

1 **CHAPTER 4: ETHICAL ISSUES IN HUMAN STEM CELL RESEARCH**

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3
4 **Benefits and Constraints**

5
6 The principal moral justification for promoting research with human pluripotent stem cells is that
7 such research has the potential to provide direct health benefits to individuals suffering from
8 disease. A ban on federal funding of human stem cell research would slow the progress of this
9 important research. As John Fletcher argues, "the ban conflicts with several of the goals of
10 medicine, especially healing, prevention and research. Beneficence impels the pursuit of each of
11 these goals and undergirds moral obligations to prevent or ameliorate human suffering caused by
12 disease."¹ In a letter to President Clinton and the Congress, thirty three Nobel laureates echo this
13 view and assert that "[t]hose who seek to prevent medical advances using stem cells must be held
14 accountable to those who suffer from horrible disease and their families, why such hope should
15 be withheld."²

16
17 While the invocation of the potential benefits of stem cell research furnishes strong moral
18 grounds for supporting the research, considerations of social utility are not always sufficient to
19 morally justify actions. There are moral constraints on the promotion of the social good. For
20 example, considerations of justice and respect for persons often trump considerations of social
21 utility. Those who oppose research involving the use of stem cells derived from aborted fetuses
22 and embryos argue that the research is morally impermissible because it is implicated in the
23 killing of human beings who have the moral status of persons. Opponents of the research
24 maintain that the constraints against killing persons to advance the common good apply equally

¹ John Fletcher, "Deliberating Incrementally on Human Pluripotential Stem Cell Research," p. 17 (NBAC commissioned paper).

² March 4, 1999 letter, p.2

1 to fetuses and embryos. This chapter considers these and other objections to research uses of
2 stem cells derived from (1) fetal tissue, (2) spare IVF embryos, and (3) embryos created expressly
3 for research purposes.

4

5 **Research with Stem Cells Derived from Fetal Tissue**

6

7 The derivation of stem cells from the tissue of aborted fetuses raises the issue of the
8 relevance of the morality of elective abortion to stem cell research. It is evident that some views
9 about the morality of abortion are relevant. For those who believe that abortion is permissible
10 because the fetus has no moral standing, there are no significant moral barriers to research using
11 stem cells derived from fetal tissue. Restrictions that separate decisions to donate fetal tissue
12 from decisions to abort might be necessary, but their purpose is to protect the mother against
13 coercion and exploitation rather than to protect the fetus.

14

15 What is less clear is whether one can both morally oppose abortion and support this
16 method of deriving stem cells. A common view in the literature on the ethics of human fetal
17 tissue transplantation research is that we can support the research without assuming that abortion
18 is morally permissible. As long as guidelines are in place which ensure that abortion decisions
19 and procedures are separated from considerations of fetal tissue procurement and use in research,
20 using aborted fetuses for research is no more problematic than using other cadavers donated for
21 scientific and medical purposes.

22

23 Opponents of the research use of fetal materials obtained from induced abortions dispute
24 the claim that we can dismiss the relevance of the morality of abortion. They appeal to two
25 grounds in asserting the relevance of the moral question: (1) Those who procure and use fetal
26 material from induced abortions are complicit with the abortions which provide the material; (2)
27 It is impossible to obtain valid informed consent for the use of fetal materials. Each of these

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1 claims merits consideration.

1 *Complicity*

2 There are two general ways in which one can maintain that those involved in the research
3 use of stem cells derived from aborted fetuses are complicit with abortion: (1) They bear some
4 causal responsibility for abortions; (2) They symbolically align themselves with abortion.

5
6 *1. Causal Responsibility*

7 A researcher or tissue procurer may bear direct or indirect causal responsibility for
8 abortions. The former kind of responsibility exists where one directly influences a woman to
9 have an abortion (e.g., by offering financial incentives) or is directly involved in the performance
10 of an abortion from which fetal tissue is procured. There are several measures which can help
11 prevent direct responsibility for abortions:

- 12
- 13 • The consent of women for abortions must be obtained prior to requesting or obtaining
 - 14 consent for the donation of fetal tissue.
 - 15 • Those who seek a woman's consent to donate must not discuss fetal tissue donation prior to
 - 16 her decision to donate.
 - 17 • A prohibition against payment to women for fetal tissue.
 - 18 • A separation between tissue procurement personnel and abortion clinic personnel must be
 - 19 maintained.
 - 20 • A prohibition against any alteration of the timing of or procedures used in an abortion solely
 - 21 for the purpose of obtaining tissue.

22

23 Those involved in research uses of stem cells derived from fetal tissue would be indirectly
24 responsible for abortions if the perceived benefits (or promise of benefits) of the research
25 contributed to an increase in the number of abortions. Opponents of fetal tissue research argue
26 that it is not realistic to suppose that we can always keep a woman's decision to abort separate
27 from considerations of donating fetal tissue, as many women facing the abortion decision are

1 likely to have already gained knowledge about fetal tissue research through widespread media
2 attention to the issue. The knowledge that having an abortion might promote the common good
3 will, opponents argue, tip the balance in favor of going through with an abortion for some of the
4 many women who are ambivalent about it. More generally, some also argue that the benefits
5 achieved through the routine use of fetal tissue will further legitimate abortion and result in more
6 socially permissive attitudes and policies concerning abortion.

7
8 Although there has been one empirical study examining whether the potential for fetal
9 tissue transplantation is likely to influence abortion decisions, the issue remains largely
10 speculative. The study involved a survey which asked, "If you became pregnant and knew that
11 tissue from the fetus could be used to help someone suffering from Parkinson's disease, would
12 you be more likely to have an abortion?"³ 12 percent (32) of the women responded in the
13 affirmative. The authors conclude that the option to donate tissue may influence some women's
14 abortion decisions. The main deficiency of the study, however, is its reliance on a hypothetical
15 which is stripped of the complexities of the actual circumstances a pregnant woman considering
16 abortion might be operating under. As Dorothy Vawter and Karen Gervais have noted: "[G]iven
17 how situation-specific women's abortion decisions are, it is unclear what useful information can
18 be obtained from asking women global hypothetical questions about whether they believe the
19 option to donate would affect their decision to terminate a 'generic' pregnancy sometime in the
20 future."⁴

21
22 It is difficult to deny that there is a risk that knowledge of the promise of research on stem
23 cells derived from fetal tissue will play a role in some abortion decisions, even if only very rarely.

³ Douglas K. Martin, et. al., "Fetal Tissue Transplantation and Abortion Decisions: A Survey of Urban Women," *Canadian Medical Association Journal*, 1 Sept. 1995: 153 (5), 548.

⁴ Dorothy E. Vawter and Karen G. Gervais, "Commentary on Abortion and Fetal Tissue Transplantation," *IRB*, Volume 15, no. 3 (1993), p. 5

1 However, it is not clear that much moral weight ultimately attaches to this fact. One might be
2 justified in some instances in asserting that "but for" research using fetal tissue a particular
3 woman would not have chosen abortion. But one might assign this kind of causal responsibility
4 to a number of factors which figure into abortion decisions without making ascriptions of
5 complicity. For example, a woman might choose to have an abortion principally because she
6 does not want to slow the advancement of her education and career. She might not have had an
7 abortion in the absence of policies which encourage career development. Yet, we would not
8 think it appropriate to charge those who promote such policies as complicit in her abortion. In
9 both this case and that of research, the risk of abortion is an unintended consequence of a
10 legitimate social policy. The burden on those seeking to end such policies is to show that the
11 risks of harm resulting from the policies outweigh the benefits.⁵ This minimally requires evidence
12 of a high probability of a large number of abortions which would not have occurred in the
13 absence of those policies. There is, however, no such evidence at present; nor is there any reason
14 to think that it is forthcoming.

15

16 2. *Symbolic Association*

17 Agents can be complicitous with wrongful acts for which they are not causally or morally
18 responsible. One such form of complicity arises from an association with wrongdoing which
19 symbolizes acquiescence in the wrongdoing. As James Burtchaell characterizes it, "It is the sort
20 of association which implies and engenders approbation that creates moral complicity. This
21 situation is detectable when the associate's ability to condemn the activity atrophies."⁶ Burtchaell
22 maintains that those involved in research on fetal tissue enter a symbolic alliance with the practice
23 of abortion in benefiting from it.

⁵ Cf., James F. Childress, "Ethics, Public Policy, and Human Fetal Tissue Transplantation Research," *Kennedy Institute of Ethics Journal*, June 1991, 93-121, at 109.

⁶ James T. Burtchaell, "University Policy on Experimental Use of Aborted Fetal Tissue," *IRB: A Review of Human Subjects Research* 1988; 4: 7-11, at p.9.

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1 A common response to this position is that there are numerous circumstances in which
2 persons benefit from immoral acts without tacitly approving of those acts. For example,
3 transplant surgeons and patients may benefit from deaths resulting from murder and drunken
4 driving but nevertheless condemn the wrongful acts.⁷ A researcher who benefits from an aborted
5 fetus need not acquiesce in the act of abortion any more than the transplant surgeon who uses the
6 organs of a murder victim acquiesces in the homicidal act.

7
8 This response has not, however, been satisfactory to opponents of fetal tissue research.
9 They maintain that fetal tissue research implicates those involved in a kind of evil which cannot
10 be attributed to the transplant surgeon in the example above. Unlike drunken driving and murder,
11 abortion is an institutionalized practice in which certain classes of humans (which pro-lifers
12 regard as the moral equivalent of persons) are allowed to be killed. In this respect, some foes of
13 abortion suggest that fetal tissue research is more analogous to research which benefits from
14 victims of the Holocaust.⁸

15
16 But whatever one thinks of comparisons between the victims of Nazi crimes and aborted
17 fetuses—and many are understandably outraged by them—one could concede the comparisons
18 without concluding that fetal tissue research is morally problematic. There are, of course, some
19 who believe that those who use data derived from Nazi experiments are morally complicit with
20 those crimes. For example, Seidelman writes: "By giving value to (Nazi) research we are, by
21 implication, supporting Himmler's philosophy that the subjects' lives were 'useless' This is to

⁷ Cf., John Robertson, "Fetal Tissue Transplant Research is Ethical," *IRB: A Review of human Subjects Research*, 1988 4: 5-7; D. Vawter, W. Kearney, K. Gervais, ALCaplan, D. Garry, C. Tauer, *The Use of Human Fetal Tissue: Scientific, Ethical and Policy Concerns*, (Minnesota: University of Minnesota, 1990).

⁸ Cf., James Bopp, Jr., "Fetal Tissue Transplantation and Moral Complicity with Induced Abortion," in P. Cataldo and A. Moraczewski, eds., *The Fetal Tissue Issue: Medical and Ethical Aspects* (Braintree, MA: Pope John Center, 1994).

1 argue that, by accepting data derived from their misery we are, *post mortem*, deriving utility from
2 otherwise useless life. Science could thus stand accused of giving greater value to knowledge
3 than to human life itself."⁹ But one need not adopt this stance. Instead, one can reasonably hold
4 that the symbolic meaning of scientists' actions must be divined solely from their intentions. As
5 Benjamin Freedman writes:

6
7 A moral universe such as our own must, I think, rely on the authors of their own actions
8 to be primarily responsible for attaching symbolic significance to those actions . . . [I]n
9 using the Nazi data, physicians and scientists are acting pursuant to their own moral
10 commitment to aid patients and to advance science in the interest of humankind. The use
11 of data is predicated upon that duty, and it is in seeking to fulfill that duty that the
12 symbolic significance of the action must be found.¹⁰

13
14 It is likewise reasonable to maintain that the symbolic significance of support for research
15 using stem cells derived from fetal tissue lies in the desire to promote public health and save lives.
16 This research is allied with a noble cause, and any taint that might attach from the source of the
17 stem cells diminishes in proportion to the potential good which the research may yield.

18
19 ***Consent***

20 There is wide agreement that women should not be allowed to terminate a pregnancy for
21 the purpose of donating fetal material. There are two consent requirements which can help
22 insulate the decision to donate from the decision to abort: (a) Informed consent for an abortion
23 must be prior to the consent to donate; (b) In the consent process for abortion, there must be no

⁹ W.E. Seidelman, "Mengele Medicus: Medicine's Nazi Heritage," *The Milbank Quarterly* 66, 221-239 (1989).

¹⁰ Benjamin Freedman, "Moral Analysis and the Use of Nazi Experimental Results," in *When Medicine Went Mad*, ed. A. Caplan (1992), p.151.

1 (unsolicited) mention of the possibility of using fetal materials in research and transplantation.

2

3 The most serious charge against these restrictions on the consent process is that it is
4 disrespectful of the autonomy of women considering abortion to withhold information from
5 them regarding the donation of fetal tissue. Because this information might be important to a
6 woman's abortion decision, the failure to disclose the information would render the consent for
7 the abortion ethically invalid.¹¹

8

9 There are, however, a number of difficulties with this argument. First, it is not clear that
10 information about the possibility of donation is materially relevant to the abortion decision, since,
11 as discussed above, there is not adequate evidence that the option of donation (where financial
12 incentives and directed donations are prohibited) would ever function as a reason for a woman to
13 abort a fetus. Second, assuming the possibility of donation is materially relevant to some
14 women's abortion decisions, there is an obligation not to disclose the option if it is unethical for
15 women to abort for this purpose. Finally, if clinic personnel are permitted to discuss donation
16 prior to obtaining a woman's consent for abortion, women may be (or feel) pressured to have an
17 abortion, in which case the voluntariness of the consent will be in doubt.¹²

18

19 Another problem about consent concerns the matter of who has the moral authority to
20 consent to donate fetal tissue. Some object that, from an ethical standpoint, a woman who
21 chooses abortion forfeits her rights to determine the disposition of the dead fetus. Burtchaell, for
22 instance, argues that "the decision to abort, made by the mother, is an act of such violent
23 abandonment of the maternal trusteeship that no further exercise of such responsibility is

¹¹ Douglas Martin, "Abortion and Fetal Tissue Transplantation," *IRB: A Review of Human Subjects Research*, Vol. 15, No. 3 (1993), pp. 1-3.

¹² See Vawter and Gervais, note 2.

1 admissable.¹³

2

3 John Robertson argues that this position mistakenly assumes that the disposer of
4 cadaveric remains acts as the guardian or proxy of the deceased. Instead, "a more accurate
5 account of their role is to guard their own feelings and interests in assuring that the remains of kin
6 are treated respectfully."¹⁴ But even if we suppose that a woman does forfeit her moral authority
7 to determine the disposition of her aborted fetus, it is not clear that informed consent is always
8 ethically required for the use of cadaveric remains. The requirement of informed consent in
9 medical practice is largely meant to protect the autonomy of persons. In the absence of any
10 person whose autonomy must be respected, it does not seem that the failure to obtain consent
11 violates anyone's rights.¹⁵

12

13 **Research With Stem Cells Derived from Spare IVF Embryos**

14

15 Research with stem cells obtained from human embryos poses moral difficulties which
16 do not arise in the case of fetal tissue. Whereas researchers using fetal tissue are not responsible
17 for the death of the fetus, researchers using stem cells derived from embryos will typically be
18 implicated in the destruction of the embryo. This is true whether or not researchers participate in
19 the derivation of embryonic stem cells. As long as embryos are destroyed as part of the research
20 enterprise, researchers using embryonic stem cells (and those who fund them) will be complicit in
21 the death of embryos.¹⁶

¹³ Burtchaell, note

¹⁴ Robertson, note, p.6

¹⁵ Cf. D. Gareth Jones, "Fetal Neural Transplantation: Placing the Ethical Debate Within the Context of Society's Use of Human Material," *Bioethics*, Vol. 3, No. 1, 22-43 (1991).

¹⁶ There may be some circumstances in which researchers using embryonic stem cells would not be complicit in the destruction of embryos. John Robertson argues that there would

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1 An ethical analysis of research with embryonic stem cells must address the issue of the
2 moral status of embryos. The debate about the moral status of embryos has traditionally
3 revolved around the question of whether the embryo has the same status as children and adult
4 humans, with a right to life which cannot be sacrificed for the greater good. On one end of the
5 spectrum of positions on the issue is the view that the embryo is a mere cluster of cells which has
6 no greater standing than any other human cells. From this perspective, there are few, if any,
7 limitations on beneficial research uses of embryos. At the other end of the spectrum is the view
8 that embryos are persons with a right to life. On this view, research involving the destruction of
9 embryos is absolutely prohibited. An intermediate position is that the embryo merits respect as
10 human life, but not the level of respect accorded persons. Whether research using embryos is
11 acceptable on this account depends upon just how much respect the embryo is thought to
12 deserve.

13

14 While the moral permissibility of research using stem cells derived from embryos turns
15 upon the status of the embryo, the prospects of mediating the stand-off between opposing views
16 on the matter are dim. A brief consideration of the competing positions will reveal some of the
17 difficulties of resolving the issue.

18

19 The standard move made by those who deny the personhood of embryos is to identify
20 one or more psychological or cognitive capacities which are thought essential to personhood (and
21 a concomitant right to life) but which embryos lack. The capacities most commonly cited include
22 consciousness, self-consciousness, and reasoning.¹⁷ The problem faced by such accounts is that

be no complicity where an investigator's research plans or actions had no effect on whether the original immoral derivation occurred. Robertson, *Ethics and Policy in Embryonic Stem Cell Research*, *Kennedy Institute of Ethics Journal* (forthcoming, 1999).

¹⁷ Cf. , Mary Anne Warren, "On the Moral and Legal Status of Abortion, *The Monist*, vol. 57 (1973); Michael Tooley, *Abortion and Infanticide* (Oxford, 1983). Joel Feinberg, *Abortion*, in Tom Regan ed., *Matters of Life and Death* (Random House, 1986).

1 they seem either under or over-inclusive, depending on which capacities are invoked. If one
2 requires self-consciousness or reasoning, most early infants will not satisfy the conditions for
3 personhood. If sentience is regarded as the touchstone of the right to life, then non-human
4 animals will also possess this right. Since most of those who reject the personhood of the
5 embryo believe that newborn infants do possess a right to life and animals do not, these
6 capacities cannot generally be accepted as morally distinguishing embryos from other human
7 beings.

8

9 Of course, those who reject that embryos have the standing of persons can maintain that
10 the embryo is simply too nascent a form of human life to merit the kind of respect which we
11 accord more developed humans. However, in the absence of an account which decisively
12 identifies the first stage of human development at which destroying human life is morally wrong,
13 one can reasonably hold that it is not permissible to destroy embryos.

14

15 Those who oppose the destruction of embryos believe that there are positive arguments
16 which support their position. The basic claim is that embryos are human beings, and as human
17 beings they have a right to life. The humanity of the embryo is thus thought to confer the status
18 of a person upon it. The problem here is that the premise that all human beings have a right to life
19 is not self-evidently true. Indeed, many believe that the premise conflates two categories of
20 "human beings"—namely, the genetic and the moral.¹⁸ On this view, mere genetic humanity is
21 not sufficient to render a being a member of the moral community. While it is not clear that
22 those who advance this position can establish the point at which genetic humans first become
23 moral humans, those who oppose the destruction of embryos fail to establish that we can ascribe
24 moral personhood to all genetic humans.

25

26 The conflict between competing views on the moral status of the embryo appears to be an

¹⁸ Cf. Warren, note 2

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1 interminable one because each view operates with a fundamentally different conception of the
2 meaning and value of human life. As Ronald Dworkin argues (in the abortion context), the
3 ultimate source of the conflict seems to be a disagreement about whether "the natural investment
4 in human life is transcendentally important," so that "premature death is the greatest frustration
5 of life possible."¹⁹ In this sense, the conflict over the status of the embryo might be regarded as
6 "at bottom *spiritual*."²⁰

7
8 NBAC does not presume to be in a position to settle the perennial debate over the moral
9 status of embryos. Ideally, public policy recommendations on the use of embryos in research
10 should be formulated in terms which individuals with opposing views on the status of the
11 embryo can accept. As Thomas Nagel argues, "In a democracy, the aim of procedures of
12 decision should be to secure results that can be acknowledged as legitimate by as wide a portion
13 of the citizenry as possible."²¹ Amy Gutmann and Dennis Thompson similarly argue that the
14 construction of public policy on morally controversial matters should involve a "search for
15 significant points of convergence between one's own understandings and those of citizens whose
16 positions, taken in their more comprehensive forms, one must reject."²²

17
18 R. Alta Charo offers an approach to policy on embryo research, which seeks to
19 accommodate the interests of individuals who hold conflicting views on the status of the embryo.
20 Charo argues that we can avoid the issue of moral status altogether by addressing the issue of the
21 proper limits of embryo research in terms of political philosophy rather than moral philosophy:

¹⁹ Ronald Dworkin, *Life & Dominion* (Vintage, 1994), p.91.

²⁰ *Ibid.*, p.101.

²¹ Thomas Nagel, *Moral Epistemology*, in *Society & Choices* (National Academy Pr., 1995), p.212.

²² Amy Gutmann and Dennis Thompson, *Democracy and Disagreement* (Harvard, 1996), p.85.

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The political analysis entails a change in focus, away from the embryo and the research and toward an ethical balance between the interests of those who oppose destroying embryos in research and those who stand to benefit from the research findings. Thus, the deeper the degree of offense to opponents and the weaker the opportunity for resorting to the political system to impose their vision, the more compelling the benefits must be to justify the funding.²³

On Charo's view, once we recognize that the substantive conflict among fundamental values surrounding embryo research cannot be resolved in a manner which is satisfactory to all sides, the most promising move is to perform a cost-benefit analysis of proceeding with the research. Thus, one could acknowledge that embryo research will deeply offend many people, but argue that the potential health benefits for this and future generations outweigh the pain experienced by opponents of the research.

It is, however, questionable whether Charo's political analysis successfully brackets the moral status issue. One might object that placing the lives of embryos in this kind of utilitarian calculus will only seem appropriate to those who already presuppose that embryos do not have the status of persons. After all, we would expect most of those who believe **B**or who genuinely allow for the possibility **B**that embryos have the status of persons, to regard such consequentialist grounds for sacrificing embryos as problematic.

An acceptable political approach must seek to develop public policy around points of convergence in the moral positions of those who disagree about the status of the embryo. Of course, as long as the disagreement is cast strictly as one between those who think the embryo is

²³ R. Alta Charo, *The Hunting of the Snark: The Moral Status of Embryos, Right-to-Lifers, and Third World Women*, 6 *Stan. L. & Policy Rev.* 11 (1995).

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1 a person with a right to life and those who think it has little or no moral standing, the quest for
2 convergence will be an elusive one. But there are grounds for supposing that this is a misleading
3 depiction of the conflict. Once this is recognized, it will become clear that there is a sufficient
4 amount of overlapping consensus on the status of embryos to justify some research uses of stem
5 cells derived from them.

6
7 In his discussion of the abortion debate, Dworkin notes that, despite their rhetoric, a large
8 faction of the opposition to abortion does not actually believe that the fetus is a person with a
9 right to life. This is revealed through a consideration of the exceptions which they permit to their
10 proposed prohibitions on abortion:

11
12 It is a very common view, for example, that abortion should be permitted when necessary
13 to save the mother's life. Yet this exception is also inconsistent with any belief that a fetus
14 is a person with a right to live. Some people say that in this case a mother is justified in
15 aborting a fetus as a matter of self-defense; but any safe abortion is carried out by
16 someone else—a doctor—and very few people believe that it is morally justifiable for a
17 third party, even a doctor, to kill one innocent person to save another.²⁴

18
19 Some abortion conservatives further hold that abortion is morally permissible when a
20 pregnancy is the result of rape or incest. Yet, as Dworkin comments, **A**[i]t would be contradictory
21 to insist that a fetus has a right to live that is strong enough to justify prohibiting abortion even
22 when childbirth would ruin a mother's or a family's life but that ceases to exist when the
23 pregnancy is the result of a sexual crime of which the fetus is, of course, wholly innocent."²⁵

24

²⁴ Dworkin, note 4 at p.32.

²⁵ Ibid.

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1 The importance of these exceptions in the context of research uses of embryos is that
2 they suggest we can identify some common ground between liberal and conservative views on
3 the permissibility of destroying embryos. Conservatives who allow these exceptions implicitly
4 hold with liberals that very early forms of human life can sometimes be sacrificed to promote the
5 interests of other humans. While liberals and conservatives disagree about the range of ends for
6 which embryonic or fetal life can properly be sacrificed, there are some areas of convergence.
7 Conservatives who accept that killing a fetus is permissible where it is necessary to save the life of
8 the mother should agree with liberals that it is also permissible to destroy embryos where it is
9 necessary to save people. It is not clear what permissible research goals for uses of embryos can
10 be deduced from the rape and incest exceptions. However, since there is less agreement among
11 conservatives about whether these should be exceptions, it is best not to attempt to draw too
12 much from them. The following would seem a reasonable statement of the consensus at which
13 most conservatives and liberals should be able to arrive:

14

15 Research which involves the destruction of embryos is permissible where there is good
16 reason to believe that it is necessary to cure life-threatening or severely debilitating
17 diseases.²⁶

18

19 Given the great promise of stem cell research for saving lives and alleviating suffering, this
20 consensus appears to be sufficient to permit research uses of stem cells derived from embryos.
21 Some might object that the benefits of the research are too uncertain to justify a comparison with
22 the abortion exceptions. But the lower probability of benefits from research uses of embryos is
23 balanced by a much higher ratio of potential lives saved for lives lost. Another objection is that it
24 is unnecessary to use embryos for stem cell research because there are alternative means of

²⁶ It is worth noting that the abortion exceptions which serve as the basis for this consensus statement are exceptions to the law banning federal funding for abortions (Title V, Labor, HHS, and Education Appropriations, 112 Stat. 3681-385, Sec. 509 (a) (1) &(2)).

1 obtaining stem cells. This is an important concern. The derivation of stem cells from embryos is
2 justifiable only if there are no less morally problematic alternatives for advancing the research. At
3 present, there appear to be strong scientific grounds for using embryos. But this is a matter
4 which must continually be revisited as the science advances.

5

6 **Research With Stem Cells Derived from Embryos Created for Research**

7

8 The central arguments in favor of creating embryos expressly for stem cell research are
9 that (1) there may be an inadequate supply of spare IVF embryos, and (2) an embryo created by
10 somatic cell nuclear transfer may offer the most promising way to obtain autologous tissue for
11 transplantation.

12

13 Assuming the creation of embryos is scientifically and/or medically necessary (which has
14 not clearly been established at this point), the question arises whether there is a compelling moral
15 distinction between using spare IVF embryos and embryos created for research.

16

17 *The “discarded-created” distinction: on the intentions of embryo makers²⁷*

18 Thoughtful people have suggested that there is an important moral difference between
19 doing research on embryos originally created with the intention of using them for reproduction
20 and doing research on embryos originally created with the intention of using them for research.
21 The former class of embryos becomes available for research only when it is discovered that
22 members of it are no longer needed for reproduction; only then are they “discarded” and only
23 then do they become available for research. The latter class of embryos would be “created”
24 specifically for the purpose of research. According to this view, doing research on embryos
25 originally created for reproduction (“discarded”) is far easier to justify than is doing research on

²⁷ The discussion which follows is adapted from Eric Parens’s commissioned paper. Staff is in the process of further developing this section.

1 embryos originally created for research.

2

3 One ethical intuition that seems to motivate the discarded-created distinction is that

4 whereas the act of creating an embryo for reproduction is respectful in a way that is

5 commensurate with the moral status of embryos, the act of creating an embryo for research is

6 not. Because the first class of embryo was brought into being under moral circumstances—

7 because the intentions of its makers were moral—research on them is deemed acceptable.²⁸

8 Because the second class of embryo was *not* brought into being under equally moral

9 circumstances—because the intention of its makers were not equally respectable—research on

10 them is deemed unacceptable. According to this view, the moral status of the embryo (and thus

11 the moral status of research on it) is a function of the intention of its maker. The problem with

12 this intuition is that it is difficult to see what the intention of the maker of something has to do

13 with the moral status of that thing once it has come into being. We do not think, for example,

14 that the moral status of children is a function of their parents' intention at the time of conception.

15 If what something *is* obliges us to treat it some ways and not in others, then how it *came into*

16 *being* is usually thought to be morally irrelevant.

17

18 It may be that another and closely related motivation for taking the discarded-created

19 distinction seriously, is the intuition that whereas in creating embryos for reproduction scientists

20 are helping nature along toward a natural purpose, in creating embryos for research they are not.

21 According to this intuition, whereas helping nature along is praiseworthy, doing something

22 different from what happens “naturally” is not. In other words, whereas intending to create

23 embryos for the purpose of reproduction is *natural*, intending to create them for the purpose of

24 research is *artificial*. The problem with this intuition is that both projects (reproduction and

²⁸ “For most people it is the intention to create a child that makes the creation of an embryo a moral act.” George Annas, Arthur Caplan, and Sherman Elias, “The Politics of Human-Embryo Research—Avoiding Ethical Gridlock,” *New England Journal of Medicine* 554, no. 20 (May 16, 1996): 1329-32 at 1331.

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1 research) entail the intentional creation of embryos in the highly “artificial” context of an IVF
2 clinic. Thus it is difficult to see why policy makers should give credence to the natural/artificial
3 distinction in attempts to delineate the moral difference between doing research on embryos
4 originally intended for reproduction and those originally intended for research.

5
6 But perhaps what motivates the distinction is not a view about the intention or purpose of
7 the maker of the embryo at the time of creation, but, more pragmatically, a view about what to do
8 with embryos once they are already here. Perhaps the motivation for the distinction is simply the
9 view that it would be wasteful *not* to use embryos that are already here (regardless of their
10 origin). Whereas this view about wastage may support the claim that using embryos that are
11 already here is ethically acceptable, it sheds no light on whether creating embryos for research is
12 acceptable. The holder of this view assumes that creating embryos for research is wrong. But
13 that assumption is rejected by those who hold the “intermediate moral status” view of embryos.
14 That is, by itself, the intuition about wastage cannot alone justify the created-discarded
15 distinction.

16
17 It may be that another thing at work in taking the distinction seriously is the intuition that
18 the good of helping an infertile couple become pregnant is *greater than* the good of doing
19 embryo research. But insofar as most of that research aims at helping *many* couples overcome
20 infertility and become pregnant, it is difficult to see why that good is of lesser moral weight than
21 the good of helping an individual couple. If the good of helping an individual couple become
22 pregnant is great enough to justify the creation of embryos, then it would seem that the good of
23 helping many couples to become pregnant is an equally strong justification.

24
25 Another thing that clearly motivates taking the distinction seriously is a concern about
26 instrumentalization.²⁹ The concern is that, different from creating embryos for the purpose of

²⁹ HERP, p. 53.

1 reproduction, creating them for the express purpose of research could make us increasingly think
2 of them as mere means to our ends rather than as ends in themselves.

3 A last thing that may motivate the created-discarded distinction is a concern that allowing
4 the creation of embryos for research will increase pressure on women to donate ova for that
5 purpose. It is interesting to note, however, that the Canadian Commission suggested that *not*
6 allowing the creation of embryos for research would increase pressure on women; the Canadians
7 suggested that allowing researchers to create embryos for research would *decrease* pressure on
8 women in IVF programs to donate unused eggs or zygotes.³⁰ Though the Canadian
9 Commission’s strategy might decrease pressure on women who already have undergone IVF
10 procedures, there remains the question concerning when and where else researchers will get the
11 eggs they need to create embryos. It is entirely plausible that that perceived need will create
12 subtle or not-so-subtle pressure on women to donate ova.

13

14 *IVF v. SCNT: On the different means used to create embryos*

15 Do the *means* used to make the embryo make a moral difference? This question arises
16 from the observation that whereas IVF as a means to achieve the purpose of reproduction is
17 widely accepted, SCNT as a means to achieve the same purpose has been widely rejected.

18

19 Aside from concerns about risk, the rejection of “reproductive cloning” is based upon a
20 widespread worry about the psychological consequences of producing children with means that
21 replicate an extant genotype rather than creating a new one.³¹ However, since here we are talking
22 about using SCNT for research (*not* reproduction), worries about reproducing an extant genotype
23 (worries about psychological consequences for children) are not relevant. If in general we accept
24 the limited creation of embryos for research, and if by definition the harms-to-children concerns

³⁰ HERP, p. 56.

³¹ *Cloning Human Beings: Report and Recommendations of the National Bioethics Advisory Commission.*

1 don't apply to using SCNT to produce embryos for research, then is there another reason to
2 object to or worry about using SCNT for that purpose?

3 One reason to object to using SCNT to produce embryos for research might be that
4 SCNT will significantly increase the supply of embryos—and thereby decrease respect or awe
5 before them. This worry overlooks two facts. First, both “traditional” IVF and SCNT are limited
6 by the number of available human ova; I am not aware of a reason to think that that number is
7 going to grow fast. Second, at this point, it is more difficult to produce embryos with SCNT than
8 with IVF; it is not reasonable to assume that researchers will rush to use SCNT. Thus it does not
9 seem reasonable to worry that SCNT will significantly increase the number of, and thereby
10 decrease the respect accorded, embryos in general.

11
12 There may, however, be another more substantial worry in this context. This is the worry
13 that since embryos created by means of SCNT are not genetically unique³², and since genetic
14 uniqueness is one of the valued properties of embryos created by IVF, embryos created by
15 means of SCNT may be respected less than those created by IVF. That is, one might worry that
16 producing embryos by means of SCNT will contribute to an instrumental or cheapened view of
17 them.

18

³² To be more precise, the *nuclear* DNA of embryos produced by SCNT is not unique; because of the mitochondrial DNA contributed by the enucleated ovum, an embryo produced by SCNT *is* genetically unique. This minor technical point doesn't change the fact that many may worry about the moral significance of replicating (nuclear) genotypes, even in the research context.