

Australian TOxicology Monitoring (ATOM) Study Dihydropyridine Toxicity Project (DTP) (Amlodipine, Lercarnidipine)

AIMS: to investigate the toxic effects and pharmacokinetics of amlodipine or lercarnidipine in single and combination overdoses with other anti-hypertensive agents.

INCLUSION:

1. Any patient presenting with a lercarnidipine or amlodipine poisoning.
2. Any patient presenting with a combination product of lercarnidipine or amlodipine poisoning (e.g.: with angiotensive converting enzyme inhibitor, angiotensin receptor blocker, diuretics or statin).

EXCLUSION: Age < 14 years

WHAT IS INVOLVED: This study involves a structured audit of the outcomes of standard management – ECGs, clinical observation (pulse, BP), taking blood samples and documenting common clinical symptoms. These should be done on admission, 4 hours later and when clinically indicated until discharge.

METHOD:

STEP 1 - Obtain **consent** from the patient. Please ask them to sign the Consent form on page 2 of the “Participant Information and Consent form” and then please fax this page to: **(02) 49110501** (or email to renai.kearney@newcastle.edu.au)

STEP 2 - For this study extra blood samples will be required to be collected with routine blood tests.

STEP 3 – Perform ECG at the time when blood samples are taken.

STEP 4 - Complete the patient data form and please fax the completed form to : **(02) 49110501** (or email to above address).

STEP 5 – Research samples are to be collected in a **serum tube**. **Note** on all request forms “**DTP study**”: research samples. Please send the “Laboratory Protocol” to your pathology laboratory with the first research serum sample collected.

ECG AND BLOOD SAMPLE TIMES:

Research samples to be collected are 5mL serum samples (SST)

ECG should be done on admission and when clinically indicated. Please collect a serum tube for research purposes:

- 1) On admission,
- 2) 4 – 6 hours post admission bloods
- 3) As indicated for clinical monitoring

AUSTRALIAN TOXICOLOGICAL MONITORING (ATOM) STUDY

Patient Data Sheet #1 – Dihydropyridine Toxicity Project (DTP) (Amlodipine, Lercarnidipine)

PATIENT STICKER:	DATE AND TIME PRESENTED TO ED:	
	CONSENT OBTAINED: YES NO	
WEIGHT (KG):	DATE & TIME OF INGESTION:	
HEIGHT (CM):	CERTAIN OF TIME OF INGESTION: Y / N	
	INTENTIONAL / ACCIDENTAL INGESTION (circle)	
DIHYDROPYRIDINE TAB STRENGTH:	DIHYDROPYRIDINE PRODUCT BRAND NAME :	
DOSE OF DIHYDROPYRIDINE TAKEN:		
CERTAIN OF DOSE INGESTED: Y / N		
CO-INGESTED DRUGS:	AMOUNT	TIME INGESTED
CURRENT MEDICATIONS:	PAST MEDICAL HISTORY:	
Initial HR: BP:	CHARCOAL GIVEN: YES NO	
Time taken:	TIME AND DOSE:	
SYMPTOMS ON PRESENTATION: (PLEASE CIRCLE)		
CVS: Arrhythmias – Atrial fibrillation / Bradycardia / Junctional bradycardia / Complete heart block / Ventricular ectopics / Atrial tachycardia / Ventricular tachycardia / Ventricular fibrillation / Hypotension.		
Others:		

Fax No: 02 49110501

PLEASE PLACE T HOLD ON ALL PATHOLOGY REQUESTS

Australian TOxicology Monitoring (ATOM) Study

Dihydropyridine Toxicity Project (DTP)

(Amlodipine, Lercarnidipine)

Please send this information sheet to your pathology laboratory with the first serum research sample collected.

1. Serum

Blood in plain or serum-separator (SST) tube

2000g for 10 min
(3800-4000 rpm in
a standard bench
top centrifuge)



1.6-2mL aliquots of
serum (in 2mL screw
cap cryotubes if
available)

Label each tube with sample type ("Ser"),
patient ID, date & time of collection.

Keep samples from each collection time
separate in a single specimen bag, along
with a copy of the corresponding request
form.



Freeze as soon as possible and transport in dry ice (or other suitable frozen transport) to -80°C storage. **NOTE:** please freeze all available (earlier) left-over samples, even if they have been left unfrozen for several days, noting the date and time of freezing on the request forms.

2. Left over serum/ plasma from earlier time points

The most important samples are the first ones taken, when the patient and doctor may not be aware of the study. Even if these samples have not been processed according to the procedures above, we can obtain important information from them. Therefore, please ensure that samples from this patient are **not discarded** without first discussing with a study coordinator (contact details at the bottom of this page).

3. Results from your lab

If time permits we would appreciate copies of all results (biochemistry, haematology and coagulation). Please either fax to **(02) 80160868**

OR:

Post to: Dr Betty Chan
Prince of Wales Hospital
Emergency Department
Barker Street, Randwick NSW 2031

If you have any questions please call Dr Betty Chan (principal investigator) on **0439601068** or **ATOM phone on 0413286663**. IF THIS FAILS please call the ASP study line on 1800676944.

Fax number for sending laboratory results: (02) 80160868

Australian TOxicology Monitoring (ATOM) Study

Dihydropyridine Toxicity Project (DTP)

(Amlodipine, Lercarnidipine)

4. Sample Transport

Samples should be sent in a single batch on patient discharge.

Please label these samples as:

“Dihydropyridine Toxicity Project (DTP): Study Hold for Dr Page”

These samples are to be sent
to: **QLD:**

For Dr Goce Dimeski

**C/O Chemical Pathology
Princess Alexandra Hospital
Woolloongabba
QLD 4102**

***PLACE IMMEDIATELY IN -80
FREEZER***

Background information about this study:

Dihydropyridine is now one of the commonest prescribed anti-hypertensive agents in Australia. The Dihydropyridine Toxicity Project (DTP) aims to investigate the pharmacokinetics and dynamics of amlodipine and lercarnidipine in single and combination products with or without other anti-hypertensive co-ingestion. If you have any questions or queries please do not hesitate to contact us on the numbers provided below.

If you have any questions please call Dr Betty Chan (principal investigator) on **0439601068**
ATOM phone on 0413286663. IF THIS FAILS please call the ASP study line on
1800676944.
Fax number for sending laboratory results: (02) 80160868

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet

Invitation

You are being asked to take part in a study into drugs in overdose (Australian TOxicology Monitoring (ATOM) Study). The study is being conducted by the Queensland Poisons Information Centre at this Hospital.

The investigators for the study are:

Dr's Colin Page, Angela Chiew, Betty Chan, Geoff Isbister, Nick Buckley, Andrew Dawson & Kate Sellors

Before you decide whether or not you wish to participate in this study, it is important for you to understand why the research is being done and what it will involve. Please take the time to read the following information carefully and discuss it with others if you wish.

1. 'What is the purpose of this study?'

This study measures drug levels in blood (and sometimes urine) after drug overdoses. By taking several samples, the study aims to find out how long it takes for the body to get rid of the drug. We are also looking at the effect of the drug on the body. This information might be useful to decide how long to keep people in hospital and whether drug levels might be helpful.

2. 'Why have I been invited to participate in this study'

You are eligible to participate in this study because you have ingested a drug that we wish to gain more information about in overdose.

3. 'What if I don't want to take part in this study, or if I want to withdraw later?'

Participation in the study is completely voluntary you will suffer no disadvantage if you elect to not be involved in the study and will continue to receive optimal ongoing care. You may withdraw from the study at any time and have the option of withdrawing all data relating to the study and have any blood samples destroyed.

4. 'What does this study involve?'

If you agree to participate in this study, you will be asked to sign the Participant's Consent Form.

We may collect some extra blood samples while you are in hospital to measure drug levels in the blood. In most cases we will try to use blood samples that are collected as a part of your treatment. This excess blood would have been discarded. For some drugs urine will also be collected. An intravenous cannula, which is a fine plastic tube placed into a vein in the hand or arm, will be used to take the blood samples during the study to minimise discomfort. This may be in addition to the intravenous cannula inserted for treatment of the overdose, if required.

In some participants urine will also be collected, and you will be informed of this at the time of consenting. You will be asked to pass urine into a container at specific times for up to 24 hours. In addition the researchers would like to have access to your medical records to obtain relevant information to the study.

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet

5. 'How is this study being paid for?'

This study is being paid for by the Department of Clinical Toxicology Prince of Wales Hospital.

6. 'Are there risks to me in taking part in this study?'

The only risk of being involved in the study is the additional need for an intravenous cannula. This will not be required in all participants and we will aim to use the cannula inserted into your arm as a part of your treatment. This will be inserted by experienced health care staff. There are minimal risks from taking blood, but they include a small risk of bruising at the site, dizziness and fainting, and the small chance of an infection developing from the presence of the cannula. The standard precautions of using a sterile technique to collect blood and insert the cannula will significantly reduce the risk of this and will be adhered during the study. There is no risk from urine collection, which will be collected by nursing staff.

7. 'What happens if I suffer injury or complications as a result of the study?'

If you suffer any injuries or complications as a result of this study, you should contact the study doctor as soon as possible, who will assist you in arranging appropriate medical treatment.

You may have a right to take legal action to obtain compensation for any injuries or complications resulting from the study. Compensation may be available if your injury or complication is caused by the procedures, or by the negligence of any of the parties involved in the study. If you receive compensation that includes an amount for medical expenses, you will be required to pay for your medical treatment from those compensation monies.

If you are not eligible for compensation for your injury or complication under the law, but are eligible for Medicare, then you can receive any medical treatment required for your injury or complication free of charge as a public patient in any Australian public hospital.

8. 'Will I benefit from the study?'

This study aims to further medical knowledge and may improve future treatment of certain drug overdoses, however it may not directly benefit you.

9. 'Will taking part in this study cost me anything and will I be paid?'

Participation in this study will not cost you anything and you will not be paid.

10. 'What will happen to my tissue sample after it has been used?'

The blood or tissue sample/s you provide during the study will be destroyed at the completion of the study.

11. 'How will my confidentiality be protected?'

The samples that are collected in this study will be de-identified and stored as a study number. The study mastercode will only be known to the researchers and will be password protected. Only the researchers named above will have access to your details and results that will be held securely at Prince of Wales Hospital.

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet

Any identifiable information that is collected about you in connection with this study will remain confidential and will be disclosed only with your permission, or except as required by law.

12. 'What happens with the results?'

If you give us your permission by signing the consent document, we plan to discuss/publish the results with the HREC for monitoring purposes, peer-reviewed journals and 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, if you wish.

The information collected from this study will be stored in a de-identified fashion. This personal information will be accessed, used and stored in accordance with Commonwealth Privacy Laws and the *NSW Health Records and Information Privacy Act 2002*. It is assured that all records dealing with participation in this study will be kept for five years after completion of the study under secure conditions. Authorised persons within the institution may also inspect records for purposes of data audit only. Individual participants in the study will not be identifiable in any reports of the data from the protocol or any publications resulting from the research.

13. 'What should I do if I want to discuss this study further before I decide?'

When you have read this information, the researcher Dr Colin Page will discuss it with you and any queries you may have. If you would like to know more at any stage, please do not hesitate to contact Dr Page on (07) 3176 2111

14. 'Who should I contact if I have concerns about the conduct of this study?'

This study has been approved by the Children's Health Services Human Research Ethics Committee, Royal Children's Hospital, Brisbane, Queensland. Any person with concerns or complaints about the conduct of this study should contact the Research Governance Office, which is nominated to receive complaints from research participants. You should contact them on 07 3636 9167/4445, or email to:

HQ_Research@health.qld.gov.au and quote **HREC project number: HREC/14/QRCH/105**

Thank you for taking the time to consider this study. If you wish to take part in it, please sign the attached consent form. This information sheet is for you to keep. More information, questions, concerns and complaints: please contact Dr Colin Page on phone: (07) 31762111, he will be happy to answer them.

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet

1. I,.....
of.....
agree to participate in the study described in the participant information statement set out above
2. I acknowledge that I have read the participant information statement, which explains why I have been selected, the aims of the study and the nature and the possible risks of the investigation, and the statement has been explained to me to my satisfaction.
3. Before signing this consent form, I have been given the opportunity of asking any questions relating to any possible physical and mental harm I might suffer as a result of my participation and I have received satisfactory answers.
4. I understand that I can withdraw from the study at any time without prejudice to my relationship to treating hospital
5. I agree that research data gathered from the results of the study may be published, provided that I cannot be identified.
6. I understand that if I have any questions relating to my participation in this research, I may contact Dr Colin Page on (07) 31762111, who will be happy to answer them.
7. I acknowledge receipt of a copy of this Consent Form and the Participant Information Statement.

Signature of participant

Please PRINT name

Date

Signature of witness

Please PRINT name

Date

Signature of investigator

Please PRINT name

Date

Please fax the consent form to (02) 80160860

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet

REVOCATION OF CONSENT

I hereby wish to **WITHDRAW** my consent to participate in the study described above and understand that such withdrawal **WILL NOT** jeopardise any treatment or my relationship with the Prince of Wales Hospital.

Signature of participant

Please PRINT name

Date

The section for Revocation of Consent should be forwarded to **Dr Colin Page, Department of Emergency Medicine, Princess Alexandra Hospital, Ipswich Road, Woolloongabba, QLD, 4102.**

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet: Relative / Guardians Consent

1. I,.....
of.....
agree to participate in the study described in the participant information statement set out above
2. I acknowledge that I have read the participant information statement, which explains why I have been selected, the aims of the study and the nature and the possible risks of the investigation, and the statement has been explained to me to my satisfaction.
3. Before signing this consent form, I have been given the opportunity of asking any questions relating to any possible physical and mental harm I might suffer as a result of my participation and I have received satisfactory answers.
4. I understand that I can withdraw from the study at any time without prejudice to my relationship to this hospital
5. I agree that research data gathered from the results of the study may be published, provided that I cannot be identified.
6. I understand that if I have any questions relating to my participation in this research, I may contact Dr Colin Page on (07) 31762111, who will be happy to answer them.
7. I acknowledge receipt of a copy of this Consent Form and the Participant Information Statement.

Signature of Person Responsible

Please PRINT name

Date

Signature of witness

Please PRINT name

Date

Signature of investigator

Please PRINT name

Date

Please fax the consent form to (02) 80160860

PARTICIPANT INFORMATION SHEET AND CONSENT FORM
Australian TOxicology Monitoring (ATOM) Study
Study Information Sheet: Relative / Guardians Consent

REVOCATION OF CONSENT

I hereby wish to **WITHDRAW** my consent to participate in the study described above and understand that such withdrawal **WILL NOT** jeopardise any treatment or my relationship with the Prince of Wales Hospital.

Signature of Person Responsible	Please PRINT name	Date
_____	_____	_____

The section for Revocation of Consent should be forwarded to **Dr Colin Page, Department of Emergency Medicine, Princess Alexandra Hospital, Ipswich Road, Woolloongabba, QLD, 4102**