# ASP-ESAA Early Antivenom in Australian Snakebite Project PROCEDURE

**AIM:** To investigate the effects of early antivenom administration in Australian snakebite.

**OBJECTIVE:** To prevent major clinical envenoming effects such as myotoxicity and neurotoxicity from occurring

**Inclusion Criterion – Presents within 2 hours of bite** and definite sighting of a snake by the patient or parent/carer of child (age > 2 years) with early symptoms suggesting envenoming (ie collapse OR two of vomiting, headache, or abdominal pain).

**Exclusion Criterion** – Definite bite by a non-venomous snake, death adder, mulga, or taipan; cardiac arrest; age <2 years.

#### **PROCEDURE**

- **Step 1** At any time that blood is taken for routine care (FBC, COAGS/D-dimer, CUE, LFT, CK, LDH, BSL), take <u>additional research blood-</u> a <u>plain/serum tube</u> (colour varies between labs). Note on all request forms <u>"Australian Snakebite Project"</u>.
- **Step 2** Collect initial bloods as per routine blood collection (see ASP laboratory protocol)
- **Step 3** <u>Call an ASP investigator</u> on 1800 676 944. We will fax the necessary paperwork to you (if this is not already to hand) and liaise with your pathology service.
- **Step 4** Obtain consent as soon as the patient's condition permits (or from next of kin) and <u>immediately fax</u> the <u>completed Consent Form</u> and <u>Datasheet 1</u> to **(02) 4911 0501**.
- Step 5— Start filling out <u>remaining datasheets</u>: Keep these with the patient's notes and continue recording relevant clinical data. Once completed fax to **(02) 4911 0501**Step 6 Proceed based on inclusion criteria: **definite bite**, **<2h**, **systemic symptoms**, **age>2**

#### IF Included:

- 1. Contact investigator immediately on **1800 676 944** to obtain randomisation (Either early antivenom or standard care)
- 2. If randomised to antivenom:
- → Give one vial of brown snake and one vial of tiger snake antivenom immediately (Except for Tasmania give one vial of Tiger snake antivenom AND Northern WA give one vial of Brown snake antivenom) added to 200mL of Normal Saline and given over 20 min.
- → No further antivenom to be given unless there are exceptional circumstances (eg. Late diagnosis of taipan, mulga, death adder consult with ASP)
- 3. If randomised to standard care:
- → Wait for laboratory results then give antivenom based on standard care and current snake bite guidelines

#### IF Excluded:

- 1. Standard care
- 2. Recruit to ASP observational study (See ASP Procedure)
- 3. Antivenom use as indicated (standard care & current guidelines)

Step 7 - Do research bloods (serum) just prior to study vial administration.

AND

At 6 hours post-bite take:
At 12 hours post-bite take:
At 18 hours post-bite take:
At 24 hours post-bite take:
At 24 hours post-bite take:
At 24 hours post-bite take:
Then every 12 hours until discharge

Routine + Research bloods + complete Datasheet 2
Routine + Research bloods + complete Datasheet 2
Routine + Research bloods + complete Datasheet 2

## Record sampling times on vials even if not at exactly required times

**Step 8** - If a reaction to AV occurs, call the Poison's Information Centre / Investigator and take additional samples as outlined on the adverse reaction datasheet (Datasheet 3).

**Step 9-** Patients should be observed for 24 hours post bite unless the CK is increasing, they develop neurotoxcity, have significant bleeding or develop renal impairment. All patients should be kept until any of these complications resolve or start resolving.

Step 10 - Fax all laboratory results and completed Datasheets 1-3 to (02) 4911 0501

**Step 11** – Prior to patient discharge, please give the patient the discharge treatment plan (Datasheet **4**)

# National Study Line (24 hours): 1800 676 944

IF THIS FAILS then contact an Investigator directly: Dr Geoff Isbister 0438 66471

Fax number for submitting consent forms and datasheets: (02) 4911 0501

# **Australian Snakebite Project (ASP)**

# Guidelines for the management of anaphylaxis to antivenom

## (i) Preparation prior to commencing antivenom.

- a. We do not recommend routine premedication with antihistamines or steroids
- b. Dedicate one small bore (18-20 G in adults) IV line to antivenom administration and one large bore IV line (16-14 G in adults) for emergency resuscitation.
- c. Prepare 1L Normal Saline (20 ml/kg in children) ready to give under pressure.
- d. Prepare adrenaline 1:1000 (1mg in 1 mL) drawn up to a dose of 0.01 mg/kg (max. 0.3 mg, i.e. max 0.3 mL) and label "adrenaline for IM. injection only (dose in mg)".
- e. Prepare an i.v. infusion of adrenaline 1mg in 100 mL (controlled by infusion pump or syringe driver) ready to attach by a side arm to the resuscitation line. Anti-reflux valves must be attached above the side arm on any other infusions using this IV., to prevent adrenaline going back up into the other fluid bags. To prevent erroneous administration, do not attach the adrenaline infusion unless it is needed.
- f. Record blood pressures on the other side to the fluid/adrenaline infusion, to avoid pronged cuff inflations and thus extravasation of infusion fluids.

# (ii) Management of a reaction (In addition to <u>study procedures – see ASP Datasheet 3</u>)

- a. Most reactions are related to the rate of antivenom infusion, and cause flushing, hypotension and bronchospasm. Some mild reactions resolve with temporary cessation of the antivenom infusion and recommencing it at a slower rate.
- b. Envenomed patients may be severely coagulopathic, so it is important to be cautious when giving adrenaline to avoid blood pressure surges, which might lead to intracerebral haemorrhage.

- c. Initial management of severe reactions (sudden hypotension, bronchospasm):
  - i. Suspend the antivenom infusion.
  - ii. Lie the patient flat (if not already), commence high flow/100% oxygen and support airway/ventilation as required.
  - iii. Rapid infusion of 1L N Saline (20 mL/kg in children) over 2-3 minutes.
  - iv. Adrenaline IM. into the lateral thigh, 0.01 mg/kg to maximum of 0.3 mg (alternatively, those experienced with IV. adrenaline infusions may proceed directly to this, as below).
  - v. Liaise with toxicology service regarding ongoing management.
- d. For reactions that do not respond to initial management:
  - i. If hypotensive, repeat Normal Saline bolus as above (up to 50 mL/kg may be required).
  - ii. Commence IV infusion of adrenaline (0.5-1 mL/kg/hour, of 1 mg in 100 mL) and titrate according to response; monitor BP every 3-5 minutes (using the arm opposite to the infusion); beware that as the reaction resolves adrenaline requirements will fall, the blood pressure will rise and the infusion rate will need to be reduced.
  - iii. Consider nebulised salbutamol for bronchospasm, nebulised adrenaline for upper airway obstruction, and IV. atropine for severe bradycardia.
  - iv. Seek advice urgently from the local/regional ED Consultant &/or ICU Consultant.

REFERENCE: Snakebite and Spiderbite Management Guidelines SA. Prof. Julian White. Government of South Australia Department of Health Guideline Ref G0034, August 2006.

# **ASP**

# **Australian Snakebite Project PROCEDURE**

1-11-2013 V7

# ONLY USE THIS PROCEDURE IF PATIENT ISN'T ELIGIBLE FOR ESAA

**AIM** To investigate snake envenoming and the appropriate use and safety of snake antivenoms in Australia.

Inclusion Criteria – Any patient who has been bitten by a snake, whether definite or suspected.

Exclusion Criteria – (1) Age < 2years

#### **PROCEDURE**

**STEP 1** – At any time that blood is taken for routine care (FBC, COAGS/D-dimer, CUE, LFT, CK, LDH, BSL), take <u>additional</u> <u>research bloods (Note: for children under 12 years use routine blood samples where possible)</u>; a <u>plain/serum tube</u> (colour varies between labs). Note on all request forms "<u>Australian Snakebite Project"</u>

**STEP 2** – <u>Call an ASP investigator</u> on the mobile number below. We will fax the necessary paperwork to you (if this is not already to hand) and liaise with your pathology service.

**STEP 3** – Obtain consent as soon as the patient's condition permits (or from next of kin) and <u>immediately fax</u> the **completed Consent Form** and **Datasheet 1** to the fax number below.

**STEP 4** – Start filling out the <u>remaining datasheets</u>; keep these with the patient's notes and continue recording relevant clinical data.

## **STEP 5** – Proceed as follows:

- 1. Standard Care for snakebite.
- 2. Antivenom use as indicated, e.g. for coagulopathy, neurotoxicity, myotoxicity; 1 vial for all snakes and no re-dosing
- 3. Additional research bloods whenever routine bloods are taken.\*
  - \* (For children under 12 years use a sample of routine bloods for research bloods where possible)

STEP 6 – Record all premedications, reactions to antivenom (AV), and bleeding complications on the study datasheet. If a reaction to AV occurs, call the National Study Line / Investigator and take additional samples as outlined on the adverse reaction datasheet.

STEP 7 - Fax all completed datasheets 1-3 (re-send Datasheet 1) to the fax number below

National Study Line (24 hours): 1800 676 944 IF THIS FAILS then contact (Chief

Investigator) **Prof Geoff Isbister 0438 466471** or the study team 02 40143870

FAX NUMBER FOR SUBMITTING CONSENT FORMS AND DATASHEETS: (02) 49110501

Patient Name & URN: or Patient Sticker Label  Arrival Date:	ASP ESSA		<b>A</b> us	stralian <b>S</b> na	akebite	<b>P</b> roject	Datash	eet <b>1</b>
Arrival Date:	DOCTORS NAME:					STUDY ID N	UMBER:	
Arrival Date:   Arrival Time:   Sex:   DOB:	Patient Contact				=	Patier	nt Name & U	RN:
Arrival Date:   Arrival Time:   :   Sex:   DOB:	Phone numbers:				_	or Pat	ient Sticker	Label .
Alcohol consumed: Yes No  PRESTAID  1. Has the patient been immobilised (kept on a stretcher/not walking) since the bite? Yes No  2. Has a PRESSURE BANDAGE +/- SPLINT been applied Yes No  2. Was it further reinforced (improved) by health professional? Yes No  3. Characteristics: Loose & /or one layer only & /or part of limb only of pressure bandage Firm, 2 or more layers, whole limb, well applied  Acting as a venous tourniquet – limb swollen 4. Time removed:  VDK / SNAKE ID (if available/performed) Cut window over suspected bite site  VDK / SNAKE ID (if available/performed) Cut window over suspected bite site  VDK Result BITE SITE: VDK Result URINE: (only required if bite VDK Is negative but patient is envenomed)  VDK Result BITE SITE: VDK Result URINE: (only required if bite VDK Is negative but patient is envenomed)	HOSPITAL:							
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PREVIOUS HOSPITAL  (If transferred)  Date: Time: Patient Weight:   Part of body bitten:   Patient Weight:   Patient Weig	Arrival Date:	Ar	rival Time:	:	Sex:	DC	DB:	
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SNAKE, if available, sent for identification	SNAKE, if available, s	ent for identificati	on 🗌 Yes	S No If Ye	es to whom:			
ID Result:	ID Result:							

# Australian Snakebite Project Datasheet 2

STUDY ID NUMBER:

Time Point	Pre Hospital	Admission	Pre-A/V	Post-Bite 6 hours	Post-Bite 12 hours	Post-Bite 18 hours	Post-Bite 24 hours
Date							
Actual Time (hrs)	_ <b>:</b>	:	<u></u> :	:	:	:	<u></u> :_
Fang marks Number							
Pain							
Swelling							
Bruising							
Tender Lymph Node							
Headache							
Nausea							
Vomiting							
Abdo Pain							
Diarrhoea							
Sweaty							
Myalgia (Please circle one)	Nil Local Generalised						
Coagulopathy / Blo	eeding						
Bleeding from bite							
Bleeding from IV puncture sites							
Bleeding from gums							
Dipstick urine +ve blood>1+							
INTRACRANIAL BLEEDING							
GASTROINTEST INAL BLEEDING							
Other (Specify)							

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# Australian Snakebite Project Datasheet 2<sub>pg2</sub> STUDY ID NUMBER:

Time Point	Pre Hospital	Admission	Pre-A/V	Post-Bite 6 hours	Post-Bite 12 hours	Post-Bite 18 hours	Post-Bite 24 hours
Date	Ποοριίαι						
Actual Time (hrs)	:	:	:	:	:	:	:
Neurotoxicity							
Ptosis							
Poor upgaze / diplopia							
Bulbar weakness (cough / gag)							
Intercostal weakness							
Limb weakness							
Reduced FEV1 (record detailed spirometry data in med. record)							
Cardiovascular							
Collapse &/or unconscious							
Renal							
Urine Output (please circle one)	Normal Decreased Nil	Normal Decreased Nil	Normal Decreased Nil	Normal Decreased Nil	Normal Decreased Nil	Normal Decreased Nil	Normal Decreased Nil
Change in Smell							
Anti-emetic given							
ANTIVENOM Type	Batc	h Number	No of vials	Time Start		ins Yes	rse Effects?
CLOTTING FACT Type		<b>MENT (FFP,</b> Amount	CRYO etc) Time St	arted	Duration mins	Adverse E /es [	ffects?  No No

Datasheet 3

	STUDY ID NUMBER	
ADVERSE REACTION	•	

					er photoco <sub>l</sub>	oy this datasheet
DATE & TIME	OF ONSET	LIKELY CAU	SE			
REACTION FEAT	TURES:					
Erythema/ Ang Urticaria  Y N Y	iodema Nausea	Vomiting  N Y N	Abdo/Pelvic pain	Throat tightness	Chest tightness	Cough
Stridor Dys	pnoea Wheeze	Accessory Muscle use N Y N	Intercostal indrawing	Hypoxaemia SpO2<=92%	Altered Consciousne	Diaphoresis  Y N
		HIGHEST ring Rn /	Other:			
Was antivenom	stopped?	Υ Ν	1			
Was antivenom	restarted?	Y	At what r (e.g. ha	ate was it re- lf, full)	-started?	
EMERGENCY TR	REATMENT ent please copy and	attach drug and fl	uid administratic	on records + det	tails of premed	ds if given)
INTERVENTION		DOSE and	d ROUTE (if dr	rug / fluid)	TI	ME
						:

# ONCE EMERGENCY TREATMENT HAS BEEN STARTED PLEASE DO THE FOLLOWING:

- 1. TAKE ADDITIONAL RESEARCH BLOODS (1 x Serum, 1 x Citrate) PLUS 1 x EDTA (Purple) TUBE at **10mins and again at 1 hour** and send to the laboratory immediately (ON ICE if available)
- 2. Contact ASP INVESTIGATOR on 1800 676 944 to discuss case management and investigation

# Australian Snakebite Project DISCHARGE PLAN

(Please give to patient on discharge)

#### Information to the Patient

Any patient who has received antivenom may develop serum sickness, from 5 to 20 days later. The symptoms of serum sickness include: fever, rash/urticaria (hives), muscle/joint aches, headache, malaise (feeling generally unwell), and nausea/vomiting. If you develop any of these symptoms visit your GP for treatment for serum sickness. Please take this sheet with you.

Thank you for participating in this study.

# More information about the Australian Snakebite Project (ASP) can be found at the following website: <a href="http://www.newcastle.edu.au/ctrg">http://www.newcastle.edu.au/ctrg</a>

You can also contact an ASP investigator on 1800 676 944

## Information for the GP

This patient has been recently treated for a venomous snake bite with antivenom. Serum sickness is a delayed immune reaction that can result from the injection of foreign protein or serum. Serum sickness is diagnosed as three or more of the symptoms listed in the table below that present 5-20 days postantivenom.

Symptoms: (tick those present)

fever/chills	headache	
erythematous rash	malaise	
urticaria	nausea/vomiting	
myalgia	lethargy	
arthralgia		

Guidelines recommend that serum sickness should be treated with a one-week course of corticosteroids and when greater than 25mL of antivenom is administered it is advisable to give a prophylactic course of oral corticosteroids. In severe cases of serum sickness an oral prednisone starting dose of 60 mg/day with tapering down over two or more weeks is thought to be appropriate.

The following blood tests are recommended: Full blood count, ESR, CRP, C3, C4 & 1 extra plain serum tube for ASP investigators. Please call 1800 676 944 if you would like to speak to an ASP investigator.

Name of Doctor & Medical Centre:	
Laboratory where bloods were sent:	

Please note the patient has signed a consent form to be involved in the study. ASP investigators will contact the laboratory to organise transportation of the extra plain serum tube.

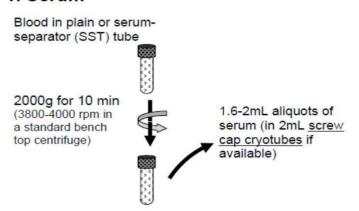
\*Please fax this sheet to (02) 4911 0501.

Thank you for your assistance

# Australian Snakebite Project (ASP) ESSA LABORATORY PROTOCOL

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

#### 1. Serum



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 no snakebite samples are discarded without first discussing with a study coordinator (contact details at the bottom of this page).

# 3. If a serious adverse reaction occurs - EDTA plasma as well

If an allergic reaction occurs, the doctors may send additional samples of serum, plasma (citrate) and plasma (EDTA) to assess anaphylactic mediators, 15 minutes and 60 minutes after reaction onset. Please process as per 1 & 2 and freeze immediately. EDTA plasma needs a single spin only, and can be frozen in aliquots of 1.6-2 ml.

## 4. Results from your lab OR FAX from all States: (02) 4911 0501

If time permits we would appreciate copies of all results (biochemistry, haematology and coagulation): **ALL STATES:**: Attn: Dr Geoff Isbister, Clinical Toxicology Research Group, Level 5, New Med Building, Calvary Mater Newcastle Hospital, Edith St, Waratah, NSW 2298.

National Study Line (24 hours): 1800 676 944. IF THIS FAILS then contact an Investigator

directly: Dr Geoff Isbister 0438 466471 or the study team 02 40143870

Fax number for sending laboratory results: (02) 4911 0501

# Australian Snakebite Project (ASP) ESSA LABORATORY PROTOCOL

# 5. Sample Transport

Frozen serum & plasma samples (send in a single batch on patient discharge)

#### **NSW**

For Dr Geoff Isbister

Specimen Reception, Hunter Area Pathology Service, John Hunter Hospital, Lookout Road, New Lambton Heights, NSW 2305

\*PLACE IMMEDIATELY IN -20FREEZER\*

#### **TAS**

Contact: Jenny Gudden on 03 6222 8664 or Prof Simon Brown on 0419796678 to arrange transfer to Jack Jumper Allergy Program Laboratory, Royal Hobart Hospital

\*KEEP IN - 20 FREEZER

#### ם וס

Haematology Supervisor, Pathology Central Spec. Reception Block 7 Level 3, Royal Brisbane & Women's Hospital, Butterfield Street, Herston, QLD 4029. P. (07) 3646 5233 NOTE TO RECEPTION STAFF: Forward

direct to Coag/Special Investigations \*DO NOT UNPACK\* KEEP IN -20 FREEZER

#### VIC

Attn: Anjana De Silva (0410946996)

Monash University, Faculty of Medicine-Nursing and Health Sciences, Building 27, Reception, Clayton Campus, Wellington Rd, Clayton VIC 3800 \*KEEP IN – 20 FREEZER

# **Background Information about this study**

The aim of this project is be to administer antivenom early – as soon as the patient presents to hospital, without first waiting for laboratory tests or the development of clinical signs of envenoming (except nonspecific symptoms), and/or retrieval to a major hospital for laboratory testing. The objective is to determine if the administration of early antivenom will prevent envenoming effects and therefore significant morbidity or death.

**National Study Line (24 hours): 1800 676 944.** IF THIS FAILS then contact an Investigator directly: Dr Geoff Isbister **0438 466471 or the study team 02 40143870** 

Fax number for sending laboratory results: (02) 4911 0501

# Australian Snakebite Project (ASP) A collaboration of Australian country, regional and teaching hospitals





# **Participant Information and Consent Form**

Full Project Title: Randomised controlled trial investigating the effects of early snake antivenom administration (ESAA) and the Australian Snakebite Project (ASP)

Principal Researchers: Dr Nicole Ryan, Prof Geoff Isbsiter & Dr Chris Johnston

This Participant Information and Consent Form are **5** pages long. Please make sure you have all the pages.

#### 1. Your Consent

You are invited to take part in the Australian Snakebite Project (ASP) and a study to look into the effects of early snake antivenom administration (ESAA). Please read this information carefully and feel free to ask any questions.

Once you understand what the projects are about and if you agree to take part, you will be asked to sign the Consent Form. By signing the Consent Form, you indicate that you understand the information and that you give your consent to participate in this research.

You will be given a copy of the Participant Information and Consent Form to keep as a record.

#### 2. Purpose and Background

The purpose of the Early Snake Antivenom Administration (ESAA) project is to investigate the effect of administrating antivenom to snake bite patients within two hours of being admitted to hospital. For snake bite patients hospital staff will usually wait until the patients' blood tests results confirm that they have venom in their system before they give antivenom. However by the time the test results are available the venom is already damaging the body and some of these effects are not reversed by later treatment of antivenom. This project aims to test if giving antivenom as soon as possible after the patient presents to hospital, without waiting for laboratory test results or transporting patient to a larger hospital, will prevent the damaging effects of venom that may lead to significant illness or death.

Patients bitten by a venomous snake but are ineligible for ESAA will be invited to participate in the ASP project. The Australian Snakebite project (ASP) is interested in recruiting all people bitten by venomous snakes. ASP is investigating the venom levels in the blood after a venomous snake bite and if they correlate with the effects of the bite. The researchers are also looking at how long the effects of envenomation last and the effects of antivenom on venom levels. The ASP study aims to improve the clinical care of snake bite to achieve optimal patient outcomes.

#### 3. Participation is Voluntary

Participation in any research project is voluntary. If you do not wish to take part you are not obliged to. If you decide to take part and later change your mind, you are free to withdraw from the project at any stage. If you wish to withdraw your blood samples from the study these will be destroyed by the investigators as well as any information collected.

Your decision whether to take part or not to take part, or to take part and then withdraw, will not affect your routine treatment, or your relationship with those treating you.

#### 4. Procedures

<u>All participants</u>: If you take part in ASP or ESAA you will receive standard care, and any other necessary treatments including pain relief, intravenous fluids and medicine to treat nausea and vomiting. We will record information about your snakebite and laboratory tests that are performed. In addition we will take a small additional amount of blood from you at the same time that bloods are taken for routine laboratory tests and therefore will not cause you any additional discomfort or inconvenience. We will use this extra blood to measure the amounts of venom and antivenom in your blood.

Snake bite patients who present to hospital within two hours of a bite are eligible for recruitement to ESAA. In addition to other standard treatments you will be randomly (like tossing a coin) put into one of two groups. The first group will receive intravenous tiger snake and brown snake antivenom within two hours of being admitted to hospital. The second group will receive the standard care given to snake bite patients according to the normal hospital protocol.

Blood will be taken as outlined in paragraph one of this section. You will be involved in the study for the duration of your stay in hospital which will usually be for a period of 24 to 48 hours. Occasionally because of severe complications of the snake bite your hospital stay may be longer. If you have any complications we will record information about these complications and may request additional blood samples to help us determine the nature of these complications.

We will also contact you 7 to 10 days after you have been discharged from hospital to determine if you have developed any delayed effects from the use of antivenom.

## 5. Collection of Tissue Samples for Research Purposes

By consenting to take part in this study, you also consent to the collection, storage and use of blood samples as described above. These tests will be done within 3 years of blood collection. The remaining blood will be kept for 15 years and may be used for associated research on allergic reactions, blood abnormalities from snake bite and other markers of snake venom activity when these tests become available or are developed. All samples will be destroyed after 15 years. If you do not want your blood sample to be stored for future research DO NOT check the box on the consent form.

# 6. Possible Benefits

We cannot guarantee that you will receive any benefits from this project except that your treatment will be guided by national experts on snake bite. However, your involvement in the study will significantly contribute to emergency medicine care of snake envenomed patients by either demonstrating that early antivenom administration is effective or not effective for particular clinical syndromes. It will also highlight whether laboratory tests and/or patient retrieval to larger hospitals are necessary reducing associated costs and burden on emergency medicine resources at these larger hospitals.

#### 7. Possible Risks

Important risks for you being part of the study include side-effects to antivenom, however antivenom is administered to hundreds of patients each year with most reactions being allergic and usually mild. On occasion these reactions can be severe requiring treatment with adrenaline. About 1 in 4 people will develop a rash or itchiness following the administration of antivenom. About 1 in 20 people will have a more severe allergic reaction or anaphylaxis which results in a low blood pressure.

#### 8. Injury

In the event that you suffer an injury as a result of participating in this research, hospital care and treatment will be provided by the public health service at no extra cost to you.

#### 9. Privacy, Confidentiality and Disclosure of Information

All records dealing with your participation in this study will be kept under safe storage indefinitely in locked offices and buildings of the investigators. Any information obtained in

connection with this research project that can identify you will remain confidential and will only be used for the purpose of this research project to ensure accurate data linkage between clinical results and laboratory reports.

Data stored on computer will be de-identified (your name will be not be stored in the database) and password protected. 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.

Where study staff identify missing data required for purposes of this research a request will be made to the treating hospital/s for copies of relevant clinical information held in the participants' medical record. Medical information will be accessed, used and stored in accordance with the NSW Health Records and Information Privacy Act (2002).

#### **10.Ethical Guidelines and Approvals**

This project (Reference number:15/02/18/3.03) will be carried out according to the *National Statement on Ethical Conduct in Research Involving Humans* (March 2007) produced by the National Health and Medical Research Council of Australia. This statement has been developed to protect the interests of people who agree to participate in human research studies.

The ethical aspects of this research project have been approved by the Human Research Ethics Committees of Hunter New England Area Health Service as the lead committee for all investigation sites.

## 11. Further Information, Problems

If you require further information or if you have any problems concerning this project (for example, any side effects), please contact the principal researchers. The researcher responsible for this project is **Dr Geoff Isbister** (Mobile: 0438 466471 24hrs/day).

#### 12. Complaints or Concerns

If you have any complaints or concerns about any aspect of the project, the way it is being conducted or any questions about your rights as a research participant, then you may contact the Hunter New England Health Human Research and Ethics Committee (HREC)as below (quote reference number: 15/02/18/3.03):

#### Hunter New England Region

Dr Nicole Gerrand

Manager, Research Ethics and Governance, Hunter New England Local Health Network

Telephone: 02 4921 4950

Email: hnehrec@hnehealth.nsw.gov.au



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#### **Consent Form**

Full Project Title: Randomised controlled trial investigating the effects of early snake antivenom administration (ESAA) and the Australian Snakebite Project (ASP)

I have read and I understand the Participant Information version 5 dated 4th April 2016.

I have had an opportunity to ask questions and I am satisfied with the answers I have received.

I freely agree to participate in these projects (ESAA & ASP)according to the conditions in the Participant Information.

I understand that I will be given a copy of the Participant Information and Consent Form to keep.

I understand that the researcher has agreed not to reveal my identity and personal details if information about these projects is published or presented in any public form.

I understand that there may be occasion for the research staff to request copies of information from my medical record that will allow the completion of the study datasheets and associated information for the study. Specifically I consent to the hospital providing the details of this admission after the event when they are contacted by the research staff.

I consent to being randomised and understand I may or may not receive antivenom.)

Participant's Name (printed)				
* Signature		Date		
Witness Name (printed)				
* Signature		Date		
$\square$ I consent to the storage of any additional blood for further snake bite research projects. Name of Person giving Consent (printed)				
* Signature		Date		

Note: All parties signing the Consent Form must date their own signature.

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#### **Consent Form**

Full Project Title: Randomised controlled trial investigating the effects of early snake antivenom administration and the Australian Snakebite Project (ASP)

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I consent to being randomised and understand I may or may not receive antivenom.)

Participant's Name (printed)				
* Signature		Date		
Witness Name (printed)				
* Signature		Date		
$\square$ I consent to the storage of any additional blood for further snake bite research projects.				
Name of Person giving Consent (printed)				
* Signature		Date		

**FAX completed form to (02)49110501** 

Note: All parties signing the Consent Form must date their own signature.

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## **PATIENT COPY**



Third PartyConsent Form for: Randomised controlled trial investigating the effects of early snake antivenom administration (ESAA) and the Australian Snakebite Project (ASP)

I have read and I understand the Participant Information Statement version <b>5</b> dated <b>04 Apr 2016</b> and have been given the opportunity to ask questions.
I give my permission forto participate in this project according to the conditions in the Participant Information.
I will be given a copy of the Participant Information and Consent Form to keep.
The researcher has agreed not to reveal the participant's identity and personal details if information about this project is published or presented in any public form.
I understand that there may be occasion for the research staff to request copies of information from the medical record that will allow the completion of the study datasheets and associated information for the study. Specifically I consent to the hospital providing the details of this admission after the event when they are contacted by the research staff.
I consent tobeing randomised and understand they may or may not receive antivenom.
Participant's Name (printed)
Person giving Consent Relationship
* Signature Date Date
Witness Name (printed)
* SignatureDateDate
<u>Declaration by Doctor</u> I have given a verbal explanation of the research project, its procedures and risks and I believe that the participant's parent/guardian has understood that explanation.
Doctor's Name (printed)
* Signature Date Date
$\square$ I consent to the storage of any additional blood for further snake bite research projects.
Person giving Consent Relationship Relationship
* Signature Date Date

**Note:** All parties signing the Consent Form must date their own signature

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# Third PartyConsent Form for: Randomised controlled trial investigating the effects of early snake antivenom administration (ESAA) and the Australian Snakebite Project (ASP)

I have read and I understand the Health Participant Information Stat dated <b>04 Apr 2016</b> and have been given the opportunity to ask que	
I give my permission forto participant Information.	pate in this project
I understand that I can keep a copy of this Information and Consent	Form.
The researcher has agreed not to reveal the participant's identity and information about this project is published or presented in any public	-
I understand that there may be occasion for the research staff to req information from the medical record that will allow the completion of datasheets and associated information for the study. Specifically I co hospital providing the details of this admission after the event when by the research staff.	the study nsent to the
I consent tobeing randomised and unders may not receive antivenom.	stand they may or
Participant's Name (printed)	
Person giving Consent Relationshi	ip:.
* Signature Date	e
Witness Name (printed)	
* SignatureDate	e
<u>Declaration by treating Doctor</u> I have given a verbal explanation of the its procedures and risks and I believe that the participant's parent/gunderstood that explanation.	
Doctor's Name (printed)	
* Signature Date	e
$\hfill \square$ I consent to the storage of any additional blood for further snake projects.	bite research
Person giving Consent Relationship	
* Signature Date	۵

Note: All parties signing the Consent Form must date their own