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## **The human embryo in the Christian tradition: a reconsideration**

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### *Summary*

*Recent claims that the Christian tradition justifies destructive research on human embryos have drawn upon an article by the late Professor Gordon Dunstan which appeared in this journal in 1984. Despite its undoubted influence, this article was flawed and seriously misrepresented the tradition of Christian reflection on the moral status of the human embryo.*

### **Recent mistaken claims concerning the Christian tradition**

In January 2001, the Anglican Bishop of Oxford claimed that destructive embryo research was consistent with traditional Christian thinking on the moral status of the embryo:

I should like to suggest that it was only in the 19<sup>th</sup> century that the [Roman Catholic] position became firmed up. Earlier Christian thought on this subject indicates an awareness of a developing reality, with developing rights as we would put it.[1]

The Bishop was subsequently appointed Chair of the House of Lords Select Committee on Stem Cell Research, which conducted the most significant parliamentary review of embryo experimentation since the Warnock committee which reported in 1984.

The Bishop's argument was based on an article by Professor Gordon Dunstan. This article was written as a submission to the Warnock committee and was published in 1984 in this journal.[2] Dunstan asserted:

The claim to absolute protection for the human embryo 'from the beginning' is a novelty in the Western, Christian and specifically Roman Catholic moral traditions. It is virtually a creation of the later nineteenth century, a little over a century ago; and that is a novelty indeed as traditions go.[3]

The article also influenced the Anglican Primate of Australia, who published a defence of embryo research in April 2002.[4] Dunstan's article continues to feature in the stem cell debate, being recommended, for example, on the website of *The International Society for Stem Cell Research*. [5]

There are many arguments at play in the contemporary debate over the ethics of embryonic stem cell research. The aim of the present paper is to focus on the particular argument presented by Dunstan in his 1984 article and reiterated in 1988.[6] This paper will argue that Dunstan's article is flawed and misleading.

### **The "catena of evidences"[7]**

Dunstan draws on a range of sources spanning three thousand years of moral reflection. These include two greatly respected works of Catholic scholarship,[8] five

ancient near eastern law codes,[9] two ancient embryologists,[10] four representatives of the early Church,[11] three Celtic penitentials,[12] three English lawyers,[13] one Tudor physician,[14] the greatest of all medieval poets,[15] five Catholic moral theologians,[16] and no fewer than five popes.[17]

These writers are said to reflect a single coherent moral tradition that “attempted to grade the protection accorded to the nascent human being according to the stages of its development”. The article presents Pius IX as the one who effectively abandoned the tradition when, in 1869, he extended the penalty of excommunication to all abortions “without distinction... as to the gestational age of the fetus”.

Dunstan acknowledges three “apparent dissentients” to the tradition he claimed was dominant: Tertullian, who is discounted with relative ease as he was “by no means accounted orthodox”; Basil the Great, whose weight is counterbalanced by that of his own brother, Gregory of Nyssa; and Pope Sixtus V who in 1588 “summarily abolished the tradition” only for it to be reaffirmed in 1591 by “the next pope, Pius IX”. [18] Having considered these three alleged exceptions, Dunstan confidently claims that the tradition according the embryo the moral status of a human being from the beginning of its development is “virtually a creation of the later nineteenth century”.

At first glance, Dunstan appears to have produced a persuasive case that the Christian tradition has only relatively recently accorded absolute respect to the early embryo. However, his case is much weaker than it first appears. Dunstan omits important authorities, relies on flawed sources, and fails to distinguish between divergent categories.

### **Troubling omissions**

Professor Dunstan describes Tertullian as a “dissentient” for his view that “to deny birth is to hasten homicide” [19] but he omits to cite any other figure from the first three centuries of Christianity to show that Tertullian’s view was unorthodox. In fact, the first generations of Christians, as represented by *The Didache*, *The letter of Barnabas*, Athenagoras and Municius Felix, universally characterised abortion as *homicide*. [20] Their extension of care to the youngest and weakest was in conscious opposition to the prevalent pagan acceptance of abortion and infanticide. [21] Far from adopting a “graded” view, all witnesses to the early Christian tradition reject abortion without distinction as to stage of development of the embryo.

Basil the Great is also described as a “dissentient”, but again Dunstan omits consideration of the particular tradition to which he belongs. Basil was the first Christian canonist to consider a distinction between the “formed” and the “unformed” embryo and, as Dunstan acknowledges, Basil decisively rejected it. In this he was wholly in conformity with dominant tradition of church legislation in the first millennium (Elvira (305); Ancyra (314); Basil (375); Lerida (524); Braga (527); Trullo (692); Mainz (847)), which treated abortion as homicide without distinction as to the stage of development of the embryo. [22]

The article contrasts Basil’s view with that of his brother, Gregory of Nyssa who once asserted that it is “not... possible to style the unformed embryo a human being, but

only a potential one”.[23] However, this quotation does not refer to a gradation *within* pregnancy between the formed and unformed embryo but to a distinction between the born and the unborn child. It is from a highly polemical work in which Gregory’s characterisation of the unborn is distorted by his desire to criticise the unorthodox beliefs of some Christians in Macedonia. He denied that these Christians were properly baptized and derided them as unformed and “unborn”. Nevertheless, when Gregory addressed the subject directly, he argued that the unborn child possesses a spiritual soul from conception.[24] Far from contradicting Basil’s view, Gregory’s account of ensoulment strengthens the case for treating abortion as homicide irrespective of the embryo’s stage of development.

Professor Dunstan confesses that he “has not pursued the question” whether Basil’s judgement persisted in the Greek Churches. This is a rather glaring omission. In fact the Eastern Churches never embraced the “graded” view that Dunstan presents as *the* Christian tradition until the nineteenth century.

Dunstan presents Pius IX in 1869 as breaking with received Christian tradition in a desperate attempt to oppose an alleged increase in abortion in the nineteenth century. What is omitted from this picture, among other things, is the revival in the West of the early Christian belief that the spiritual soul is infused at conception. In the sixteenth century both Calvin and Luther came to believe that the soul is present in the embryo from conception.[25] In 1621 this belief was advocated within the Catholic tradition by Paolo Zacchia, who was later appointed physician to Innocent X.[26] The view that the soul is present from conception seemed to find further support in a series of scientific discoveries. In 1672 egg follicles were observed under the microscope. In 1677 spermatozoa were observed in the semen. Biologists in the modern era understand the development of the embryo as a continuous process with fertilization – the fusion of egg and sperm – marking the beginning of a new living being. Dunstan fails to register these relevant advances in biological understanding and, significantly, he cites no medical authors between 1577 and the present.

What Professor Dunstan represents as a “novelty” actually represents the earliest Christian tradition as maintained by the Churches of the East and as revived in the West during the Reformation. The re-emergence of the early Christian view within the Roman Catholic tradition was the result of the demise of ancient Greek biology in the wake of scientific discoveries in the seventeenth century. The belief that the early embryo deserves the protection due to a human being can hardly, therefore, be dismissed as “virtually an invention of the late nineteenth century”.

### **Flawed authorities**

As well as omitting significant portions of the tradition, Dunstan’s case is also flawed in that the authors he quotes with approval relied heavily upon ideas and authorities that are no longer credible. For example, Dunstan emphasises the importance of a passage in one particular Greek translation of the Bible (the ‘Septuagint’ translation) which introduced the formed/unformed distinction into the Christian tradition:

And if two men are fighting and strike a pregnant woman and her infant departs *not fully formed*, he shall be forced to pay a fine: according to

whatever the woman's husband shall lay upon him, he shall give with what is fitting. But if it is *fully formed*, he shall give life for life...  
(Exodus 21:22-23 from the Septuagint translation)

However, Dunstan admits that this translation marks a "significant departure" from the original Hebrew of the passage. The original Hebrew text contains no reference to formed or unformed, but distinguishes penalties according to whether the departure of the infant from the womb results in "serious harm". The Septuagint version of this passage is thus a *mistranslation*, shaped not by the underlying Hebrew but by what Dunstan acknowledges is "an outmoded" Greek embryology.[27]

This unfortunate mistranslation had an extensive influence on later writers. Dunstan quotes a passage from Augustine to the effect that killing an unformed embryo is not homicide:

If what is brought forth is unformed but at this stage some sort of living, shapeless thing, then the law of homicide would not apply, for it could not be said that there was a living soul in that body, for it lacks sense, if it be such as is not yet formed and therefore not yet endowed with sense.[28]

Nevertheless, Augustine's attitude is more ambiguous than it might seem and this becomes evident if we examine this passage more closely. This is made difficult because, unaccountably and without warning the reader, Dunstan has deleted a whole line from the middle of the passage. After "living, shapeless thing" Augustine adds the qualification "since the great question of the soul is not to be rushed into rashly with a thoughtless opinion". This raises the issue of the origin of the soul, a question which Augustine discusses in many of his writings. Augustine remained open to the view that the soul was generated by the parents, as this seemed to explain the inheritance of original sin. This view implies that the soul is present from conception. By deleting the line Dunstan conceals the fact that Augustine's account of the origin of soul is in tension with the rest of this passage. Indeed, earlier in the article Dunstan explicitly acknowledges that the view that the soul is given by the parents, as Tertullian held, "add[s] importance to the early embryo".[29]

If Augustine is keen to resist the "rash" or "thoughtless" rejection of the presence of the soul in the early embryo, why does he state that abortion of an unformed embryo is not homicide? He says this because he is constrained by a translation of Scripture which applies the punishment "life for life" only for abortion of a formed infant. Seeking some way of resolving this tension, Augustine suggests that, while the soul may be present in the unformed embryo, it would not yet be a "living soul" (*anima viva*) because it would not be endowed with sense. This explanation is hardly satisfying. If there is a soul in the unformed embryo then, even if it is dormant, it is surely alive. Augustine struggles and fails to make sense of a text that we now know to be a mistranslation. Apart from commenting on this one text he never suggested that the embryo was less than fully human. In particular, he continued to think that the soul might be generated by the parents and, thus, might be present in the embryo from conception.[30]

In the thirteenth century, the doctrine of "delayed ensoulment" became prevalent among Western Christians not only because of the Septuagint but also through the direct influence of the biological works of Aristotle. Aristotle stated that the body

was formed at forty days after conception for males and at ninety days for females.[31] Many Christians inferred that ensoulment happened at this point. One prominent example is Thomas Aquinas. Dunstan provides six quotations where Aquinas affirms delayed ensoulment, of which three explicitly mention Aristotle. These references inevitably raise the question whether Aquinas's conclusions were reliant upon Aristotle's biology, and, if so, what weight can be given to them in a modern context. For example, Aquinas took from Aristotle the belief that the embryo was shaped by the power of the male parent acting through vital spirits in the seed.

The formation of the body is caused by the generative power, not of that which is generated [the embryo], but of the father generating from seed.[32]

For Aquinas, the power of something follows from its nature. If the power to develop into a man were inherent in the embryo then it would already possess a human nature. However, in the light of modern genetics, it is undeniable that the power of development is inherent in the embryo. The embryo is shaped, not by the father acting at a distance, but by the embryo's own genetic nature. Thus, if we apply Aquinas's principles to modern biology, it seems that the embryo must possess a human nature, and hence a human soul, from fertilisation.

The "graded" view that Dunstan finds in Augustine and Aquinas can be traced directly to the regrettable influence of a mistranslation of Scripture and to an erroneous ancient biology. Where significant thinkers from the past such as these relied on mistaken authorities we cannot give much credence to their particular conclusions. However, we can still profit by considering their general method and approach in combining the best available scientific knowledge with enduring philosophical and ethical principles. It is noteworthy that, even though they were influenced by the Septuagint and by Aristotle's biology, other elements in the thought of Augustine and Aquinas suggest that the embryo possesses a spiritual soul from conception.[33][34][35]

### **Confused distinctions**

A final flaw in Dunstan's article is that it confuses different theological, legal and moral categories and, on the basis of this, supposes that various writers would support actions which in fact they explicitly rejected. For example, Dunstan cites an important legal decision of Innocent III which introduced the ensouled/not-ensouled distinction into Western canon law. However, it is important to note that this decision was narrowly concerned with the technical question of irregularity: whether a monk whose actions inadvertently caused a miscarriage should be barred from becoming a cleric. With respect to penance, early abortion was regarded as *homicide*. This is made clear in a passage of Raymond de Penafort quoted in the article.

If however [the embryo] is not ensouled, [abortion] is not said to be homicide so far as concerns irregularity, but it is *accounted homicide* in regard to penance.[36]

Penance is the expression of sorrow for sin, and the level of penance expresses the moral seriousness of the sin. Thus, in the middle ages, causing abortion was morally equated with homicide whatever the stage of development of the embryo. Medieval Christians who believed that the unformed embryo was not yet a human being did not

accord it the status of an irrational animal. They saw the early embryo as an already living creature whom God was preparing to receive a spiritual soul. This approach is evident, for example, in the writings of Bonaventure (d. 1274), who stated that destroying an embryo before ensoulment constitutes homicide, not according to the definition of homicide (*ratione homicidii*) but according to the malice of homicide (*maleficii*).[37] Since the seventeenth century Catholic theologians have increasingly come to think that the soul is present from the beginning of development. However, interestingly, even the most recent official teaching has shied away from defining this as a matter of doctrine. Rather, what has been emphasised throughout Christian history is that the embryo should be *treated as* a person.[38]

Dunstan asserts that in 1588, Pope Sixtus V “summarily abolished the tradition which attached culpability to the development of the fetus”. However, as noted above, the tradition prior to this point did not invoke the stage of development of the embryo to determine the *penance* for abortion and hence its moral culpability. It was Pope Gregory XIV in 1591 who introduced the relative novelty of using ensoulment to determine canonical penance on abortion, though he still maintained that abortion before this point was a grave sin. When the law was amended by Pius IX in 1869, it was in fact brought closer to what it had been in the time of Raymond of Penaforte.

It is essential to note that none of the canon-legal changes of the last thousand years invoked the stage of development to determine whether the embryo should be protected. Deliberate and direct destruction of the embryo was always viewed as a grave offence. Thus those elements from the tradition, identified by Dunstan, which support taking embryo destruction as a less serious crime than homicide nevertheless give no precedent for the approval, sanctioning or actively facilitating of embryo destruction. As licensing destructive research on human embryos for the sake of medical progress involves just such positive approval it cannot be justified, or at least not on the basis of the Christian tradition.

In summary,

- The earliest Christian witnesses and the Churches of the East generally regard the destruction of the human embryo as homicide.
- Belief in “delayed ensoulment” among medieval Western Christians was founded on a mistranslation of Scripture and on an outmoded embryology.
- Even when delayed ensoulment was believed, Christians continued to extend moral and legal protection to the human embryo from the beginning.

All the authorities cited by Professor Dunstan in favour of embryo research in fact regarded the deliberate destruction of the early embryo as homicide or as something at least analogous to homicide. None sanctioned the intentional destruction of unborn lives at any state of development. Dunstan’s thesis that the Christian tradition lends support to destructive research on early human embryos simply turns history on its head! While it is regrettable that this fallacy has been uncritically restated by the Bishop of Oxford and by the Primate of Australia, it is encouraging to see it squarely contradicted by the Archbishop of Canterbury, among others.[39]

## References

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- 4 Carnley, P Such is Life. *The Bulletin* 2002;April16:36-38.
- 5 <<http://www.isscr.org/scientists/ethics.htm>> (visited 9 March 2005).
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- 7 See reference [2] p.39.
- 8 *Dictionnaire de theologie catholique* and *Dictionnaire de droit canonique*.
- 9 Babylonian, Assyrian, Hittite and Hebrew and Greek versions of Exodus 21:22.
- 10 Hippocrates and Aristotle.
- 11 Tertullian, Basil the Great, Gregory of Nyssa and Augustine of Hippo.
- 12 Bigotian, Hibernian and Old Irish.
- 13 Henry of Bracton, Blackstone and Coke.
- 14 Thomas Vicary.
- 15 Dante Alighieri.
- 16 Raymond de Penafort, Thomas Aquinas, Cornelius a Lapide, John de Lugo, Alphonsus Liguori and Aertynus.
- 17 Innocent III, Sixtus V, Gregory XIV, Pius IX and Leo XIII.
- 18 See reference [2] p.42. The date is correct but it was neither “the next pope” nor “Pius IX” but Gregory XIV the next-but-one pope (after Urban VII).
- 19 Tertullian *Apologia* 9.8, see reference [2] p.39.
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- 24 Gregory of Nyssa *On the making of man* 29.6.
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- 26 In his work on *Medico-Legal Questions*, see reference [22] pp.163-164.
- 27 See reference [2] p.43.
- 28 Augustine of Hippo *Questions on Exodus* 80, see reference [2] p.40.
- 29 See reference [2] p.40.
- 30 *On the Freedom of the Will* 3.20; Letter 143; *On the Soul and its Origin*.
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- 32 *Summa Theologiae* IIIa Q.33 art 1 ad 4.
- 33 See reference [30].
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- 36 Raymond de Penafort *Summa de casibus poenitentiae* II: I *De homicidio*, see reference [2] p.40, emphasis added.
- 37 *Commentary on the Sentences* 4.31.4 quoted by Delmaille J. Avortement. In Naz R, ed. *Dictionnaire de droit canonique*. Paris: Larouzey et Ane 1938:1536.
- 38 Congregation for the Doctrine of the Faith *Donum Vitae* I.1.
- 39 Jones DA. A theologians' brief: on the place of the human embryo within the Christian tradition and the theological principles for evaluating its moral status. *Ethics Med* 2001;**17**(3):143-153. This was written as a submission to the House of Lords Select Committee on Stem Cell Research and was endorsed by a number of theologians including Rowan Williams, at that time Bishop of Monmouth.