

1 **Proposed Guidance Regarding Broad Consent for the Storage And Use of Data and**  
2 **Human Biological Materials**

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11 **Purpose**

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13 The purpose of the following guidance is to introduce broad consent and describe how it can  
14 comply with the principles of the TCPS.

15 **Introduction**

16 Broad consent is a term used around the world to mean consent for unspecified research. It is  
17 widely used in the context of data repositories and biobanks. At one time, international ethics  
18 norms recommended seeking consent from participants only for a specific, clearly defined  
19 research project, referred to in this guidance as ‘specific consent.’ Now, however, there is  
20 general approval for seeking broad consent for the use of stored data and human biological  
21 materials for less or un- specified research that may be conducted in different and unspecified  
22 contexts, now or in the future.

23  
24 Although this may seem to be a departure from the principles of specific consent, in fact the  
25 principles underlying broad consent are the same. “An important mechanism for respecting  
26 participants’ autonomy in research is the requirement to seek their free, informed and ongoing  
27 consent. This requirement reflects the commitment that participation in research, including  
28 participation through the use of one’s data or biological materials, should be a matter of choice  
29 and that, to be meaningful, the choice must be informed” ([Article 1.1](#)). This is as true for broad  
30 consent as it is for specific consent. The difference is the nature and scope of what is being  
31 discussed by the researcher and participant during the consent process.

32 The informed aspect of broad consent focuses on the discussion with participants of the risks and  
33 potential benefits associated with unspecified research that is in a much broader context than  
34 specific consent. Broad consent recognizes that the details (e.g., research objectives, methods) of  
35 future research projects may be of less interest to participants who are volunteering their  
36 contributions over the long term, than other aspects of the research, such as who will have access  
37 to their contributions and in what jurisdictions. This means information about the nature and  
38 governance of the repository may take on a greater significance for some participants.

39 The following discussion explores how to apply the TCPS guidance that consent be voluntary  
40 ([Article 3.1](#)), informed ([Article 3.2](#)) and ongoing ([Article 3.3](#)) in the context of seeking consent  
41 for the storage of data or human biological materials for unspecified research.

## 42 **The shared responsibility to protect participants**

43 Researchers, data custodians, and biobanks have a shared responsibility to protect participants. In  
44 specific research, the researcher has a responsibility to ensure that the terms of participant  
45 consent are respected (Respect for Persons) and that participant welfare is protected (Concern for  
46 Welfare) throughout the life of the research project. Where data or human biological materials  
47 are being stored for use in research, the repository assumes those responsibilities. When the  
48 stored data and human biological materials are used for new research, the researcher associated  
49 with the new project takes on the same responsibilities, i.e., that the terms of participant consent  
50 continue to be respected and that participant welfare continues to be protected throughout the  
51 new research life cycle.

52 In general, the TCPS requires research involving stored data or human biological materials to  
53 undergo REB review (Articles [5.5A](#), [5.5B](#), [12.3A](#), [12.3B](#)). However, such research may not  
54 receive REB review if conducted in jurisdictions that are not subject to the TCPS, i.e., research  
55 in other countries or research conducted under the auspices of institutions that are not eligible to  
56 manage Agency funds. Researchers who intend to make their collections of data or human  
57 biological materials available to other researchers not subject to the TCPS must consider the  
58 repercussions of this decision for participants. The consent process must reflect the intention of  
59 the researcher collecting the data or human biological materials. For example, if a researcher  
60 assures participants that all subsequent research will undergo REB review, then that researcher  
61 must make sure procedures are in place to realise that assurance (e.g., through governance  
62 policies, or contractually). Alternatively, if the researcher is unable to make such an assurance,  
63 they must make that clear to participants during the consent process.

64 Where the data or human biological materials are from a specific or unique community or group,  
65 researchers and repositories may be required to further consult with or seek permissions from  
66 such groups, or respect existing agreements. See [Articles 9.1 and 9.11](#) on research involving  
67 First Nations, Inuit and Métis Peoples of Canada. This guidance can be applied to other  
68 communities when appropriate ([Article 2.11](#)).

## 69 **Voluntary broad consent**

### 70 *Withdrawal*

71 In general, participants must be able to withdraw from research at will and without reprisal  
72 ([Article 3.1](#)). In practical terms, this means they must be able to request withdrawal of their  
73 stored data or human biological materials from the repository. The withdrawal of their data or  
74 human biological materials may not be possible after a certain point in time. For example, their  
75 data may have been anonymized prior to storage and cannot be separated from the pool of  
76 participant data. Or, their contributions may have been widely disseminated. Researchers must  
77 justify any limitations to the withdrawal of data or human biological materials to their REB.  
78 These limitations must be explained to participants during the consent process.

### 79 *Free of coercion and undue influence*

80 Consent must be free of coercion and undue influence ([Article 3.1](#)). Sometimes researchers  
81 collect data or human biological materials for a specific research project, and with the  
82 intention of subsequently storing those data or materials (or excess materials not used for the  
83 specific purpose) in a repository for subsequent unspecified research. In this situation, both

84 specific and broad consent must be sought. Participating in a specific and known research  
85 project must not be contingent on the participant consenting to unspecified research.  
86

### 87 **Informed broad consent**

88  
89 The notion of broad consent raises the question of what information is meaningful to participants  
90 in deciding whether they wish to have their contributions stored for unspecified research. Like  
91 specific consent, the broad consent process must focus on what is relevant to participants'  
92 decision-making. In general, this would include informing them of potential benefits of the  
93 research, risks to participants, how their interests will be protected and any limitations to those  
94 protections. They should also be informed about potential uses, and any limitations to the range  
95 of uses, if known at the time of seeking broad consent.

96 However, sometimes not all of this information is known at the time of seeking consent. An  
97 important part of the consent process, therefore, is informing participants of areas of uncertainty  
98 that may be relevant to their decision to participate. For example, when little is known about the  
99 nature of the future research, there is a risk that the participant's contributions could be used for a  
100 purpose that the participant might not agree with or support. However, participants who care  
101 only that their contributions are to be used for research in the broadest sense, may wish to  
102 consent despite this risk. In determining what might be relevant to participants' decisions to  
103 participate, researchers must be mindful of the perspective of the participant and their  
104 willingness to accept uncertainty. This may involve considering the various contexts (e.g., social,  
105 economic, cultural) that shape the participant's life ([Chapter 1, Section C](#)).

106 The repository is an important part of the shared responsibility to protect participants. However,  
107 it must be acknowledged that not all participants are interested in the details of a repository's  
108 governance and their inclusion in the consent form may distract from information that is more  
109 relevant to the participant at the time of initial consent. The researcher should consider what  
110 information is meaningful to the participant's decision to participate at the time of consent, and  
111 what information might be more appropriate as an addendum, which may be of more interest to  
112 them later. Researchers should provide a means for participants to obtain ongoing repository  
113 information as the repository's governance may change. This could be accomplished by  
114 providing participants with a repository contact and information about how to find repository  
115 information, should they wish it, in the future, e.g., a website.

116 The elements of informed broad consent listed below are the same elements associated with  
117 specific consent listed in [Article 3.2](#), only they are broader in scope.

118 For broad consent to be informed, it must include information about:

- 119 • What is being collected and stored for reuse, and why;
- 120 • Voluntariness and the ongoing nature of the participant's consent, including options for  
121 withdrawal (if any);
- 122 • Risks and potential benefits of storage of data and human biological materials and of their  
123 use in unspecified research, including areas of uncertainty where risks cannot be  
124 estimated;
- 125 • Information about the repository and its governance (if known).

126 The following is a more detailed description of these requirements that can be used to make sure  
127 that key issues associated with broad consent are considered.

128 ***What is being collected and stored for unspecified research and why***

- 129 • Description of what data and human biological materials will be stored for research, for  
130 what purpose, if known, and whether they can be identified as being from a specific or  
131 unique community or group.
- 132 • Description of potential uses. Consideration should be given to whether the research  
133 could involve technologies that would compromise participant privacy/confidentiality,  
134 such as whole genome sequencing or other emerging technologies, as these may increase  
135 participant risk.
- 136 • Description of any potentially identifying information that will be stored.
- 137 • Length of time the data and human biological materials will be stored, location of  
138 storage, process for disposal, how any human biological materials will be preserved, and  
139 whether the human biological materials will be converted to information, e.g., DNA  
140 sequencing.

141 ***Voluntariness and the ongoing nature of consent***

- 142 • Assurance that prospective participants are under no obligation to agree to the storage of  
143 their data or human biological materials for research.
- 144 • Assurance that not agreeing to storage will not jeopardize participants' chances to receive  
145 any current or future services.
- 146 • Explanation of how participants may withdraw their consent for research, including any  
147 limitations to the withdrawal of their data and human biological materials from storage.
- 148 • Explanation of what and how to obtain information that will be provided as part of  
149 ongoing consent (e.g., details of research) or that participants will not have access to this  
150 information.
- 151 • Description of how the terms of consent will be respected in research (e.g., contractually,  
152 through governance mechanisms).
- 153 • Assurance that participants have not waived any rights to legal recourse in the event of  
154 harms associated with the storage and research use of their data or human biological  
155 materials.

156 ***Risks and potential benefits of storage and participation in unspecified research, including***  
157 ***areas of uncertainty where risks cannot be estimated;***

- 158 • Description of the reasonably foreseeable risks that may arise from the storage and  
159 research use of the data and human biological materials, for example:
  - 160 ○ Risks of re-identification;
  - 161 ○ Possibility that participant data or human biological materials will be used for  
162 research of which the participant is unaware and to which the participant might  
163 object.
- 164 • Description of the potential benefits of the research, to the degree possible.
- 165 • Discussion of areas of uncertainty, where the risks are unknown, that may be relevant to  
166 participants' decision to participate.

167 ***Information about the repository and its governance***

- 168 • Purpose of the repository.

- 169 • Information about the type of research supported by the repository.
- 170 • Identification of sponsors or funders associated with the repository and any conflicts of
- 171 interest between the sponsor and the repository.
- 172 • Description of how privacy and confidentiality will be protected during storage and
- 173 research, and any limitations to that protection.
- 174 • Description of whether results will be disseminated and if so, how.
- 175 • Description of how or if material incidental findings will be handled.
- 176 • Description of how stored data and/or human biological materials will be shared with
- 177 other researchers and under what conditions.
- 178 • Information about whether the data or human biological materials will be shared with
- 179 researchers in other jurisdictions who are not subject to the TCPS. A description of how
- 180 or whether participant autonomy will be respected and how or whether participant
- 181 privacy will be protected in the new jurisdiction, e.g., by contractual arrangement.
- 182 • Information concerning whether the repository financially benefits from the
- 183 commercialization of findings, the data or human biological materials or products derived
- 184 from them and whether participants will financially benefit.
- 185 • Any requirements the repository may have to provide data or human biological materials
- 186 to third parties for non-research purposes (e.g., as required by law) and its process for
- 187 informing participants when this is required.
- 188 • Information about what would happen to the data or human biological materials if the
- 189 repository were to be closed, if known.
- 190 • Who to contact at the repository for information.

### 191 **Ongoing broad consent**

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193 As the elements of informed consent may change over time, repositories and researchers have a

194 duty to provide participants who wish it, with information relevant to their consent throughout

195 the storage and use of their data or human biological materials for research ([Article 3.3](#)).

196 Participants should have the option of indicating (and periodically confirming or withdrawing)

197 their consent to being re-contacted over the years and their consent for the continued use of their

198 materials for research. Researchers must respect the wishes of participants who do not want to be

199 re-contacted. For practical reasons, the onus may be on the participant to provide the repository

200 with any updates to their contact information, and to confirm their ongoing consent. In some

201 cases, repositories may not be able to keep in contact with participants, making ongoing consent

202 impracticable. In this case, consent is, in effect, limited to a one-time event that takes place when

203 the data or human biological materials are collected.

204 Change in participant capacity is an important element of ongoing consent. For example,

205 longitudinal studies may involve children who have assented to research and whose decision-

206 making capacity is maturing to a point where they can consent for themselves whether to

207 continue to participate in research, without an authorized third party ([Article 3.9](#)). Mechanisms

208 should be in place to accommodate such changes.

209 Any deviations from, or limitations to, the notion of ongoing consent must be justified to an REB

210 and must be explained to participants as part of the consent process.

211 **Summary**

212  
213 Broad consent is used when data or human biological materials are collected for storage for  
214 unspecified research. In this situation, the responsibility to protect participants is shared between  
215 the researcher who is collecting the data or human biological materials, the repository, and future  
216 researchers. The principles underlying broad consent and specific consent are the same. In both  
217 cases, consent should be free, informed and ongoing. The difference is the nature and scope of  
218 what is being discussed by the researcher and participant during the consent process.

219  
220 **Glossary**

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222 Consistent with the TCPS:

- 223 • Biobank means a collection of human biological materials. A biobank may also include  
224 “associated information about individuals from whom biological materials were  
225 collected” (Glossary). The term biobank as defined in the TCPS applies regardless of the  
226 size or location of the collection. It includes small collections held by an individual as  
227 well as large collections held by commercial institutions. It includes collections intended  
228 for research as well as collections not intended for research.
- 229 • Consent means free, informed and ongoing consent ([Articles 3.1-3.3](#)).
- 230 • Human biological materials are tissues, organs, blood, plasma, skin, serum, DNA, RNA,  
231 proteins, cells, hair, nail clippings, urine, saliva, and other body fluids. The term also  
232 includes materials related to human reproduction, including embryos, fetuses, fetal  
233 tissues and human reproductive materials ([Article 2.1.b](#)).

234 For the purposes of this guidance:

- 235 • Broad consent means consent for unspecified research;
- 236 • Specific consent means consent for a specific research project, the details of which are  
237 known at the time of consent;
- 238 • A repository is a data repository or biobank;
- 239 • A data repository is a collection of research data.

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