SESLHD PROCEDURE COVER SHEET



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AUTHOR	Donation Specialist Nurse(s)
POSITION RESPONSIBLE FOR THE DOCUMENT	Donation Special Nurse – Clinical Nurse Consultant <u>Lisa.OReilly@health.nsw.gov.au</u> <u>Cydne.Williams@health.nsw.gov.au</u> <u>Sharna.Gilchrest@health.nsw.gov.au</u>
FUNCTIONAL GROUP(S)	Critical Care and Emergency Medicine
KEY TERMS	Organ and Tissue Donation, Brain death, Neurological death
SUMMARY	To inform staff of the process and requirements for organ and tissue donation after neurological determination of death 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**

SESLHDPR/231

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 (Ed 4.1), 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.

In Australia, neurological determination of death, formerly known as 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 cutting off the blood supply to the brain. Blood flow to the brain ceases and the entire brain, including the brainstem, dies.

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 deceased patient and providing support for families in their decision surrounding organ and tissue donation. The fundamental principles for organ and tissue donation within SESLHD include:

A) Donation of organs and tissues is an act of altruism and human solidarity that potentially benefits those in medical need and society.

Version: 5.1 Ref: T12/12035 Page 1 of 24 Date: 21 October 2024



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

- B) Organ and tissues for transplantation should be obtained in ways that:
 - 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 recovery surgery for transplant
 - recognise the needs of all those directly involved, including the donor, recipient, families, carers, friends, and health professionals.
- C) Organs and tissues should be allocated according to just and transparent processes.
- D) The choice not to donate should be respected and the family shown understanding for the decision.

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.

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 Senior Available Next of Kin 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. The designated

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 2 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

officer is also responsible for the performance of non-coronial postmortem examination and the release of a body for anatomical examination.

Designated Specialist: A person appointed by the Governing Authority as an appropriately qualified, and experienced medical specialist 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.
- o Anaesthetists.
- o 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 Working within SESLHD who is a member of the NSW Organ and Tissue Donation Service (OTDS).

Donation State Coordinator (DSC): A Clinical Nurse consultant employed by the NSW Organ and Tissue Donation service (OTDS).

Donation Specialist Medical (DSM): An intensive care medical specialist dedicated to the facilitation and management of potential organ and tissue donors working within the SESLHD.

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 their treatment decisions, and who have indicated a preparedness to be involved in such decisions. This may or may not include biological family and may include extended relatives, a partner (including same sex and de facto), friend, or 'person responsible' according to an expressed wish of the patient.

Intensive Care Specialist: Refers to an Intensive care physician.

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

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 3 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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 medication to support circulatory function.

Neurological Determination of Death (NDD): refers to death determined by 'irreversible cessation of all function of the brain'. (ANZICS_2019_4 ED) This was previously known as brain death. Donation via the neurological determination of death pathway can be referred to via the accepted abbreviated acronym **DNDD**.

NSW Organ and Tissue Donation Service (NSW OTDS): The NSW agency responsible for the coordination of organ and tissue donation for transplantation based at Kogarah: SESLHD hosted service.

NSW State Coroner: An independent, appointed government official who holds jurisdiction over all reportable deaths as defined by the Coroners Act 2009 No 41.

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.

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

Routine referral/ Notification: 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.

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
- o 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:

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 4 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

- 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
- o Guardian of the child at the time of death where none of the above is available.

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 always prioritised.
- 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.

The SESLHD Organ and Tissue Donation Governance Committee ensures engagement of senior clinicians and the relevant departments, including Senior Hospital Executive,

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 5 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

Operating Theatre, Emergency Department, Intensive Care Unit, Social Work and specialist Organ and Tissue Donation staff. This committee oversees the development, 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 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, donor management 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 intensive care specialist 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 recipient's care.
- Answer inquiries by the family, nursing, and medical staff regarding the DNDD process, including related ethical and legal issues.

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 6 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

- 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.

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 always ensuring the SESLHD core values are upheld.

The DSN role is aligned with the donor and the donor's family and is primarily concerned with the dying person's best interests. They provide the necessary conduit to the Donation Specialist Coordinators; however, they are always expected 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.
- Always ensure respect for the dignity of the dying patient; 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 acts as the conduit between the donor and the transplant services, responsible for coordinating aspects of the surgical donation procedure, ensuring legal and ethical requirements are adhered to throughout the process. 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

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 7 of 24

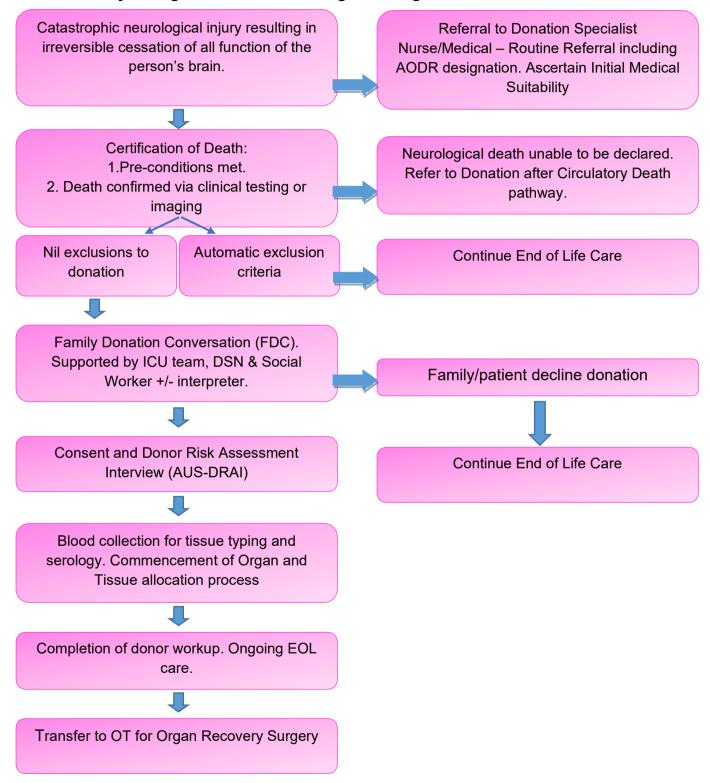




SESLHDPR/231

4. PROCEDURE

4.1 Pathway to Organ Donation following Neurological Determination of Death



Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 8 of 24





SESLHDPR/231

4.2 Identification of a potential organ donor

In critical care areas, Routine **Referral** or a routine **Notification** 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 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 at the time regarding the appropriateness of offering donation based on the specific patient profile. In circumstances where either the patient themselves or family members raise the possibility of donation directly with hospital staff, the same referral process to local DSN should apply.

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

St George & Sutherland Hospitals	Prince of Wales Hospital	NSW OTDS Service
SGH Switchboard:	POWH Switchboard:	Paging service:
(02) 9113 1111	(02) 9382 2222	02 9963 2801
TSH Switchboard:		
(02) 9540 7111		
Ask for transfer to on-call DSN	Ask for transfer to on-call DSN	Ask to page the DSC on call.

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 best managed in the ICU rather than the ED and should be provided by a trained specialist in collaboration with a Donation Specialist Nurse.

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 9 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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.

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 Death and Organ Donation.

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 hypoxicischaemic 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.

4.6 Preconditions to clinical examination

Physicians should adhere to the <u>ANZICS Statement on Death and Organ Donation</u> and ensure that all preconditions and observational periods are met prior to clinical testing.

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

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 should be a waiting period of 24 hours before determination of death using clinical examination alone. The four-hour observation period and the 24-hour waiting period can end simultaneously.

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 10 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

4.8 Process of Clinical Examination

Guidance for undertaking the clinical examination of determining neurological death can be found by referring to the ANZICS Statement on Death and Organ Donation.

Confirmation of death is documented on the NSW Health Neurological Determination of Death form (<u>Appendix 1</u>). 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 intensive care specialist 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)

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>

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 11 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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. Families 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.

5. CONSENT

Deceased organ donation is governed by the *NSW Human Tissue Act 1983*. The *NSW Human Tissue Act 1983* specifies the 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. Further information related to obtaining consent for the purposes of deceased organ and tissue donation can be found in the NSW Health Policy Directive PD2024 002 - Organ and Tissue Donation, Use and Retention.

5.1 Seeking consent

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

- The patient (where possible), via the AODR and/or Advanced Care Directive
- 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 under the care of the state

5.2 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.

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 12 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

<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.

5.3 SANOK and Delegate

Detailed, and informed consent from the SANOK is completed 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 the SANOK.

If a deceased person had documented their wish to be an organ donor and 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).

5.4 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 following SANOK consent. 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 is reportable to the Coroner. Where doubt exists as to whether a death should be reported, the treating intensive care specialist should contact the Duty FP to discuss.

Donation surgery cannot commence until authorisation from the Coroner and Designated Officer is obtained. For further information please see the following link: PD2010_054 - Coroners Cases and the Coroners Act 2009.

5.5 DO consent.

A Designated Officer is responsible for authorising the release of a body for anatomical examination, non-coronial post-mortem examination and the removal and use of organs and tissue from a deceased body for medical, scientific, or therapeutic purposes (including transplant). They must do so in accordance with the *Anatomy Act 1977 (NSW)* and the *Human Tissue Act 1983 (NSW)*. Designated Officers within SESLHD are appointed in accordance with section 5 of the *Human Tissue Act 1983 (NSW)*.

When issuing authorisations under the *Human Tissue Act 1983 (NSW)* or the *Anatomy Act 1977 (NSW)*, a Designated Officer:

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 13 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

- in coronial cases, cannot authorise the removal or use of tissue for any purpose unless the Coroner has given permission
- may make reasonable inquiries in order to be satisfied of the relevant criteria before authorising procedures (or not authorising)
- may rely on inquiries made by others
- must never sign an incomplete form and their authority must be in writing
- cannot act in any case where they have had a clinical or personal involvement
- must not disclose the deceased's identity to the public as per <u>PD2024_023</u> <u>Designated Officer</u>.

6. PREPARING FOR ORGAN PROCUREMENT SURGERY

The patient is transported to OT by anaesthetic personnel in conjunction with hospital and donation specialist staff (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 Checklist
- Authorisation to delegate responsibilities of NOK and all available patient notes.
 (Appendix 2)

6.1 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.

Refer to the following local business rules:

- POWH CLIN118 CBR Deceased Patient-Care of the
- SGH-TSH CLIN086 CBR DEATH-CARE OF THE BODY AFTER

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 14 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

6.2 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.

6.3 Care for staff:

Debriefing for all staff involved in donor care 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 <u>SESLHD Employee Assistance Program (EAP)</u>.

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

7. DONOR FAMILY FOLLOW-UP

Following organ and tissue donation the DSN ensures that the following steps are completed to support the wellbeing of donor families:

- Ascertain if the family would like to complete an 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 confirm their contact details
- Briefly outline the Family Support Program

8. DOCUMENTATION

Bedside Guide for Organ Donation – Appendix 4

9. AUDIT

Donation Specialist Nurse at each site conducts daily audit of hospital deaths to identify instances where donation could have been considered. Reported daily to Organ & Tissue Authority.

Monitoring organ and tissue donation best practice guidelines for offering organ and tissue donation in Australia. Results are tabled ICU M & M (monthly).

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 15 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

10. REFERENCES

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

- ANZICS The Statement on Death and Organ Donation. Edition 4.1 2021 https://www.anzics.org/wp-content/uploads/2022/04/ANZICS-Statement-on-Death-and-Organ-Donation.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-Care-and-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
- Human Tissue Act 1983 No. 164
 https://legislation.nsw.gov.au/view/html/inforce/current/act-1983-164
- NSW Legislation Human Tissue Regulation 2020
 Human Tissue Regulation 2020 NSW Legislation
- GL2021_004 End of Life Care and Decision-Making
 https://www1.health.nsw.gov.au/pds/Pages/doc.aspx?dn=GL2021_004
- PD2010_054 Coroners Cases and the Coroners Act 2009
 https://www1.health.nsw.gov.au/pds/Pages/doc.aspx?dn=PD2010_054
- PD2024_022 Organ and Tissue Donation, Use and Retention https://www1.health.nsw.gov.au/pds/Pages/doc.aspx?dn=PD2024_022
- PD2024_023 Designated Officer
 https://www1.health.nsw.gov.au/pds/Pages/doc.aspx?dn=PD2024 023

11. VERSION AND APPROVAL HISTORY

Date	Version No.	Author and approval notes
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
July 2016	4	Written by Eleni Zahou
		Document reviewed by Dr Tejo Kapalli and Dr
		Gordon Flynn (ICU Staff Specialist and
		Donation Specialist Medical)
		Document reviewed by Suzanne Schacht
		(Nurse Manager - Cardiac and Respiratory and
		Critical Care Clinical Streams)

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 16 of 24



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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
21 October 2024	5.1	Review and updates: Change in GIVE trigger to routine referral/notification. Updated clinical forms and policies.

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 17 of 24



SESLHDPR/231

12. APPENDICES

Appendix 1

	FAMILY NAME	¥	MRN	
NSW Health	GIVEN NAME		☐ MALE	☐ FEMALE
Facility:	D.O.B//	M.O.		
uoy.	ADDRESS			
NEUROLOGICAL DETERMINATION				
OF DEATH (ALSO CALLED BRAIN	LOCATION / WARD			
DEATH)	COMPLETE ALL DETAILS O	D AFFIX PA	TIENT I A	BEL HERE
Under NSW law, a person has died when there has occurred: irreversible osc				
or to an early saw, a person has used when there has a counter. In order from should be completed to demonstrate that the criteria as set out in the Ah issue from a deceased person for its use for transplantation unless each of 2 following has occurred (s26 Human Tissue Act 1983).	NZICS Statement* are met. A designated o	ficer shall not gi	ive an author	rity to remove
Known cause of irreversible loss of all brain function There is acute brain pathology consistent with the irreversible loss of brain				
Medical Practitioner A: Specify condition	Truncauri.			
Medical Practitioner B: Specify condition				
Observation period prior to neurological determination of death there must be at least a 4 hour observation period and mechanical verifision to 63, with pugins non-readitive light, absent coughtracheal refax and no spo- determination of death using clinical examination should be delayed for at least hypothermia.	ntaneous breathing efforts. In cases of hypo	xia-ischaemic er	ncephalopath	y, neurological
This 4 hour period of observation began at (date and time)	umination t	Medi	ical I	Medical
Neurological determination of death by clinical exa Preconditions	mination	Practitio	oner A	Practitioner
		Pleas		Please √
 Hypothermia is not present – temperature is > 35°C Spec 	cify Temperature:		_°c	
Blood pressure is adequate (e.g. MAP>60 in an adult)		-	1 1	H
 Sedative drug effects are excluded 		-	1	님
 There is no severe electrolyte, metabolic or endocrine dist 	turbances	-	-	님
5. Neuromuscular function is intact - absence of neuromusc	ular-blocking drugs			\vdash
6. Must be possible to examine all brain-stem reflexes (with a	at least one ear and one eye)			님
7. Must be possible to assess the motor response in facial ner	rve to painful stimulus in upper limbs		, ,	
and assess response in the upper limbs to painful stimulus	in the trigeminal sensory region]	
 Ability to perform apnoes testing 		-	,	
Clinical Testing		-	,	
There is no motor response in the cranial nerve distributio trunk and four limbs and there is no response in the trunk the cranial nerve distribution]	
2. No pupillary responses to light]	
3. No corneal reflexes				
4. There are no vestibulo-occular reflexes on ice-cold caloric	testing		i	
5. No gag (pharyngeal) reflex			i I	
No cough (tracheal) reflex			i	
If all the above reflexes are absent, proceed with testing for apr	2008		i	\Box
		-	·	
 Breathing is absent (despite arterial PaCO₂ > 60mmHg (8) Security Bacoo is separate as the desired and act and act at an experience. 		PaCO,		PaCO,
 Specify PaCO₂ in mmHg or kPa (circle one) and pH at end 	or apricea	pH		pH
Neurological determination of death when the above Clini 1. Prior to the brain perfusion study, the patient had a GCS a reflex and no breathing effort 2. There is no cerebral perfusion 3. (Delete one as appropriate) This has been demonstrated for other suitably reliable method (Specify).	core of 3, absent cough/tracheal	Practition Pleas	oner A	Medical Practitioner Please ✓
We have determined, according to the above proced brain has occurred	ures, that irreversible cessati	on of all fu	nction of	the person
Medical Practitioner A (Name):	Medical Practitioner B (lame):		
Designation:	Designation:			
Signature:	Signature:			
			, ,	
Date and time of assessment:/ :	Date and time of assess	ment:		
Date and time of death (end of the assessment by sec *Based on criteria developed by the Australian New Zealand Intensive C				



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

Appendix 2

	318 E	FAMILY NAME		MRN
	NSW Health	GIVEN NAME		☐ MALE ☐ FEMALE
	Facility:	D.O.B//	M.O.	
_		ADDRESS		
	AUTHORISATION TO DELEGATE RESPONSIBILITIES OF SENIOR	LOCATION / WARD		
	AVAILABLE NEXT OF KIN	COMPLETE ALL DETAILS	OR AFFIX P	ATIENT LABEL HERE
SMR020031	s5A of the <i>Human Tissue Act 1983</i> provides that a seperson to exercise his or her functions under the AdName of deceased: MRN:Date of birth:	t as a senior available next of i	in of the d	
	Date of death:/Location:			
	Statement of senior available next of kin:			
	Family name::	First name:		Age:
\bigcirc	Of (Address):			
. (1)	Relationship to deceased:			
WRITING	I hereby authorise;			
NON-	Family name::	First name:		Age:
MARGIN	Of (Address):			
BINDING MARGIN - NO WRITING	To exercise my functions as senior available next of kin retention and use of tissue for organ and tissue donation for medical, scientific or therapeutic purposes.			
	Print name of senior available next of kin:			
	Signature (senior available next of kin):	Date:	/	/
	I hereby acknowledge and accept the responsibilities the <i>Human Tissue Act 1983</i> .	es of senior available next of ki	n as delega	ated to me under s5A of
	Print name of authorised person (Delegate):			
	Signature: Dat	e:/		
	Name of officer obtaining delegation (print):			
	Signature:	Designation:		
00822				
NH505616 100622				
S E		WRITING		Page 1 of 1





SESLHDPR/231

Appendix 3

	1886				FAM	ILY NAME		MRN			
	NSW	NSW Health			GIVE	EN NAME		MALE C	FEM	ALE	
	GOVERNMENT				D.O.	B//	M.O.				
	Facility:				ADD	RESS					
	CO	NSENT AND AUTHO	DRITY		+						
	FOR	REMOVAL OF ORG	SAN(S	6)		ATION / WARD					
		TISSUE AFTER DE			100			EN BATIEL			
	SENIO	R AVAILABLE NEXT			Part 4	COMPLETE ALL DETAILS (Removal of Tissue After			LAE	SEL HE	KE
S 23	This form Si	MR020.235 is to be complete	ed for ren	noval	of orga		th for t	the purpose		ranspla	antation
MR020235	Name of Pati		15011 GIR	201 10	Other	incrapedite of medical of s	acriun	c purpose(,,.		
SMS	Senior Avail	lable Next of Kin (SANoK) o ities of Senior Available Ne			or thei	ir delegate (use form SMR	020.0	31 Authori	satio	on to D	elegate
	Name							D.O.B.		,	/
	(Print n	ame)									
	Of(Print a	diner									
		e best of my knowledge: (ti	ick all ap	plicabl	le)						
	☐ The Patie	ent has expressed a wish to o	donate o	rgan(s) and/c						
		ent has not expressed an obj I Senior Available Next of Kin						e of donation	n.		
		d that for donation to occu		aueni	nas ex	pressed an objection to dor	iate.				
		support and interventions will		e until	the ren	moval of organ(s) and tissue	e, and	that proced	lures	to pre	serve
S		ction may be undertaken as									cases
WRITIN		SMR020.236 Consent and A mples are collected as require									
Š		236 Consent and Authority to	Ante-M	ortem	Proced			nation).			
C .											
9		cords are accessed to enable ially as governed by the relev					alth in	formation is	sec	ured	
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Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 20 of 24





SESLHDPR/231

allie.	FAMILY NAME	MRN	
NSW Health	GIVEN NAME	MALE FEMALE	1
GOVERNMENT	D.O.B//	M.O.	1
Facility:	ADDRESS		1
CONSENT AND AUTHORITY			1
FOR REMOVAL OF ORGAN(S)	LOCATION / WARD		1
AND TISSUE AFTER DEATH – SENIOR AVAILABLE NEXT OF KIN		OR AFFIX PATIENT LABEL HERE	1
Coronial Consent:			1
☐ Not required (as per SMR010.513 Coronial Checklist)			
☐ The death has been reported to the NSW State Corone	er (via draft Coronial Pro Forma -	organ donation cases only)	
The Duty Coroner		has provided consent for the	
removal and use of organ(s) and tissue subject to the f	following condition(s) (if any):		
No conditions specified			
Conditions:			
Consent obtained by: (Print name)	Designation:		
Authorisation by Designated Officer:			1
I,			
(Print name)			
as a Designated Officer for			
hereby state, at the time of assessing this consent and	d authority request: (tick all app	licable)	B Hole
I have had no direct clinical or personal involvement	_		DE SP
 I am satisfied the particulars of the Patient are corre accompanying this request. 	ect as recorded on this consent ar	nd authority, and on all records	G
☐ I am satisfied the purposes and consequences of re			AR a
and understood by the person providing consent, ar financial gain.	nd this decision was made freely,	without coercion or expectation of	Holes Punched as per BINDING MARGIN -
☐ There is no other Senior Available Next of Kin of the	same or higher standing who ob	jects.	z A
☐ The Patient has not expressed an objection nor revo	oked a previously documented co	onsent for the removal of organ(s)	toles Punched as per AS2828.1: 2019 BINDING MARGIN - NO WRITING
or tissue following their death. A Senior Available Next of Kin has not been identifie	ed. despite reasonable inquiries. I	am satisfied the Patient has	목 ::
provided written intent or consent on their own beha	alf.		201s
☐ Coronial consent is granted contingent on the condition and, having reviewed the consent and authority reque		so anneitied armental andler	"
tissue from the body of the Patient after death in according			
Simulation	Date: /	,	0
Signature:	Date:/	_/	
Designation:]
Secondary Designated Officer Authorisation: (Where the Patient has been transferred to a facility outside the jurisd	fiction of the Designated Officer named	above)	
Having reviewed the consent and authority request, I	authorise the removal of the sp	ecified organ(s) and/or tissue	
from the body of the Patient after death in accordance	with the terms and conditions	of this consent.	
Name: (Print name)	Designation:		§
Signature:	Date:/	1	
	Date.		R020235
Donation Facility:			ľ
a person who was a spouse or de-facto (including same sex page 1).		•	
where the deceased person has no spouse, or the spouse is the age of 18 years	not available, a son or daughter of the	e deceased person, who has attained	155
3. where no person referred to in 1 or 2 is available, a parent of			
where no person referred to in 1, 2, or 3 is available, a brothe		ho has attained the age of 18 years	
Senior Available Next of Kin of a deceased child means, in the 1. a parent of the child	ne tollowing order of seniority:		
2. where a parent of the child is not available, a brother or a sist			
where no person referred to in 1 or 2 is available, a person wf	no is guardian or the child immediatel	y belore the child's death	1

Page 2 of 2 NO WRITING



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

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

Version: 5.1 Ref: T12/12035 Date: 21 October 2024 Page 22 of 24

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Due

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NSW Organ & Tissue

Bedside Guide For Organ Donation

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

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

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	

Repeat echo time

T3 Start time:

commencement repeat echo 4

hours post

rime courier

Time bloods

Box 1 & Box 2

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

Group and hold ordered/printed

Neight Kg Height cm

Girth cm

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

taken:

bloods

departs:

П			1
		1	
		1	
		1	
	100		
		1	

Memory items for family Cremation certificate Coronial checklist

equests		

er requests		luests	

Other requests		

Routine MRSA/VRE swabs if not done

Coronary Angiogram

Chest CT

Bronchoscopy

Cultures-Urine/Sputum/Blood

ECHO and report ECG and Report

CXR and report

Urinalysis

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Donation Specialist Contact:

Version: 5.1 Date: 21 October 2024 Page 23 of 24 Ref: T12/12035 **COMPLIANCE WITH THIS DOCUMENT IS MANDATORY**



Organ and Tissue Donation following Neurological Determination of Death

SESLHDPR/231

Appendix 5

