

# The Use of Human Biospecimens In Research

## Procedure

### TARGET AUDIENCE and SETTING

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Principal Investigator and all staff conducting research at, or under the auspices of, Monash Health or which involves Monash Health staff, resources, patients, their tissue samples, test results or medical records.

Monash Health will conduct all research in accordance with legislative requirements and national guidelines.

### PURPOSE

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Research involving human biospecimens must observe the fundamental ethical principle of respect for the tissue donor, including the provision of full information, consent, professional removal of samples and secure storage of the tissue to maintain confidentiality and privacy.

### DEFINITIONS

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**Human biospecimens:** refers to any biological material obtained from a person including tissue, blood, urine and sputum; it also includes any derivative of these, such as cell lines.

**Child:** means a person who has not attained the age of 16 years<sup>1</sup>.

**HREC:** means a Human Research Ethics Committee established in accordance with the National Statement on Ethical Conduct in Human Research 2007 - updated 2023

**National Statement:** means the National Statement on Ethical Conduct in Human Research (NHMRC 2023) .

**NHMRC:** means the National Health and Medical Research Council.

**Tissue:** includes tumour biopsies (fresh or paraffin-embedded blocks), samples of normal tissues, blood and serum samples, urine and other body fluids, and tissue derivatives including DNA, RNA, and proteins obtained from human beings.

**Unconsented tissue:** is tissue for which consent to its use in research was not obtained at the time of collection.

### BACKGROUND

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Use of human biospecimens in research must be in accordance with the National Statement (NHMRC 2023) and the Victorian Human Tissue Act (1982). Specifically, research involving human biospecimens must observe the fundamental ethical principle of respect for the tissue donor, including the provision of full information, consent, professional removal of samples and secure storage of the tissue to maintain confidentiality and privacy. The cultural or religious sensitivities of the donor must be considered when soliciting or accepting human biospecimens.

The use of human biospecimens in research at Monash Health must be carried out in accordance this procedure.

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Donor consent for the use of tissue is generally required, but the requirement may be waived by the HREC in appropriate circumstances.

### PRECAUTIONS/CONTRAINDICATIONS

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This procedure is based on the principles described more fully in the following documents:

- Human Tissue Act 1982 (Vic)
- National Statement on Ethical Conduct in Human Research (NHMRC 2023)
- National Code of Ethical Autopsy Practice

### PROCEDURE

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It is a requirement of the NHMRC that all medical or scientific research done on humans or animals must be approved by a properly constituted HREC or an Animal Ethics Committee (AEC). Applicants seeking HREC approval for the collection and/or use of human biospecimens in research must address the following considerations within the ethics application.

Key ethical considerations when conducting research using human biospecimens:

1. **Recruitment/Collection method** (as per sections 3.2.4 – 3.2.10 of *National Statement (2023)*);
2. **Obtaining Informed Consent** (as per sections 3.2.11 - 3.2.14 of *the National Statement (2023)*);
3. **Communication plan** of research findings or results to donors/participants (as per section 3.2.15 of *National Statement (2023)*).

#### Provision of information to research participants

Where proposed research involving the use of human biospecimens may reveal information that may be important for the health of the donor(s), their blood relatives or their community, whether anticipated or incidental to the scope of the research, researchers should prepare an ethically defensible plan to describe the management of any proposed disclosure or non-disclosure of that information. This plan must be approved by a HREC and should include consideration of the following:

- a) the circumstances in which the human biospecimens were obtained, including the type of consent provided (see paragraph 2.2.14 of the National Statement) and the manner in which the consent was obtained;
- b) the likelihood of the research generating information that may be important for the health of the donor(s), their blood relatives or their community;
- c) whether a recognised intervention exists that can benefit or reduce the risk of harm to the donor(s), their blood relatives or their community from any health impact revealed by this information;
- d) the resource requirements and infrastructure in place to support the return of information of the kind referred to in (b) and (c) in an ethically appropriate manner;
- e) whether participants will be given a choice to receive such information;

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- f) whether there is a pathway to identify and recontact the donor(s), their blood relatives or their community, taking into account the relationship between the researchers and the donor(s), if any;
- g) the potential for sampling or coding errors that may compromise the certainty that the human biospecimens came from a particular donor;
- h) whether the findings of specific tests being undertaken as part of the research have been produced or validated in an accredited laboratory; and
- i) who will take responsibility for any subsequent care requirements.

### Guidance for Research Involving Biospecimens

A Human Research Ethics Application and an application for Site Specific Authorisation is required, prior to commencement of the research. The below guidelines specify, along with the HREC Application Form, what supporting documents must be provided. Please note that following HREC approval, Site Specific Authorisation must be obtained.

- 1. Prospective collection of human biospecimens for research with informed consent**
  - a) Protocol, that specifies collection method, processing method, storage and distribution or disposal protocol;
  - b) Participant Information and Consent Form.
- 2. Use of stored human biospecimens for research where informed consent has been obtained in another study or biobank:**
  - a) Protocol, detailing the use of the tissue in the specific research study;
  - b) Supporting documentation showing the HREC Approval letter/Certificate which provides approval for the collection, storage and use of the tissue in future research;
  - c) A copy of the HREC approved Participant Information and Consent Form that demonstrates that participants have provided informed consent for the future use of tissue in research of this nature or unspecified research;
  - d) The application should include whether the research may give rise to information that may be important for the health of the donors, their blood relatives or their community where the identity of the donors will be known to, or can reasonably be ascertained by, those conducting the research or with access to health or research data related to donors.
- 3. Use of stored human biospecimens for research where informed consent has not been obtained**
  - a) Protocol, detailing the use of the tissue in the specific research study;

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- b) An application for a waiver of consent addressing the National Statement on Ethical Conduct in Human Research Waiver of Consent Criteria.

### 4. Human biospecimens obtained after death for research

- a) Protocol, detailing the use of the tissue in the specific research study;
- b) obtain permission from the next of kin or an application for a waiver of consent addressing the National Statement on Ethical Conduct in Human Research Waiver of Consent Criteria.

### 5. Application for the removal and use of tissue from a child

- a) Protocol, detailing the use of the tissue in the specific research study;
- b) Written informed consent from the parent/guardian must be recorded by the principal Investigator or delegate;
- c) It must be ensured that both, the parent and the child are capable of understanding and consenting to providing the providing the biospecimens for use in research;
- d) Under the Victorian Tissue Act it is an offence for a person under 16 years to undergo a procedure for providing regenerative tissue for research purposes. In the event a young person is undergoing a procedure for clinical purposes and there is tissue remaining this is permissible;
- e) The application should include whether the research may give rise to information that may be important for the health of the donors, their blood relatives or their community where the identity of the donors will be known to, or can reasonably be ascertained by, those conducting the research or with access to health or research data related to donors.

### **Governance**

A [Site Specific Authorisation \(SSA\)](#) application must be submitted by the principal Investigator or delegate, and SSA authorisation must be provided by the Research Support Services team prior to any research commencing at Monash Health.

The SSA application should include a copy of the HREC approval for the use of the human tissue or biospecimens required for the research, along with a copy of all other HREC approved documents.

### **Material Transfer Agreement**

Transfer of tissue between Monash Health tissue bank and an external tissue repository is subject to a Materials Transfer Agreement (MTA) that complies with Monash Health specifications.

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### REFERENCES

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1. [Human biospecimen Act 1982 \(Vic\)](#)
2. [National Code of Ethical Autopsy Practice](#)
3. [National Statement on Ethical Conduct in Human Research](#) (NHMRC, 2007 – updated 2023)

### Document Governance

<b>Supporting Policy</b>		<a href="#">Research and Ethics Operational</a> Human Research Policy
<b>Executive Sponsor</b>		A/Prof Anjali Dhulia, Executive Director of Medical Services and Chief Medical Officer
<b>Program</b>		Research Governance
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