SESLHD PROCEDURE COVER SHEET



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KEY TERMS	Organ and Tissue Donation, Brain death, Neurological death
SUMMARY	To inform staff of the process and requirements for multi-organ and tissue donation after neurological determination of death has been diagnosed within South Eastern Sydney Local Health District.

COMPLIANCE WITH THIS DOCUMENT IS MANDATORY

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Organ and Tissue Donation following Neurological Determination of Death

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1. POLICY STATEMENT

The purpose of this policy is to outline the process of facilitating Organ and Tissue Donation via the Donation after Neurological Determination of Death pathway. This policy is consistent across SESLHD sites, inclusive of St George Hospital, Calvary Health Care Kogarah, The Sutherland Hospital, Prince of Wales Hospital and Sydney/Sydney Eye Hospital, and has been developed in accordance with the NSW Ministry of Health (MoH) and the Australian Organ and Tissue Authority (OTA) guidelines.

2. BACKGROUND

SESLHD supports the facilitation of Organ and Tissue Donation as an option for terminally ill patients that are cared for in critical care areas. The principles in this document are aligned with the Australian New Zealand Intensive Care Society (ANZICS) Statement on Death and Organ Donation (4th Ed), NSW Human Tissue Act 1983, National Health and Medical Research Council – Ethical guidelines on organ and tissue donation and transplantation.

Donation of organs and tissues after death is governed by laws. In 1977, the Australian Law Reform Commission addressed the absence of a definition of death in Australian law, recommending that a statutory definition of death should be introduced. They recommended that death be defined as:

- Irreversible cessation of all function of the brain of the person; or
- Irreversible cessation of circulation of blood in the body of the person.

Whole brain death is required for the legal determination of death in Australia. If the condition causing coma and loss of all brain-stem function has affected only the brain-stem and there is still blood flow to the supratentorial part of the brain (the cerebral cortex), this does not meet the legislative requirements.

In Australia brain death cannot be determined unless there is evidence of severe brain injury sufficient to cause death. Such injury is associated with an increase in the pressure inside the skull which cuts off the blood supply to the brain. Blood flow to the brain ceases and the entire brain, including the brainstem, dies. There is no recovery from brain death.

In accordance with the ANZICs Statement for Death and Organ Donation, this document provides a framework for best practice in end of life care of the neurologically declared deceased patient and providing support for their families and the decision for organ and tissue donation. The fundamental principles for organ and tissue donation within SESLHD include:

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- Donation of organs and tissues is an act of altruism and human solidarity that potentially benefits those in medical need and society as a whole.
- Organ and tissues for transplantation should be obtained in ways that:
 - o demonstrate respect for all aspects of human dignity, including the worth, welfare, rights, beliefs, perceptions, customs and cultural heritage of all involved;
 - respect the wishes, where known (with reference to the Australian Organ Donor Registry (AODR) or family discussion, of the deceased;
 - give precedence to the needs of the potential donor and the family over the interests of organ procurement,
 - o recognise the needs of all those directly involved, including the donor, recipient, families, carers, friends and health professionals.

2.1 Definitions

Australian Organ Donor Register: The Australian Organ Donor Register (AODR) is a government register, recording individuals who have indicated a wish for, or objection to, donation of organs and tissues in the event of their death. The register is administered by Medicare Australia. Australian Government policy requires that the AODR be consulted to ascertain the potential donor's registration status and any recorded wishes, and that the potential donor's family or senior available next-of-kin be informed of these. The AODR is accessed by authorised clinical personnel only.

Brain death: See Neurological determination of death definition

Circulatory death: Death defined by irreversible cessation of circulation of blood in the person's body. Formerly known as donation following cardiac death.

GIVE Trigger/ Routine referral: Notification by hospital staff to the OTDS staff whereby there is a consensus that the patient is at end of life and further treatment is not in the patients best interests

Delegate: Somebody who is chosen to represent or has been given the authority to act on behalf of the SANOK. The delegate must be of the same level in the order of hierarchy (as per NSW Human Tissue Act 1983) as the person who authorised him or her to exercise the functions of a next of kin. The Authorisation to Delegate Responsibilities of the Next of Kin form (clinical form SMR020.031_appendix 2) must be completed.

Designated officer: A person responsible for authorising removal of organs and tissues for transplantation or other therapeutic, medical or scientific purposes. They are also

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responsible for the performance of non-coronial post mortem examination and the release of a body for anatomical examination.

Designated Specialist: Appointed by the Governing Authority of appropriately qualified and experienced medical specialists with 'specialist registration' for the purposes of certifying brain death.

Specialist registration means a person who holds a specialist registration in a recognised specialty in a health profession in accordance with Division 2 of Part 7 of the Health Practitioner Regulation National Law (NSW). For the purposes of this act a person who holds a specialist registration in one of the following specialties as prescribed:

- Emergency Medicine.
- Anaesthetists.
- Intensive Care Medicine.
- o Physicians.
- Surgery
- Obstetricians and Gynaecologists

As outlined by the Human Tissue Regulation 2020 [2020-454]

Donation Specialist Nurse (DSN): A Clinical Nurse Consultant who is a member of the Organ and Tissue Donation Service.

Donation State Coordinator (DSC): A member of the OTDS service, The DSC is responsible for coordinating all aspects of the actual organ donation procedure, ensuring legal and ethical requirements are adhered

Donation Specialist Medic (DSM): Specialised doctor dedicated to the facilitation and management of potential organ and tissue donors who is a member of the Organ and Tissue Donation Service.

Family: Recognising the collaborative nature of end-of-life decision-making, the term 'family' is used to refer to a person or persons who have a close, ongoing, personal relationship with the patient, whom the patient may have expressed a desire to be involved in treatment decisions, and who have indicated a preparedness to be involved in such decisions. This may or may not include biological family. However, it may include relatives, partner (including same sex and de facto), friend, or 'person responsible' according to any expressed wish of the patient.

Intensivist: Refers to Intensive Care physicians.

Life-sustaining treatment: Life-sustaining treatment is any medical intervention, technology, procedure or medication that is administered to forestall the moment of death,

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whether or not the treatment is intended to ameliorate life-threatening diseases or biological processes. These treatments may include, but are not limited to, artificial airways, mechanical ventilation, artificial hydration and nutrition, cardiopulmonary resuscitation, or drugs to support circulatory function.

NSW State Coroner: An independent, appointed government official whom holds jurisdiction over all reported deaths. The reported human deaths to the coroner are then investigated and concluded.

Organ and Tissue Donation Service (OTDS): State service that is responsible for the coordination and management of potential organ and tissue donors and recipients.

Principal Care Officer (PCO): PCO of the designated agency, which has full case management responsibility for the child or young person, automatically becomes the person with responsibility for consent for organ and tissue donation for transplantation.

Senior Available Next-of-kin: as defined in the NSW Human Tissue Act 1983.

In relation to a deceased adult:

- Spouse of the deceased (which includes de facto and same sex partner)
- Son or daughter of the deceased (18 years of age or over), where above is not available
- Parent of the deceased where none of the above is available
- Sibling of the deceased (18 years of age or over), where none of the above is available.

And

- o In relation to a deceased child:
- Parent of the child (both parents have equal standing)
- Sibling of the child (18 years of age or over), where a parent is not available
- Guardian of the child at the time of death where none of the above is available

NSW Organ and Tissue Donation Service (NSW OTDS): is the NSW agency responsible for the coordination of organ and tissue donation for transplantation based at Kogarah within SESLHD. Paging service for the DSC is **02 9963 2801**.

NSW Tissue Bank: The NSW Tissue Bank incorporating the Lions NSW Eye Bank and NSW Bone Bank, is a state-wide service for the identification and coordination of eye, musculoskeletal, skin, and amnion donors.

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3. RESPONSIBILITIES

This procedure applies to all clinical staff working within areas related to organ and tissue donation in SESLHD:

- Hospital Network Executive
- Stream/Site/Service Executive
- Senior Nurse Managers
- Donation Specialist Medical (DSM)
- Donation Specialist Nurse (DSN)
- Donation Specialist Coordinator (DSC)
- Intensive Care units Nursing and Medical staff
- · Emergency departments Nursing and Medical staff
- · Operating theatre nursing and medical staff
- Social Work, and other Allied Health Staff
- Aboriginal Liaison Officers

3.1 Employees will:

- Ensure that the needs and values of the dying person are prioritised at all times
- Ensure best practice end of life care is delivered to all patients, regardless of their intention (or otherwise) to become an organ donor.
- Support DNDD organ donation initiatives where these are consistent with the patient's
 wishes, and where they align with the priority commitment to end of life care. This
 includes recognising potential donors, and facilitating access to organ donation carefully
 and in strict accordance with local, state and national best practice guidelines
- Familiarise themselves with the donor referral criteria and management of potential donors as outlined in these guidelines.
- Approach all activities related to DNDD in a sensitive and thoughtful manner.

3.2 District Managers/ Service Managers will:

The Ministry monitors the performance of the NSW Organ and Tissue Donation Service, Local Health Districts, Specialty Health Networks and other agencies. The Ministry also maintains policy and legislative frameworks to ensure that human tissue is used safely, ethically, and effectively.

SESLHD Organ and Tissue Donation Governance Committee ensures engagement of senior clinicians and the relevant departments, including Senior Hospital Executive, Operating Theatre, Emergency Department, Intensive Care Unit, Social Work and specialist Organ and Tissue Donation staff. This committee oversees the development,

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coordination, implementation and ongoing monitoring of best practice surrounding organ and tissue donation.

3.3 General Medical staff in Critical Care will:

- Familiarise themselves with the donor referral criteria, see item 4.2
- Maintain their required level of knowledge regarding organ donation and end of life care as per the College of Intensive Care Medicine (CICM) and Australian New Zealand Intensive Care Society (ANZICS) guidelines
- Refer to the Donation Specialist Nurse (DSN) and Donation Specialist Medical (DSM) for consideration of organ donation in all patients where withdrawal of life sustaining treatment is planned, and end of life care is the focus of management
- Participate in education and training in order to remain up to date with local guidelines and protocols

3.4 OTDS STAFF will:

Donation Specialist Medical (DSM)

The Donation Specialist Medical is responsible for all processes aimed at optimising organ and tissue donation for transplantation across SESLHD. They are responsible for providing consultancy in all procedures that are associated with donor identification and organ retrieval at their hospital and across the district when required.

In some cases, the DSM may be in a position of potential or perceived duality or conflict of interest, if required to act in both their role as the treating intensivist and the DSM simultaneously. This should be avoided where possible, but where not practicable, this potential conflict should be assessed on a case by case basis. An additional trained specialist should be contacted to be present for any donation conversations, if available, to minimise any potential conflict of interest.

The role of the Donation Specialist Medical in DNDD is:

- To support local hospital staff during the process of donation by making sure local and best practice guidelines are followed
- Ensure that the patient's best interests remain the priority during end of life care
- Where possible, ensure that there is a separation between the clinical team managing the
 patient's end of life, and any clinical personnel engaged in the transplant retrieval process
 or potential recipients care.
- Answer inquiries by the family, nursing and medical staff in regards to the DNDD process, including related ethical and legal issues
- Provide training and education to local staff surrounding guidelines around organ donation
- Assist in the updating of local guidelines as State and Federal guidelines change as well as reporting to governance committees

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Donation Specialist Nurse (DSN)

The Donation Specialist Nurse is to provide an expert patient centred consultancy practice for the clinical management of potential organ and tissue donors and their families via the DNDD pathway. This consultancy care is delivered in collaboration with patients, families and other health professionals, while at all times ensuring the SESLHD core values are upheld.

The DSN role is aligned with the donor and the donor's next of kin, and is primarily concerned with the dying person's best interests. They provide the necessary conduit to the Donation Specialist Coordinators, but are expected at all times to be an advocate for the donor's end of life care.

The role of the Donation Specialist Nurse in DNDD is:

- To provide a conduit between the patient and their treating team, and the local and state transplant infrastructure.
- Maximise respect for the dignity of the dying patient at all times; inclusive of psychological, physical, emotional and spiritual needs of the patient and their family/support people.
- Provide support for the grieving family and loved ones, ensuring this occurs throughout all phases of dying; before during and after cessation of life sustaining treatments
- Ensure sound communication between all relevant teams, adopting a collaborative and inclusive team-work approach to enable smooth facilitation of the DNDD process. This includes:
 - Critical Care staff
 - o OT Staff
 - Social Worker, Chaplains, Indigenous leaders
 - Porter

Donation Specialist Coordinator (DSC) in DNDD:

The DSC is responsible for coordinating all aspects of the actual organ donation procedure, ensuring legal and ethical requirements are adhered to during the retrieval surgery. This includes:

- Education and support for all staff
- Ongoing communication and liaison with the transplant teams
- Clinical leadership within the OT
- Appropriate and respectful care of the deceased post donation surgery

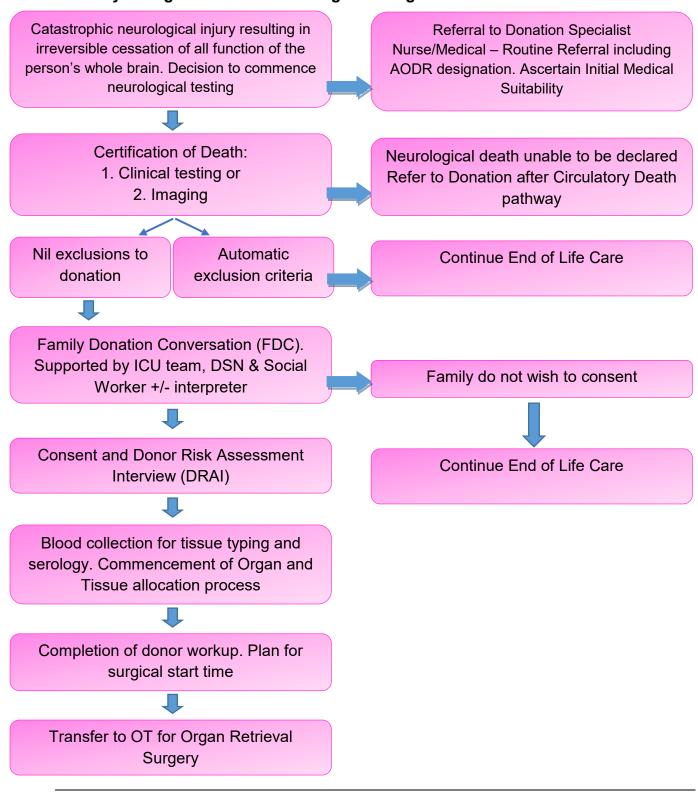


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4. PROCEDURE

4.1 Pathway to Organ Donation following Neurological Determination of Death



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4.2 Identification of a potential organ donor

In critical care areas, the **Clinical Trigger/Routine Referral** is made to consult donation staff when there is medical consensus that a patient is near end of life or when current/future treatment is deemed to be futile and would be burdensome to the patient. A clinical trigger/routine referral can be made by anyone who is in direct care of the patient; including medical, nursing, social work, allied health etc. Local donation staff will conduct a preliminary assessment on the appropriateness of offering donation based on specific patient profile. In circumstances where either the patient themselves or family members have raised donation potential with hospital staff, this should be referred immediately for consultation by the DSN.

Contacts for SESLHD Donation Specialist staff can be made directly 24/7 via hospital switchboards or NSW OTDS paging service.

St George and Sutherland Hospitals	Prince of Wales Hospital	NSW OTDS Service
P. 9113 3520	P. 9382 4872	Paging service on
M. 0413 009 332	M. 0457 409 836	02 9963 2801
M. 0437 389 092	Switchboard: 9382 2222	
Switchboard: 9113 1111		

4.3 Donor referral and coordination:

Referral of all potential organ donors and notification or consultation with the relevant DonateLife hospital team/ DonateLife Agency should occur as early as possible. This enables preliminary assessment of the potential donor and facilitates the timely involvement of an FDC Trained Specialist to assist the clinical team in the planning and provision of patient care, family care and communication. End of life care and the family donation conversation are usually best managed in the ICU rather than the ED and should be provided by a trained specialist.

4.4 End-of-Life Conversations and Planning

It is the responsibility of the Intensive Care team to ensure that they have discussed the likely prognosis and the plan for end of life care and neurological testing with the patient and their family. This should be conducted separately from any discussion regarding the possibility of organ donation. The DSN may be encouraged to attend end of life discussions at the request of the treating team where appropriate.

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Decision making should align with the patient's values and preferences wherever possible, and end of life care is and will remain the principle focus regardless of organ donation preferences and eligibility. For treating medical teams, management should be consistent with the ANZICS Statement on Care and Decision-Making at the End of Life for the Critically III.

4.5 Determination of Neurological Death as outlined by the ANZIC Statement on Organ Death and Organ Donation

- Permanent loss of brain function should always be determined whenever it has occurred
 and determination regardless of whether donation is being considered. The rigour of
 neurological determination of death provides certainty to the patient's family that an
 individual who meets criteria is dead, irrespective of organ donation.
- For neurological determination of death to be conducted, there must be definite clinical or neuroimaging evidence of acute brain pathology consistent with deterioration to permanent loss of all neurological function. In cases of hypoxic-ischaemic encephalopathy, clinical history alone may provide sufficient explanation of the acute brain pathology and not require neuroimaging prior to neurological determination of death by clinical examination.
- Physicians should adhere to the ANZICS Neurological Determination of Death (section 1.2 page 13) and ensure that all preconditions and observational periods are met prior to clinical tests

4.6 Preconditions to clinical examination

Please refer to 1.2.1 Preconditions of the ANZICS Statement (page 14).

If any of these preconditions cannot be met, brain perfusion studies should be used to inform neurological determination of death.

For neurological determination of death to be conducted, there must be definite clinical or neuroimaging evidence of acute brain pathology consistent with deterioration to permanent loss of all neurological function. In cases of hypoxic-ischaemic encephalopathy, clinical history alone may provide sufficient explanation of the acute brain pathology and not require neuroimaging prior to neurological determination of death by clinical examination.

4.7 Observation & Waiting periods

There is a minimum 4-hour observation period prior to neurological determination of death using clinical examination alone. Throughout this observation period, all preconditions are met, the patient has a Glasgow Coma Scale of 3, with pupils nonreactive to light, absent cough/tracheal reflex and apparent apnoea on a ventilator. Following an acute hypoxic-ischaemic encephalopathy or hypothermia (<35°C) of duration greater than 6 hours, there

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should be a waiting period of 24 hours before determination of death using clinical examination alone.

4.8 Process of Clinical Examination

Physicians should adhere to the ANZICS Clinical Examination (section 1.2.2) for the process of clinical examination. Confirmation of death is documented on the NSW Health Certification of Brain Death form SMR010517 (Appendix 1). The official time of death is recorded as the time when the **second** clinical examination has been completed or at the time when second clinician has reviewed the absence of intracranial blood flow on imaging.

4.9 Family presence during clinical examination

The opportunity to observe the clinical examination of brain function should be offered to family members. If the family are to be present, the intensivist should explain the tests and responses, particularly forewarning them of the possibility of spinal reflexes. There must be someone available (e.g. a nurse, SW) to support the family.

4.10 Demonstrating absence of brain perfusion via medical imaging

In situations where the clinical examination cannot be solely relied upon for neurological determination of death, it is essential to undertake imaging to demonstrate the absence of brain perfusion. When imaging is required, it must be preceded by undertaking those parts of the clinical examination that are possible. Testing for brain perfusion should be deferred until responsiveness, examinable brainstem reflexes and breathing effort are all absent.

Imaging tests must have a high sensitivity and, most importantly, a specificity of 100% to avoid the false conclusion that brain perfusion is absent in a person who does not meet neurological criteria for death. The three acceptable imaging techniques for demonstrating absent brain perfusion are:

- intra-arterial catheter angiography,
- radionuclide imaging and,
- computed tomography angiography (CTA)

A CTA is acceptable subject to the radiologic guidelines set out in the ANZIC Statement on Death and Organ Donation (pg. 21); where intra-arterial catheter angiography or radionuclide imaging is not readily available, because more proximal intracranial arteries (Circle of Willis, A1, M1, P1) may show contrast enhancement when there is permanent loss of brain function. This enhancement is a reflection of the high sensitivity of CTA to small amounts of contrast that may admix within the Circle of Willis in the absence of brain perfusion.

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Although the absence of brain perfusion is determined by a radiologist or nuclear physician, *it is the responsibility of two medical practitioners* who have clinically examined the patient to determine that the patient has died.

4.11 Family Donation Conversation (FDC)

All discussions surrounding Organ and Tissue donation should be conducted in accordance with the <u>Best Practice Guideline for offering Organ and Tissue donation in Australia</u>.

Raising donation with a family must be part of a considered process that best meets the needs of the family. Organ and tissue donation occurs at a time of grief and distress, and the donation process must be sensitive to the needs of the patient and the family at this time. Ideally, family conferencing should be conducted in a suitable private place, with consideration to the balance of clinical staff present in relation to family members. Family's should be afforded the necessary time and space to process all information and ask questions in order to make a considered decision.

In SESLHD, donation will be raised by a clinician who has completed the Core Family Donation Conversation (cFDC) workshop. This is done as a collaborative approach, with involvement from Donation Specialist nursing, medical and allied health staff.

Inquiries should be made to find out if the patient has appointed an enduring guardian and if so, what functions the patient has assigned to them.

Inquiries should be made to find out if the patient has an Advance Care Directive, and if so, whether the patient expressed specific views about end of life care or organ donation.

6. CONSENT

Deceased organ donation is governed by the Human Tissue Act 1983. The Human Tissue Act 1983 makes specific provisions for obtaining consent and authorisation for the removal of organs and tissues for the purposes of donation, and subsequent transplantation to a living person, or for other therapeutic, medical or scientific use of those donated organs and tissues.

NSW Health Policy Directive (PD2020 012)- Deceased Organ and Tissue Donation - Consent and Other Procedural Requirements

6.1 Seeking consent

The process of authorisation for organ and tissue donation requires consent from the following:

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- The patient (where possible). Where first person consent is not possible, a documented intent on the AODR to be an organ donor and/or via a valid advance care directive is guiding
- Senior Available Next-of-Kin (SANOK) or Delegate
- NSW State Coroner (where applicable)
- Designated Officer
- Principle Care Officer (PCO) if the patient is a child

6.2 The patient

Registration of a prior wish to be an organ donor on the AODR supports organ and tissue donation to take place once verified by the Designated Officer of the hospital site. This may also be in the form of a documented Advanced Care Directive

<u>NOTE</u>: A registered refusal does not necessarily mean organ and tissue donation cannot proceed under NSW Legislation. The designated officer may authorise the removal of tissue of the deceased patient, but only if the family/SaNOK have expressed with certainty more recent wishes of the potential donor.

6.3 SANOK and Delegate

Once consent is obtained, this is verified by signing the Consent and Authority for Removal of Tissue after Death form (SMR020.030_appendix 3), or by a taped verbal consent if obtained over the phone by the DSN. Refer to definitions for the hierarchy of people eligible to be SANOK.

If a deceased person had documented their wish to be an organ donor but a health practitioner determines that the removal of tissue should not proceed due to the objection of the deceased person's family, then the relevant health practitioner must document the reasons for not proceeding, and complete the Documenting Family Objection to Organ Donation Contrary To Known Wishes Of the Donor form (SMR010.516 appendix 5).

6.4 Coronial consent

In cases where death is reportable to the Coroner, donation requires the prior authorisation of the Coroner. It is the responsibility of the DSC to seek authorisation for organ and tissue donation from the Coroner. Initially this requires a discussion with the investigating Police and Duty Forensic Pathologist (FP). The Coronial Checklist should be utilised to determine if a death should be reported to the Coroner. Where doubt exists as to whether a death should be reported, the treating Intensivist should contact the Duty FP to discuss.

It is encouraged that the Designated Officer be present for the conversation when Coronial authorisation is obtained. Donation surgery cannot commence until authorisation

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from the Coroner and Designated Officer is obtained. For further information please the following link

Coroners Cases and the Coroners Act 2009

6.5 DO consent

A Designated Officer may authorise removal of tissue if the deceased patient had expressed a wish in advance of death to be a donor of organs and tissue. Authorisation will not be granted if the patient had revoked a previous affirmatory wish, or expressed an objection to organ and tissue donation. Authorisation from a Designated Officer is required following the declaration of death. A Designated Officer must therefore be informed of all relevant details before life sustaining treatment is withdrawn, and available from the time of WCRS to certification of death or DCDD stand down. Information regarding the role and responsibilities of the Designated Officer can be found in the Designated Officer Policy and Procedure document.

7. PREPARING FOR ORGAN PROCUREMENT SURGERY

Patient will be transported to OT by anaesthetic personnel in conjunction with hospital staff and donation specialist (if required).

Documentation required to accompany the patient to the peri-operative suite is based on local polices and can include, but is not limited to:

- Certification of brain death
- Consent and authority for removal of tissue after death,
- Death certificate or Form A,
- Coronial check list
- Authorisation to delegate responsibilities of NOK and all available patient notes.(Appendix
 2)

7.1 Care of the patient post operatively:

Operating staff and the DSC will attend to the care of the deceased's body after the completion of donation surgery. This is to be conducted as per local policy. Special consideration is taken into account when there are specific requests made by the donor family. Please note that the patient may be transferred back to the ICU for a viewing and care of the deceased will be the responsibility of staff taking over care in the ICU.

POWH/SSEH CLIN118 CBR Death- Care of the Patient After

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SGSHHS CLIN086 CBR DEATH-CARE OF THE BODY AFTER

7.2 Family viewing

At the completion of surgery, the family have the option to see their loved one prior to transfer to the mortuary. This time can be important for some families and significant others. Ongoing support of the family may be required, from ICU doctors and nurses, donation staff, social work, religious or cultural leaders, or other relevant support persons where appropriate. Memory making activities may be offered at this time.

7.3 Care for staff:

Debrief for all staff involved should be offered following every donation case. Attendance is voluntary and at the discretion of the staff involved. Similarly, staff members who were in the direct care of the potential donor should have the opportunity to receive information regarding the donation outcomes. Correspondence must align NSW privacy legislation. If further support is required for staff, professional counselling is encouraged and available from SESLHD Employee Assistance Program (EAP).

Other organisational strategies used to mitigate staff grief and distress should be facilitated through local initiatives. Examples of these include debriefing after the event.

8. DONOR FAMILY FOLLOW-UP

In addition to the referral and consent process, the DSN should ensure that the following steps are completed prior to WCRS to prevent any harm or distress to donor families during the follow up process:

- Ascertain if the family would like to complete a NSW OTDS Memory Book (handprints, lock of hair, photos of hands), if not already done by the local ICU team.
- Identify the family members requesting follow up, and obtain contact details and enter these into the EDR. The number of family members should be limited to 2-3 where possible.
- Note any special requests regarding contact e.g. one person nominated as spokesperson; individual differences within family as to amount of information desired etc.
- Note and respect any request for "no further contact", and document this decision.
- Briefly outline the Family Support Program

5. DOCUMENTATION

Bedside Guide for Organ Donation – Appendix 4

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6. AUDIT

Not Required

7. REFERENCES

This procedure document should be read in conjunction with the following NSW Ministry of Health policies and guidelines:

- ANZICS The Statement on Death and Organ Donation. Edition 4 2019
 https://www.anzics.com.au/wp-content/uploads/2020/01/ANZICS-Statement-on-Death-and-Organ-Donation-Edition-4.pdf
- ANZICS Statement on Care and Decision-Making at the End of Life for the Critically III Edition 1.0 2014
 - https://www.anzics.com.au/wp-content/uploads/2018/08/ANZICS-Statement-on-Careand-Decision-Making-at-the-End-of-Life-for-the-Critically-III.pdf
- Best Practice Guideline for Offering Organ and Tissue Donation in Australia https://donatelife.gov.au/resources/clinical-guidelines-and-protocols/best-practice-guideline-offering-organ-and-tissue
- NSW Legislation Human Tissue Regulation 2020
 https://www.health.nsw.gov.au/legislation/Documents/human-tissue-regulation-2020.pdf
- PD2005_406 Consent to Medical Treatment Patient Information http://www0.health.nsw.gov.au/policies/PD/2005/PD2005 406.html
- GL2005_057 Guidelines for End-of-Life Care and Decision-Making http://www0.health.nsw.gov.au/policies/gl/2005/GL2005 057.html
- GL2014_008 Organ Donation After Circulatory Death. NSW Guidelines https://www1.health.nsw.gov.au/pds/Pages/doc.aspx?dn=GL2014 008
- PD2010_054 Coroners Cases and the Coroners Act 2009 http://www0.health.nsw.gov.au/policies/PD/2010/PD2010_054.html
- PD2013_002 Designated Officer Policy and Procedures
 (http://www0.health.nsw.gov.au/policies/pd/2013/PD2013_002.html)

8. REVISION AND APPROVAL HISTORY

Date	Revision No.	Author and Approval
February 2013	1	Eleni Zahou and Lisa O'Reilly
March 2013	2	Reviewed by Christine Maree Ross
April 2013	3	Reviewed and approved by Dr Gordon
		Flynn

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COMPLIANCE WITH THIS DOCUMENT IS MANDATORY



Organ and Tissue Donation following Neurological Determination of Death

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July 2016	4	Written by Eleni Zahou Document reviewed by Dr Tejo Kapalli and Dr Gordon Flynn (ICU Staff Specialists and Donation Specialist Medical)
		Document reviewed by Suzanne Schacht (Nurse Manager - Cardiac and Respiratory and Critical Care Clinical Streams)
November 2016	4	Draft for Comment
March 2016	4	SESLHDPR/231 updated and published on SESLHD Policy webpage – minor update
November 2020	5	Minor review: Change to terminology – Brain Death now referred to 'Neurological Death'; updated information to align with new ANZICS statement on death and organ donation Completed review by DSNs CVR, LOR, CB
May 2021	5	Completed Review by DSMs



Organ and Tissue Donation following Neurological Determination of Death

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9. APPENDICES

Appendix 1

120	ils	FAMILY NAME		MRN
N	Health	GIVEN NAME		☐ MALE ☐ FEMA
Fa	cility:	D,O,B,///	M.O.	
		ADDRESS		
	CERTIFICATION OF			
		LOCATION / WARD		
	BRAIN DEATH	COMPLETE ALL DETAI	I S OP ACCIV D	ATIENT LABEL HERE
(\$3	the purposes of the law of NSW, a person has died wh t(a) of the Human Tissue Act 1983) A designated office splantation unless each of 2 medical practitioners has	en there has occurred: irreversible cessi r shall not give an authority to remove tis	ation of all function	n of the person's brain.
Kn	own cause of irreversible loss of brain f e is acute brain pathology consistent with the irreversible loss	unction		
	tor A: Specify candition			
	tor B: Specify condition			
isch	the determination of brain death by clinical examination there tatlent has unresponsive come, with pupils non reactive to lig semic encephalopathy, brain death testing should be delayed period began at (Date and time)	ht, absent cough/tracheal reflex and no sport	ion and mechanical aneous breathing e	ventilation during which fforts. In cases of hypoxic
	termination of brain death by clinical ex	amination *	Doctor	
Pre	conditions		Please	
	Hypothermia is not present – temperature is > 35			°C°C
	Blood pressure is adequate (eg MAP>60 in an a	dult)		
	Sedative drug effects are excluded			
	There is no severe electrolyte, metabolic or endo	ocrine disturbance		
	Neuromuscular function is intact It is possible to promise the basis of the control of			
	It is possible to examine the brain-stem reflexes	(including at least one ear and one eye)		
	 It is possible to perform apnoea testing 			
	nical Testing			
	There is no motor response in the cranial nerve of			
	the face, trunk and four limbs and there is no res	ponse in the trunk or limbs to noxious		
	stimulation within the cranial nerve distribution			
	there are no pupillary responses to light There are no corneal reflexes			
	and the same of th		1 7	
		d colorio testino	1 8	
		-		
	,		pCO,	pCO ₃
	Specify pCO ₂ in mmHg or kPa (circle one) and p	n at end of apricea	pH	pH
Det	ermination of brain death when clinical	examination cannot be done:	Doctor A Please	Doctor B Please √
	There is no intracranial blood flow, and			
	This has been demonstrated by either intra-arts reliable method.	erial angiography or other suitably		
	reliable method			
	(Specify)			
Ne per	have determined, according to the abov on's brain has occurred	e procedures, that irreversible	e cessation o	of all function of t
Doc	tor A (Name):	Doctor B (Name):		
Des	ignation:			
Sign	nature:			
-	and time of assessment:			
_				
Dat	and time of death (end of the assessm	ent by second doctor):		

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Appendix 2

		FAMILY NAME	MRN	
	NSW GOVERNMENT Health	GIVEN NAME	☐ MALE ☐ FEMALE	
	Facility:	D.O.B/ M.O.		
		ADDRESS		
	AUTHORISATION TO DELEGATE			
0031	RESPONSIBILITIES OF NEXT OF KIN	LOCATION / WARD COMPLETE ALL DETAILS OR A	FEIX DATIENT LADEL LIEDE	
SMR02C	s5A of the <i>Human Tissue Act 1983</i> provides that a ne his or her functions under the Act as a senior available. Name of deceased: MRN:	ext of kin may authorise, in writing, able next of kin of the deceased person	another person to exercise on.	
	Full name of next of kin:			
	Surname: Firs	t name:		
	Of (Address):			
	Relationship to deceased:			
AS2828.1: 2012 - NO WRITING	Statement by senior available next of kin: I hereby authorise;			
AS282	Surname: First	name:		
as per RGIN	(Full name of delegate)			
hed a MAR	Of (Address):			E
Holes Punched as per BINDING MARGIN	To exercise my functions as senior available next of kin in retention and use of tissue for organ and tissue donation for medical, scientific or therapeutic purposes.	ncluding giving of consents for post mo after death for the purpose of transpla	ortem examination and the intation into a living person or	AUTHORISATION TO
Ch.	Print name of senior available next of kin:		5	등
C;			ES	Z
	Signature: Date:		2	
	I acknowledge and accept the responsibilities of next 1983.	of kin as delegated to me under s5	A of the <i>Human Tissue Act</i>	ELEGATE
	Print name of authorised person (Delegate):			
			Ž	
	Signature: Date:			
m			g	2
200613			5	
NH606616			WMR020.03	2
NH6	NO V	VRITING		2
	NO V		Page 1 of 1	

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Appendix 3

		FAMILY NAME			MRN	
N	ISW Health	GIVEN NAME			☐ MALE	☐ FEMALE
Fa	acility:	D.O.B//		M.O.	•	
	-	ADDRESS		'		
	CONSENT AND AUTHORITY FOR					
ළ F	REMOVAL OF TISSUE AFTER DEATH	LOCATION / WARD				
R020030	is form is to be completed for removal of tissue after d	COMPLETE ALL D	DETAIL	SORAFFI	X PATIENT LA	BEL HERE
and and	d/or for other therapeutic or medical or scientific purpo	se(s).	ranspia	ntation to	the body of a	living person
B.	the Authorisation by Designated Officer). Or Consent of senior available next of kin / dele Or Consent by audio or audio-visual recording by Designated Officer	gate (Attach written auth	norisati	on of deleg	gate if applica	ible)
	Audio Recording No Date _					
1, (1	Print name)				Ag	e
1.	ddress of senior available next-of-kin) reby state: I have no reason to believe that the deceased h Heart/Cardiovascular tissue (heart valves) Pancreas/Pancreas islets Musculoskeletal tissue (bones from upper and	□ Lungs □ Kidnevs	□ Live	er 🗆	Intestine	
Fro	knees and ankles) Section of spleen for research Other (please specify) Blood vessels, lymphoid tissue a section, of splettching and transplantation purposes will be routin in his/her body after death for the purpose of Transplantation to the body of a living person Use for other therapeutic purposes or medical consent to the removal of the above mentioned	een and blood for tissue ely retrieved. and/or I purposes or scientific p I tissues for such purpos	e typin urpose es.	g, disease s.	e screening,	cross
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NA.		FAMILY NAME	_ N	1RN
NSW L	lealth	GIVEN NAME		MALE FEMALE
Facility:	lealtii	D.O.B/	M.O.	
acility.		ADDRESS		
	SENT AND AUTHORITY FOR			
REMOV	AL OF TISSUE AFTER DEATH	LOCATION / WARD COMPLETE ALL DETAILS	OD A FEIV DAT	TENT LADEL LIEDE
he decease	tissue cannot be authorised without written co d did not provide written consent during their li means, the Designated Officer cannot authoris	nsent of the deceased or the consifetime and no next of kin is availa	ent of a senior	available next of kin. If
	Designated Officer)			
Hereby stat 1. Th tis: de Or 2. He	e that, having made such enquires as are readle above named deceased person had during sue from his/her body for the purpose(s) set occased's written consent document);	his/her lifetime, consented in wout below and that he/she had not had not during his/her lifetime, ex	riting to the rer ot revoked the opressed an ob	noval after death of consent (attach sjection to the removal
of red	tissue from his/her body after his/her death, o cent views expressed by him/her, he/she no l	or, if he/she had expressed such onger had an objection to the re	an objection, moval of tissue	based on the most e from his/her body
3. Th	at the senior available next of kin or their delensent to the removal after death of tissue from	egate has provided written consons the deceased's body for the po	ent, or an audi urpose(s) set c	o or audio visual out below
	here applicable that the consent of the Coron bject to the following conditions:	er to the removal and use of tiss	sue after death	has been given
(Canaify Co	oroner's conditions on removal and use of tiss	sue if applicable)		
(*(BI m *= = frc	ereby authorise the removal of the following to delete if not applicable) ood vessels; lymphoid tissue; section of the satching and transplantation purposes. Heart/ Cardiovascular tissue (heart valves) Pancreas/Pancreas Islets Musculoskeletal tissue (bones from the upper on the knees and ankles) Section of spleen for research	spleen and blood for tissue typing □ Lungs □ Live □ Kidneys □ Eye	g. Blood for dis er □ Intes	sease screening, cross
	Other (please specify)	I d blood for tippup typir	an dienaen er	reening cross
matching From his/h	I vessels, lymphoid tissue, a section of sp and transplantation purposes. er body after death for the purpose of (*delet Transplantation to the body of a living person Use for other therapeutic purposes or medic (Designated officer)	e if not applicable): n:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Data	/ /	
Designatio	n:	Date:	, <u>,</u>	
Definitions				
Designated	Officer: A Designated Officer means: a relation to a hospital, a person appointed under	s5 (1) (a) of the Human Tissue Act 1	983, to be a De	signated Officer for a
la d	ospital, or relation to a forensic institution, a person appointe			
60	the forencie institution or			-
• In	relation to a private hospital within the meaning of	s the licensee) of the hospital		Act 1998 a person
Hierarchy o	of Next of kin: Next of kin of a deceased adult mea	ans, in the following order of seniority	imediately befor	e the persons death
af	here the deceased person has no spouse or the spatial tale age of 18 years		inter or the dece	assa person, who has
3. w	here no person referred to in lor 2 is not available, here no person referred to in 1, 2 or 3 is available, a of a deceased child means, in the following ord	brother or sister of the deceased pe	rson, who has at	tained the age of 18 years
Next of kin				
4 -	parent of the child here a parent to the child is not available, a brother		ained the age of	18 years:



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Appendix 4



Incorporating: NSW Bone Bank Lions NSW Eye Bank Australian Ocular Biobank



Donor Management Guidelines

Cardiovascular Management MAP 60-80mmHg	HR <120bpm	CVP 6-10mmHg
---	------------	--------------

Hypertension MAP >110mmHg	Short acting beta blocker (esmolol 0.1 – 0.3mcg/kg/min) Vasodilator (sodium nitroprusside 1-5mcg/kg/min)
Hypotension MAP <60mmHg	Hypovolemia Replace volume – Avoid hyperchloremia and hypernatremia and starch based colloids Blood transfusion- if Hb <70g/L Vasopressors – (preference) Noradrenaline if >0.2mcg/kg/min then commence vasopressin (1-2.4unitrs/hr.) may allow for reduction of Noradrenaline requirements.
Arrhythmias	Normalise physiology – maintain serum electrolytes (optimise K+, Mg+ Ca ²⁺), optimise fluid status, normalise temperature. SVT & VT arrhythmia management – Standard arrhythmia management should be initiated (amiodarone, cardioversion) Bradycardia – Adrenaline, Isoprenaline or pacing. Normally resistant to atropine or glycopyrolate.
Hypothermia	Ensure temperature is maintained >36°C bair hugger for temp <36°C
Hormonal replacement therapy	Unstable patients when MAP<60mmHg, CVP>12mmHg, Noradrenaline >0.2mcg/kg/min or LVEF<45 or major LV wall motion abnormality T3 4mcg/hr. Methylprednisolone 15mg/kg

Respiratory Management Aim ph. 7.35- 7.45 pCO2 35-45mmHg pO2 >80mmHg Sats >95%

Hypoxaemia	TV 6-8mls/kg
	PEEP 5-10mmHg
	Plateau PIP <30cmH20
	Normocapnia = pCO2 35-45 normal pH
	FiO2= lowest possible to maintain PaO2 >100mmHg and SaO2>95%
	Head Of Bed > 30 degrees
	Add broad spectrum antibiotics if clinically indicated
	Lung Recruitment
	Early and continuous physiotherapy 4/24, suctioning and repositioning to promote alveolar recruitment
	Optimisation of fluid management
	Aim for a negative fluid balance if cardiovascular stability allows this to occur.

Fluid Management

Diabetes Insipidus (DI)	Commence a vasopressin infusion or DDAVP if U.O. >3mls/kg for 2 consecutive hours associated with rising plasma sodium. Urine Osmolality Vasopressin infusion – max 2.4 units/hr. DDAVP 2-4 micrograms every 2-6 hours Fluid replacement – use low Na concentration as free water is lost & hypernatremia develops. Use 5% dextrose or 0.45% Saline or Hartman's
Hypernatremia Na>155mmol/L	Remove all sources of sodium in IV solutions
Hyperglycaemia	Insulin infusion recommended aim BSL 6-10mmol/L

Ministry of Health, NSW. Management of the Adult Brain Dead Potential Organ and Tissue Donor http://www1.health.nsw.gov.au/pds/ActivePDSDocuments/GL2016_008.pdf

Draft v.2 Potential donor requirements 2017

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NSW Organ & Tissue

Bedside Guide For Organ Donation

Continuous monitoring of ECG, invasive BP, CVP, Sp02, intake, inotrope support and output. Positioning, chest physiotherapy, mouth and eye care to be carried out as per ICU protocols

Lions NSW Eye Bank

Test	Freq.	Dne	Dne	Due	Due	Due
EUC/CMP/LFT/FBC/COAGS	6/24					
Lipase and Amylase	once					
CK and Troponin	once					
ABG on FiO2 1.0 PEEP 5 (20 mins)	4/24					
ABG on vent settings	once					

Pre Op preparation	Cease feeds @	Pre Op checklist	2 ID bands	1 page pt. labels (min 30)	Admission front sheet	Pre Op wash and shave	Death Cert or Form A	Formal Police ID prior to OT (BD	only)	Coronial checklist	
lime courier	departs:	odes tesses	repeat ecno								

Time courier departs:

Time bloods

Box 1 & Box 2 bloods

HbA1C (pre-diabetics/diabetics only) Subtype if A or AB ordered/printed Group and hold ordered/printed

BHCG (females <50yrs C.O.D ICH)

taken:

er requests		

ner requests		

hours post	Other requests		

		13	T2 Ctart time.
Investigations	٨	13	o oralle cillie.
Urinalysis		ronnencement	
CXR and report		- repeat ecilo 4	
ECHO and report		nouls post	
ECG and Report		Othor rocks	
Cultures-Urine/Sputum/Blood		ornei reduests	
Routine MRSA/VRE swabs if not done			
Chest CT			
Coronary Angiogram			
Bronchoscopy			

required.
not
are
that
procedures
investigations/
the
trike through
N.BS

Donation Specialist Contact:

02.18

Memory items for family Cremation certificate

، مهد عد Jf 25

Weight Kg Height cm

Girth cm

Bronchoscopy

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Appendix 5

NSW Health			GIVEN NAME			□ MALE	☐ FEMALE					
GOVERNME	Health				M.O.	L WALL	L PEWALE					
Faci	lity:	ADDRESS										
OR	CUMENTING FAMILY OBJECTION GAN/TISSUE DONATION CONTRA THE KNOWN WISHES OF THE DO	ARY LOCATION /		-TAIL C	OD AFFIX F		DEL LIEDE					
Cons	NSW Human Tissue Act 1983 and Polisent and other Procedural Requirementable next of kin's objection to organ/tiss death, and where donation does not proceed the control of	icy Directive PD2 ts require reques	ting clinicians ere it is know	ceased s docui	Organ an	d Tissue i	<i>Donation</i> r senior					
In tha	at circumstance this form must be competion and should be signed by the Designed	pleted by the req			icating the	reasons	for family					
sust: Direc	decision to not proceed with organ/tiss ained family objection in spite of app ctive PD2013_001 Deceased Organ an er information.	propriate inform	ation provis	ion ar	d time to	reflect."	See Policy					
further information. Details of information provided to the family (e.g. seeking family support for known donor wisher misperceptions):												
Details of senior available next of kin:												
Surna	ame:	First	Surname: First name									
Relationship to deceased: Other significant family members or individuals close to the patient who were involved in the discussion Details of objections or reasons raised by the senior available next of kin or family: Verbal withdrawal of consent by patient; Family believed that religious considerations make donation inappropriate; Family believed that cultural considerations make donation inappropriate; Family believed patient would not want to donate; Family had an aversion to the idea of organ donation; Family did not accept that death was imminent or had occurred; Family not prepared to wait for time required to organise donation:												
Relat	tionship to deceased:											
	tionship to deceased:r		patient who w	ere inv	volved in th	ne discuss	sion					
Other	r significant family members or individu	ıals close to the μ				ne discuss	sion					
Othe		y the senior ava				ne discuss	sion					
Othe	r significant family members or individu	y the senior ava	ilable next c	of kin d	or family:	ne discuss	sion					
Other	r significant family members or individual ils of objections or reasons raised b Verbal withdrawal of consent by patie Family believed that religious conside	y the senior ava	ilable next o	o f kin d	or family:	ne discuss	sion					
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Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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NSW	GIVEN NAME		☐ MALE	☐ FEMALE	
Facility:	D.O.B//	M.O.			
Facility:	ADDRESS				
DOCUMENTING FAMILY OBJECTION TO					***
ORGAN/TISSUE DONATION CONTRARY	LOCATION / WARD				
TO THE KNOWN WISHES OF THE DONOR	COMPLETE ALL DETAILS	OR AFFIX F	PATIENT LA	BEL HERE	
Were there any extenuating family or patient cirproceed with donation? No Yes If so, describe				to not	
Requesting clinician					
Print name:					
Designation:					Holes
					Pun
Signature of Requesting Clinician		D	ate:/	/	ched MA
					as p
Designated Officer					N - A
I confirm that the donation will not proceed because documentation and confirm that reasons for family	objection are cited.				Holes Punched as per AS2828.1: 2012 BINDING MARGIN - NO WRITING
Print name:					G) N
This is a second of the second					
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Signature of Designated Officer:	16	D	ate:/	/	
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Page 2 of 2	NO WRITING				