

If you would like to take part in this study you may want to talk to your whānau about it as the study will impact on their whakapapa (that is any tissue and data we gather from you will include information about your whanau, hapū and iwi). If you are involved in any hapū and iwi events and have access to people who understand the impact of this research on your whakapapa you may be able to contact them as well.

There are other ways of accessing cultural support if you need it. There is a contact at the end of this form that you can ring if needed.

Cultural support is different from wanting to know about the study. In this case we can arrange for an investigator to talk to you and your whānau.

New Zealand Clinical Research is committed to meeting their Tiriti obligations by ongoing training to understand what or Tiriti responsibilities are.



6 WHAT ARE THE RIGHTS OF PARTICIPANTS IN THE STUDY?

6.1 **Participation is Voluntary**

Participation in any research project is voluntary. If you do not wish to take part, you do not have to. If you decide to take part and later change your mind, you are free to withdraw from the project at any stage. This will not affect your relationship with NZCR.

If you do decide to take part, you will be given this Participant Information and Consent Form to sign and you will be given a copy to keep.

6.2 New Information

Sometimes during the course of a research project, new information becomes available about the medication that is being studied. If this happens, your study doctor will tell you about it and discuss with you whether you want to continue in the research project. If you decide to withdraw, your study doctor will make arrangements for your regular health care to continue. If you decide to continue in the research project, you may be asked to sign an updated consent form.

Also, on receiving new information, your study doctor might consider it to be in your best interests to withdraw you from the research project. If this happens, they will explain the reasons and arrange for your regular health care to continue.

6.3 Privacy and Confidentiality and Right to Access Information Collected During the Study

What will Happen to my Information?

During this study, the study doctors, researchers, nurses and other NZCR staff will record information about you and your study participation. This includes the results of any study assessments. Information such as your name, sex, age, race/ethnicity, address and phone number will be on the demographics page for the study so we can identify you correctly at visits and contact you. This information may be used to obtain health records (detailed below) but is not supplied to anyone overseas, except your sex, race/ethnicity and age/year of birth.

If needed, **information from your hospital records and your usual doctor (GP) may also be collected**, and your GP will be notified about your participation in the study. You cannot take part in this study if you do not consent to the collection of this information.

Type of information	Where is it stored?	Who can access it?
Identifiable Information - th	nis information can be traced back to	уои
 Information collected from you Laboratory results Photographs if required for any adverse events e.g. skin reactions. 	 Paper: stored securely under restricted access at NZCR. Following study completion paper forms are transferred to a secure site and stored for 15 years, then destroyed Electronic: stored on secure NZCR servers (in New Zealand and Australia) 	 NZCR staff Your GP / usual doctor Local laboratory staff to process and report your screening and safety tests Sponsor/CRO monitors to ensure the study is run properly and data is collected accurately Representatives from the Sponsor if you make a compensation claim as a result



		 of study-related injury. Identifiable information is required to assess your claim Ethics committee, regulatory authorities, and sponsor/CRO representatives if the study or site is audited Medical Officer of Health for positive test results for a notifiable disease (i.e., COVID- 19, Hepatitis B/C, and HIV) The study doctor may share your information with other people, in the rare event of a serious threat to public health or safety, or to the life or health of you or another person OR if the information is required in certain legal situations
De-identified (coded) Inform	nation – this information is only lab	elled with your unique study ID
 De-identified information about you (sex, race/ethnicity and age/year of birth) Study assessment results are uploaded into the study database to be analysed De-identified photographs, if required (as above) 	Electronic: will be stored-on a secure platform and will be retained indefinitely. Storage will comply with local and/or international data security guidelines.	 The Sponsor, for the purposes of this study. People and companies working with or for the Sponsor, for the purposes of this study. Regulatory or other governmental agencies worldwide.
Anonymised Information - t	his information cannot be traced bac	k to you (code removed)
 All de-identified information for which the code has been removed 	 Electronic: stored on a secure sponsor-managed database 	Access not restricted

Future Research Using Your Information

Your coded information may be used for future research related to PX578 or mitochondrial disease.

This future research may be conducted overseas. You will not be told when future research is undertaken using your information. Your information may be shared widely with other researchers or companies. Your information may also be added to information from other studies, to form much larger sets of data.

You will not get reports or other information about any / some research that is done using your information.

Your information may be used indefinitely for future research unless you withdraw your consent. However, it may be extremely difficult or impossible to access your information or withdraw consent for its use once your information has been shared for future research.

Security and Storage of Your Information



During the study, your information will be stored on paper forms at NZCR and electronically on secure servers. When the study has finished, paper forms will be transferred to a secure site and stored for at least 15 years, then destroyed. De-identified information in electronic form will remain on a secure platform and will be retained indefinitely. Storage will comply with local and/or international data security guidelines.

Risks

Although efforts will be made to protect your privacy, absolute confidentiality of your information cannot be guaranteed. Even with coded and anonymised information, there is no guarantee that you cannot be identified. While the risk is currently very small, the chance that someone might access and misuse your information (for example, by making it harder for you to get or keep a job or health insurance) might increase in the future as people find new ways of tracing information.

Your coded information is being sent overseas. Other countries may have lower levels of data protection than New Zealand. There may be no New Zealand representation on overseas organisations which make decisions about the use of your information. There is a risk that overseas researchers may work with information in a way that is not culturally appropriate for New Zealanders.

Rights to Access Your Information and Results

You have the right to request access to your information held by the research team. You also have the right to request that any information you disagree with is corrected.

Please ask if you would like to access your screening and safety tests during the study. You may access other study-specific information before the study is over, but this could result in you being withdrawn from the study to protect the study's scientific integrity.

If you have any questions about the collection and use of information about you, you should ask a study doctor.

7 WHAT WILL HAPPEN AFTER THE STUDY ENDS, OR IF I WANT TO PULL OUT?

7.1 If You Decide to Withdraw

You may withdraw your consent for the collection and use of your information at any time, by informing your Study Doctor. Please notify a member of the research team before you withdraw. This notice will allow that person or the research supervisor to discuss any health risks or special requirements linked to withdrawing, such as follow up visits.

If you withdraw your consent, your study participation will end, and the study team will stop collecting information from you. Information collected up until your withdrawal from the study will continue to be used and included in the study. This is to protect the quality of the study.

7.2 Why the Study Might be Unexpectedly Stopped

This research project may be stopped unexpectedly for a variety of reasons. These may include reasons such as:

- Unacceptable side effects and safety issues
- Poor recruitment
- Poor study conduct

7.3 Results



When the research project ends the study data must be analysed, so the results of the study may not be available until about a year after the research finishes. The study doctors and/or Sponsor may decide to discuss or publish the results of the study. This may include publication in journals, presentation at conferences or other professional forums. In any publication, information will be provided in such a way that you cannot be identified. Results of the study will be provided to you after the final study report is available. If you do not wish to receive a summary of the study results when they become available, then please inform NZCR staff.



8 WHO DO I CONTACT FOR MORE INFORMATION OR IF I HAVE CONCERNS?

If you have any questions, concerns, or complaints about the study at any stage, you can contact:

Christchurch:

Dr Chris Wynne, Principal Investigator Phone: 0800 862 278 Email: twist.christchurch@nzcr.co.nz

Auckland:

Dr Rohit Katial, Principal Investigator Phone: 0800 STUDIES (0800 788 3437) Email: twist.auckland@nzcr.co.nz

If you want to talk to someone who isn't involved with the study, you can contact an independent health and disability advocate on:

Phone:	0800 555 050
Fax:	0800 2 SUPPORT (0800 2787 7678)
Email:	advocacy@advocacy.org.nz
Website:	https://www.advocacy.org.nz/

Māori cultural support is available through:

Auckland:

Ira Tātai Whakaheke

Christchurch:

Dr. Matea Gillies Mobile: 027 4105 025 Email: gillies-lamb@xtra.co.nz

Mobile: 021 0203 1167 Phone: 09 486 8320 ext 43204

The Co-Chair of the Māori Governance Ropu for

Email:

helen.wihongi@TeWhatuOra.govt.nz

You can also contact the health and disability ethics committee (HDEC) that approved this study on:

Email:hdecs@health.govt.nzPhone:0800 400 569 (Ministry of Health general enquiries)

If there is an emergency, please phone **111**

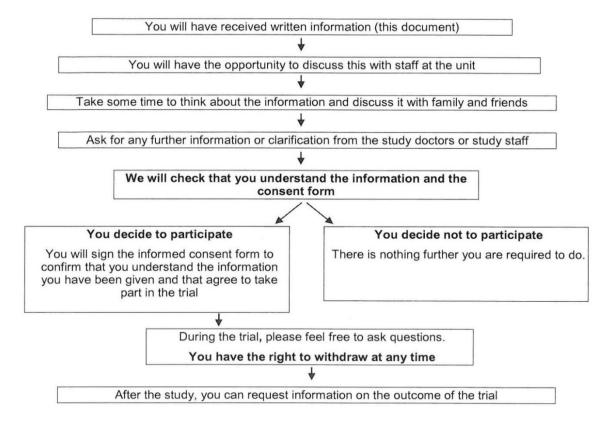


9 WHAT ABOUT ANY OTHER QUESTIONS I MAY HAVE?



10 DO I HAVE TO DECIDE STRAIGHT AWAY?

No, you do not have to decide straight away. You should take some time to consider whether or not to participate, we will be in touch in a week or so to discuss your decision. The following steps are useful in helping you reach a decision.





CONSENT FORM (PART A: SINGLE ASCENDING DOSE)

Short Title: A Study to Evaluate PX578 in Healthy Adults

Protocol Number: PX578-001

Principal Investigator:Christchurch: Dr Chris Wynne
Auckland: Dr Rohit Katial

Please let study staff know if you require an interpreter.

Declaration by participant:

- I have read the Participant Information Sheet, or have had it read to me in a language I understand, and I fully comprehend what it says.
- I have been given sufficient time to consider whether or not to participate in this study.
- I have had the opportunity to use a legal representative, whānau/ family support or a friend to help me ask questions and understand the study.
- I am satisfied with the answers I have been given regarding the study and I have a copy of this consent form and information sheet.
- I understand that taking part in this study is voluntary (my choice) and that I may withdraw from the study at any time without this affecting my medical care.
- I consent to the research staff collecting and processing my information, including information about my health (including information collected from my GP and other Health Providers).
- If I decide to withdraw from the study, I agree that the information collected about me up to the point when I withdraw may continue to be processed.
- I understand that there may be risks associated with the medication in the event of myself or my partner becoming pregnant. I undertake to inform my partner of the risks and to take responsibility for the prevention of pregnancy.
- I agree to my tissue samples being sent overseas, and I am aware that these samples will be disposed of using established guidelines for discarding biohazard waste.
- I agree to an approved parties including Sponsor or CRO representatives for monitoring and auditing, auditor appointed by the New Zealand Health and Disability Ethic Committees, or any relevant regulatory authority or their approved representative reviewing my relevant medical records for the sole purpose of checking the accuracy of the information recorded for the study.
- I understand that my participation in this study is confidential and that no material, which could identify me personally, will be used in any reports on this study.
- I understand the compensation provisions in case of injury during the study.
- I know who to contact if I have any questions about the study in general.
- I understand my responsibilities as a study participant.
- I understand that I will receive a summary of the study results after the final study report is available and if I do not wish to receive this, I will inform site staff.
- I consent to my GP or current provider being informed about my participation in the study and of any significant abnormal results obtained during the study.



Statement by Participant I hereby consent to take part in this study. I understand that I will receive a signed copy of this consent form for my records.			
		(full name)	
		(signature)	
	///	(Date DD/MMM/YYYY) Time:	
		I have discussed this study with the above- nderstand the information provided about the	
····,		(full name)	
		(signature)	
		(project role)	
	//	(Date DD/MMM/YYYY) Time:	