



City Research Online

City, University of London Institutional Repository

Citation: Cooper, J. (2018). Organs and organisations: Situating ethics in organ donation after circulatory death in the UK. *Social Science and Medicine*, 209, pp. 104-110. doi: 10.1016/j.socscimed.2018.05.042

This is the accepted version of the paper.

This version of the publication may differ from the final published version.

Permanent repository link: <https://openaccess.city.ac.uk/id/eprint/19863/>

Link to published version: <https://doi.org/10.1016/j.socscimed.2018.05.042>

Copyright: City Research Online aims to make research outputs of City, University of London available to a wider audience. Copyright and Moral Rights remain with the author(s) and/or copyright holders. URLs from City Research Online may be freely distributed and linked to.

Reuse: Copies of full items can be used for personal research or study, educational, or not-for-profit purposes without prior permission or charge. Provided that the authors, title and full bibliographic details are credited, a hyperlink and/or URL is given for the original metadata page and the content is not changed in any way.

City Research Online:

<http://openaccess.city.ac.uk/>

publications@city.ac.uk

1 **Organs and Organisations: Situating ethics in organ donation after circulatory**
2 **death in the UK**

3 Jessie Cooper

4 Affiliation:

5 Division of Health Services Research and Management, School of Health Sciences,

6 City, University of London

7 Email: jessie.cooper@city.ac.uk

8 Tel: +44 (0)20 7040 0882

9

10 **Cite as:** Cooper, J. (2018) Organs and organisations: Situating ethics in organ donation after
11 circulatory death in the UK. *Social Science & Medicine*, 209, 104-110. DOI:
12 10.1016/j.socscimed.2018.05.042

13

14

15

16

17

18

19

20 **Abstract**

21 Controlled organ donation after circulatory death (DCD) has recently been revived in the UK, as part
22 of attempts to increase organ donation rates. The re-introduction of DCD has subsequently become
23 the focus of bioethical controversy, since it necessitates intervening in the care of dying patients to
24 obtain quality donor organs. Transplant policy responses to these concerns have generated new legal
25 and ethical guidelines to address uncertainties around DCD, producing claims that the UK has
26 overcome' the ethical challenge of DCD. In contrast, by drawing on Lynch's call to 'respecify' ethics,
27 this paper argues that ethics in DCD cannot be reduced to abstract directives for practice, but, instead,
28 are composed and dealt with as an organisational problem. To do this, I utilise data from an
29 ethnographic study examining the production of the 'minority ethnic organ donor' within UK organ
30 donation settings; in particular, the data pertains to a case hospital which was in the process of
31 developing a DCD programme during the period of fieldwork. Findings show that the ethics of DCD are
32 encountered as practical sets of problems, constructed in relation to particular institutional locales. I
33 describe how these issues are worked-around by creating conditions to make DCD organisationally
34 possible, and through the animation of standard procedures into acceptable forms of practice. I argue
35 that ethics in DCD go far beyond normative bioethical principles, to encompass concerns around: the
36 reputation of hospital Trusts, public perceptions of organ donation, the welfare of potential donor
37 families, and challenges to the work of health professionals caring for dying patients. The paper
38 enriches understanding of ethics in science and medicine by showing how ethics are assembled and
39 negotiated as a practical-organisational concern, and calls for further examination of how DCD gets
40 constructed as a potential problem and is made to happen in practice. (299 words)

41 **Key Words**

42 United Kingdom; Organ donation; transplantation; death and dying; ethics; ethnography; clinical
43 guidelines; health professional practice; organisations

44 **Introduction**

45 In 2008 the UK Organ Donor Taskforce (ODT) introduced a series of recommendations designed to
46 increase the UK's historically low rates of organ donation and tackle its large waiting lists for
47 transplantation. Among the recommendations was the requirement to urgently resolve the
48 "outstanding legal, ethical and professional issues" around controlled organ donation after circulatory
49 death (DCD) in order to "ensure that all clinicians are supported and are able to work within a clear
50 framework of good practice" (Department of Health, 2008: 9). At this time, there was no clear legal
51 position or standardised protocols for DCD in the UK, and the practice was rare (Gardiner, 2016).
52 Controlled DCD involves retrieving organs from donors who are declared dead on the basis of cardio-
53 respiratory criteria. Whilst DCD was used in early experiments of transplant medicine in the 1950s and
54 60s, it became largely obsolete after the establishment of brain death in the 1970s, enabling the
55 recovery of oxygenated organs from brain dead donors (De Vita, Snyder & Grenvik, 1993). However,
56 declines in rates of brain death over the last two decades have led to the focus on reviving DCD as a
57 way of expanding the availability of transplantable organs (Academy of Medical Royal Colleges & UK
58 Donation Ethics Committee, 2011). Since the 2008 recommendations, the UK's DCD programme has
59 rapidly expanded, with DCD donors now constituting 41% of all deceased donors in the UK (NHS Blood
60 and Transplant, 2017).

61 Yet, despite its ability to increase rates of donor organs, DCD has long been the subject of ethical
62 controversy, since it necessitates intervening in the care of dying patients in order to obtain quality
63 organs for transplantation (e.g. Bell, 2003; Fox, 1993). The resurgence of DCD has subsequently led to
64 debates in the clinical and bioethics literature regarding the tension between the drive to optimise
65 the potential for organ donation and the role of medicine at the end-of-life (Bell, 2008; Gardiner &
66 Riley, 2007; Gardiner & Sparrow, 2010). In response to these concerns, and following the ODT's
67 recommendations, the policy response to DCD has rapidly developed, with the production of new
68 clinical, legal, and ethical guidelines. These policies attempt to clarify ambiguities relating to DCD and

69 act as guides to best practice for health professionals, for example, by outlining how to assess the
70 'overall benefit' of organ donation for a dying patient (e.g. Academy of Medical Royal Colleges & UK
71 Donation Ethics Committee, 2011; British Transplant Society, 2013; Department of Health, 2009). The
72 generation of these policies has led the National Deputy Clinical Lead for Organ Donation to claim that
73 the UK has 'overcome' the ethical challenges involved in DCD, positioning the nation as a 'world-
74 leader' in the practice (Gardiner, 2016).

75

76 The official discourse around the ethics of DCD therefore gives the impression that the problem of
77 DCD has been defined, and, in turn, has been resolved through the provision of abstract directives for
78 the (ethical) practice of DCD. In contrast, in this paper, I draw on Michael Lynch's (2001, 2013) call to
79 respecify ethics in order to show how ethics in DCD are not simply universal moral issues, but become
80 locally composed within specific circumstances, at particular times. Lynch's respecification draws on
81 the tradition of ethnomethodology, which seeks to examine how taken-for-granted issues, concepts
82 and topics, like ethics, can be understood "in-and-as-of-the-workings-of-ordinary-society" (Button,
83 1991: 6) and are made "locally and practically relevant" (Lynch, 1993: xii). In taking this approach I will
84 show that ethics in DCD can be understood as practical sets of problems, which get constructed and
85 resolved within specific healthcare settings. In so doing, this paper engages with social science work
86 which contextually situates ethical issues in science and medicine (e.g. Brodwin, 2008; Hoeyer &
87 Jensen, 2012; Smith-Doerr & Vardi, 2015), by highlighting how ethics are assembled as a practical-
88 organisational problem. It also advances an alternative perspective to the clinical and bioethical
89 debates around DCD, by arguing that we cannot fully understand the ethical conundrum of DCD
90 without examining the organisational milieu within which DCD is constructed as a potential concern,
91 and is made to happen in practice.

92

93 To do this, I utilise data from an ethnographic study on the institutional production of the 'minority
94 ethnic organ donor' in the context of UK organ donation practices (Cooper, 2016; Kierans & Cooper,

95 2011, 2013). The research was conducted between 2009 and 2011 when UK organ donation services
96 were undergoing infrastructural change following the ODT's recommendations. Drawing on exemplars
97 from a case hospital, which was in the process of developing its own DCD programme during the
98 period of fieldwork, I describe the particular institutional circumstances in which DCD was both
99 produced as a potential problem for the hospital and was made practicably workable. Before turning
100 to the data, I further specify the bioethical and clinical debates around DCD. I then outline the social
101 science literatures which have dealt with diverse controversies in transplant medicine, before
102 highlighting bodies of research in the social sciences which take a situated approach to understanding
103 ethics in science and medicine – an understanding to which this paper contributes.

104

105 **DCD and its controversies: situating (ethical) concerns in organ transplantation**

106 As previously commented (Cooper, 2017), the debates around DCD are not uniquely located within
107 the UK. Arguments over the dilemmas involved in DCD were ignited in 1992 with the introduction in
108 the US of what became known as the 'Pittsburgh Protocol for non-heartbeating organ donation',
109 which advocated aggressive organ preservation techniques and the removal of organs two minutes
110 after the donor's heart stopped. This prompted debate between clinicians and bioethicists about
111 potential violations of the dead donor rule, given the short time permitted between asystole and the
112 declaration of death (Arnold & Youngner, 1993). Commenting on the protocol, the anthropologist
113 Renee Fox (1993: 231) went so far as to label DCD an "ignoble form of cannibalism", referring to the
114 "morally questionable" practices it permitted.

115 In the UK context, death is legally declared in DCD donors 5 minutes after cardio-respiratory arrest,
116 meaning organ retrieval can begin after this time (Dominguez Gil et al. 2011). While the practice of
117 DCD in the UK involves, what are considered to be, less aggressive modes of pre-mortem intervention
118 than in the US, such as adjusting life-sustaining treatments, and altering the timing and location of
119 withdrawal of care (Gardiner & Sparrow, 2010), it has, nevertheless, become the subject of intense

120 scrutiny in UK bioethics literature. Here, debates have focused upon whether DCD violates a broad
121 interpretation of the dead donor rule (the argument that living patients should not be treated ‘as
122 though they were dead’ for the purposes of organ donation) and whether potential donors receive
123 appropriate care at the end-of-life (Bell, 2003; Gardiner & Sparrow, 2010: 17; Gardiner, 2016). In turn,
124 the policy response to these debates has been rapid. This began with the publication by the
125 Department of Health in 2009 of *Legal Issues Relevant to Non-Heartbeating Organ Donation*, which
126 clarified which interventions were legally permissible in DCD. This was followed by the UK Donation
127 Ethics Committee’s (UKDEC) *An Ethical Framework for Controlled Donation after Circulatory Death*
128 (AMRC/UKDEC, 2011), and updated guidelines from the British Transplant Society for *Transplantation*
129 *from Donors after Deceased Circulatory Death* (2013). All of these policies focus on the importance of
130 assessing the ‘best’ or ‘overall’ interest of the dying patient; they justify end-of-life interventions to
131 facilitate DCD when it is understood that the dying patient would have wanted donation and that
132 further life-sustaining treatment is not of overall benefit (AoMRC/UK DEC, 2011; BTS, 2013). The
133 policies therefore focus on standardising the ethical-legal frameworks around DCD, as a way of
134 enabling the renewal of this controversial technology (Bernat, 2008; Cooper, 2017).

135 However, the prevailing representation of DCD as a bioethical concern which can be mitigated by the
136 production and implementation of clinical guidelines, means that little is known about how the ethics
137 of DCD are instantiated within everyday healthcare settings. That there is a gap in this area is
138 surprising, given the attention which has been paid to the field of organ transplantation and its
139 associated controversies by social scientists. This work, writ large, has been concerned with issues
140 regarding how and when organ donation occurs, and how and by whom organs are obtained. It
141 includes studies of: the controversy over the re-definition of death, with the introduction of brain
142 death in the 1960s and 70s (Giacomini, 1997; Lock, 2002a); ambiguities around the boundaries
143 between life and death in the context of the still-breathing brain dead organ donor (Hogle, 1999; Lock,

144 2002b; Sharp, 2006); and the commodification of organs and body parts through the trade and
145 trafficking of organs (Cohen 2002, Scheper-Hughes, 2000, Yea 2010).

146 In particular, many scholars have moved away from conceptualising transplant technologies in
147 relation to sets of abstract, universalised concerns (e.g. issues around bioethics, commodification,
148 exploitation in relation to organ trafficking etc), and have concentrated on specifying the ways in
149 which issues in organ transplantation are contextually constructed within national and local settings
150 (e.g. Cohen, 2002; Columb, 2017; Das, 2000; Hoeyer & Jensen, 2012; Hogle, 1999; Kierans, 2011; Lock,
151 2002b). Of most relevance here is Veena Das' (2000) work in India, which examines the global rhetoric
152 around organ shortages and concomitant bioethical principles of autonomy and rights in relation to
153 the selling of kidneys by the poor. She critiques these discourses, arguing that: "a vocabulary of rights
154 simply masks the faces of social suffering – such techniques of survival [selling kidneys] are seen by
155 the poor not as acts of autonomy but as part of their everyday life in which all kinds of violence has to
156 be turned into opportunity" (p.284). Das' work teaches us the importance of directing our
157 understandings not at the level of abstract ethical principles and universal discourses, but towards the
158 contexts and "fine texture of life" (Das, 2000: 284) through which subjects get forged and transplant
159 technologies are (re)articulated within everyday settings.

160 The focus by Das on the tensions between normative bioethical principles and the everyday lives of
161 those upon whom these categories are supposed to act, reflects early calls by social scientists to
162 broaden bioethics beyond the domain of moral philosophy into understandings of the "social
163 processes of moral life" (Fox, 1976; Hoffmaster, 1992; Kleinman, 1999: 72). Writing in this journal
164 more than two decades ago, Hoffmaster (1992: 1462) called for examination of the social and practical
165 dimensions of ethics by investigating the "flexible ways in which human beings actually handle moral
166 problems". These ideas have since been developed by Science and Technology Studies (STS) scholars
167 who have articulated how knowledge and experience of ethics are co-produced in the interactions
168 between bioethical frameworks and the daily work and informal discourses of scientific practice

169 (Brodwin, 2008; Pickersgill, 2012, see Jasanoff, 2004). In this vein, a growing body of social science
170 research has demonstrated the diverse ways in which ethical norms are negotiated, transgressed and
171 transformed within the constraints of institutions and according to the interests of different actors
172 (Brosnan et al., 2013; Corrigan, 2003; Hedgecoe, 2014; Heimer, 2013; Hoeyer & Tutton, 2005; Hoeyer
173 & Jensen 2012; Hoeyer, Jensen & Olejaz, 2015).

174 This work has therefore done much to refocus the normative programme of bioethics and offers a
175 useful departure point for a situated analysis of the ethics of DCD. In particular, I draw on Lynch's
176 suggestion to respecify ethics as 'ethigraphy', referring to an examination of the "circumscribed and
177 circumstantial ways moral agents handle novel conflicts and constitute natural and social orders"
178 (Lynch, 2001: 3, 2013). In the context of DCD, such an approach can lead us to pose questions, like:
179 how do (ethical) concerns around DCD emerge and operate in everyday clinical settings? And, how
180 are such issues discussed and resolved in these settings? It is these questions which this paper is
181 concerned with addressing, in order to develop a more situated understanding of the ethics of DCD.
182 Below, I outline the methodology for the broader study from which the data is taken, before turning
183 to the findings.

184 **Methodology**

185 The data in this paper is drawn from an ethnographic study which aimed to examine the institutional
186 production of the 'minority ethnic organ donor' in the UK, from the perspective of organ donation and
187 allocation practices (Cooper, 2016; Kierans & Cooper, 2011, 2013). The study was developed in
188 response to the characterisation, by transplant medicine, of UK Black and Minority Ethnic (BME)
189 populations as a problematic constituency of organ givers, due to their high demand for transplantable
190 organs and low rates of organ donation, in comparison to their 'white' counterparts (Kierans & Cooper,
191 2011). In contrast to the emphasis by health researchers on the cultural beliefs of BME groups around
192 organ donation, the project focused on the healthcare settings and institutional processes through
193 which potential (BME) donors are managed, and organ donation is requested. This approach to the

194 problem was informed by work across sociology, anthropology and science and technology studies,
195 concerned with the contexts and intricacies of scientific and medical practice (e.g. Hogle, 1999;
196 Timmermans & Berg, 2003).

197 The study was granted full National Health Service (NHS) ethics approval in June 2009. Ethnographic
198 fieldwork was conducted between October 2009 and February 2011, and concentrated on: i) the work
199 of work of two regional English teams of Specialist Nurses in Organ Donation (SN-ODs), who are
200 responsible for facilitating and managing the organ donation process; and ii) two hospital sites which
201 these teams served, namely an Intensive Care Unit (ICU) and Paediatric ICU in two acute hospital
202 Trusts. Both hospitals served large minority ethnic patient populations and had relatively low organ
203 donor rates. The ethnographic fieldwork focused on observing activities and events which would allow
204 insight into the processes and practices around organ donation, and included observations of:
205 donation training sessions for health professionals, organ donation committee meetings and regional
206 SN-OD team meetings, as well as analysing local and national policy documents around organ
207 donation. Ethical and practical difficulties involved in waiting for someone to die in the 'right' way
208 meant that it was not possible to observe the process of donation as it occurred. To provide detailed
209 insight into the donation process, twenty-six narrative interviews were conducted with 22 health care
210 professionals (these included: SN-ODs, ICU nurses, consultant intensivists and anaesthetists) who
211 were purposively recruited on the basis of them having experience of organ donation, in particular
212 with 'BME' families. Interviews focused on accounts of participants' experiences and practices around
213 requesting and managing organ donation. The interviews were audio recorded and transcribed
214 verbatim and observations were written up as fieldnotes. All participants were assigned pseudonyms,
215 and identifying features of donation cases were anonymised.

216

217 The start of fieldwork coincided with the development in one of the hospital sites (named here as
218 'Hillview') of a new DCD programme. As I describe below, this organisational change was viewed as an
219 opportunity by Hillview to increase its low rates of organ donors. As a result, much of the fieldwork at

220 Hillview eventually focused on the introduction of the DCD programme into the Trust. The research
221 data (fieldnotes and interview transcripts) was analysed iteratively during the course of the study. The
222 analytical approach was broadly thematic, looking for commonalities in meaning-making and practices
223 around organ donation, alongside situating these issues within wider institutional, social and political
224 contexts, such as the national drive to increase organ donation. Narrative interviews were also
225 subjected to a structured narrative analysis, to understand how participants constructed their
226 experiences of managing and requesting organ donation (Reissman, 2008).

227 In what follows, I first outline how concerns around DCD were constructed as sets of practical issues,
228 specific to the organisational setting of Hillview. In turn, I describe how these problems were worked
229 around by creating the conditions to make DCD practically possible for the Trust, and through the
230 animation of new DCD procedures into acceptable forms of practice for the local setting. It is
231 important to note that, while the project was focused on understanding organ donation in relation to
232 ethnicity, the broad ethnographic lens meant that data captured general institutional practices and
233 processes around organ donation to contextualise the issue (see also Kierans & Cooper, 2013). This
234 paper is therefore focused on the administrative and organisational struggles documented in relation
235 to the development of the DCD programme at Hillview, and does not only pertain to DCD in relation
236 to minority ethnic donors.

237 **Organ donation at Hillview hospital: National problem, localised concerns**

238 The year of my entry into Hillview, at the end of 2009, was a crucial time for the hospital in relation to
239 organ donation. The creation of the 2008 *Organs for Transplant* report by the Organ Donor Taskforce
240 (ODT) had impelled NHS Trusts into action to meet the ODT's overall aim of making organ donation a
241 "usual not unusual event" (Department of Health, 2008: 9) at the end-of-life. To make this aim a
242 reality, the report made a number of recommendations which were to be instituted at the local,
243 hospital Trust level. These recommendations included: embedding Specialist Nurses in Organ
244 Donation (SN-ODs) within hospital Trusts, with responsibility for facilitating the changes and managing

245 the organ donation process; appointing a Clinical Lead for organ donation, usually an ICU consultant,
246 within every Trust to promote organ donation to hospital staff and work alongside the donor nurse;
247 and introducing minimum notification criteria for organ donation, meaning that all potential donors
248 should be referred to a SN-OD for assessment. At the time of my fieldwork, the Trust was therefore
249 undergoing substantial changes in the effort to drive up its rates of organ donation. These changes
250 were being driven by the Trusts newly embedded SN-OD, Emily, who was tasked with working
251 alongside John, a Consultant Anaesthetist and Hillview's Clinical Lead for donation, to make the
252 necessary adjustments to increase organ donation at Hillview, with an eye to working to a 'UK-wide
253 perspective' (DH, 2008: 6).

254 As part of this strategy, Emily and John were in the process of developing a new DCD programme at
255 the Trust. In my interviews and discussions with them, Emily and John guided me to the particular
256 conditions at Hillview which, in their opinion, made the task of implementing the DCD programme
257 difficult: namely that the hospital serves a large South-Asian patient population, and had a reputation
258 of rarely referring potential donors to the specialist donation nurse team. Emily described the way in
259 which these factors interacted, to make DCD challenging at the hospital in various ways:

260 Historically, the unit had always had, I think it's fair to say, a very poor donation rate. And
261 the fact that there'd been one donor...since 2008 I think speaks for itself. So a number of
262 problems here: no DCD programme, a large percentage of the local population are from
263 South Asian community, and [there is a] fairly high refusal rate from this community.
264 We'd been trying to get a DCD programme in here [Hillview] for the last 6 years, but we
265 kept on hitting a brick wall with the [ICU] team at the hospital. The Consultants were all
266 concerned about the legal and ethical things around it [DCD]. They seemed to believe
267 that if they made a decision about withdrawing treatment then went forward with organ
268 donation they would have a criminal prosecution against them. So it's been a long drawn-
269 out thing, but as from a few months ago, we have finally got the DCD programme up and
270 running. (Emily, SN-OD at Hillview)

271 During later discussions with Emily and John, I was party to further uncertainties which were
272 invoked by DCD at the Trust. John discussed his fears that NHS Blood and Transplant (NHSBT)
273 were being overly-aggressive in their drive to increase donor rates, and that attempts to clarify
274 the legal aspects of DCD were not as straightforward as they may seem, explaining that “it’s
275 (DCD) not like boiling an egg: you don’t know what’s in the patient’s best interests”. Emily also
276 divulged an incident which had occurred some years previously, when an inexperienced
277 Intensive Care clinician had tried to, in her words, “push through” a non-heart beating donation
278 (as DCD was then called) without there being any policies at Hillview for this process. According
279 to Emily, a number of staff were unhappy with the occurrence: it had, as she put it, “left a bad
280 taste in peoples’ mouths”: a wariness about the new drive to implement DCD at Hillview.

281 Here we see the ways in which broader concerns around DCD – such as ethical issues involved
282 in judging the best interest of a patient, and worries about litigation – interact with the local
283 specificities of Hillview, as a Trust which was viewed to hold particular problems for the roll-out
284 of a DCD programme. These issues included: the lack of an existing culture around donation at
285 Hillview, with an ICU team little-used to managing the process of organ donation; understanding
286 donation as being more difficult in relation to the particular locale of Hillview, with a South Asian
287 patient population conceived of as particularly problematic for organ donation; and fears about
288 the reality of conducting DCD, underpinned by past experiences at the Trust. Whereas national
289 guidelines highlight abstract ethical and legal aspects of DCD, in relation to assessing the overall
290 interest of the patient during decisions around end-of-life care and organ donation, in the
291 context of Hillview, DCD became an emerging matter of concern specific to the locale within
292 which it was being implemented: in the connection to existing and historical practices, and
293 patient populations. Ethics, in this context, therefore became constructed and encountered as
294 a practical set of problems within the organisational setting of Hillview.

295 However, as I show below, the particular problems encapsulated by Hillview for the roll-out of
296 DCD were also, conversely, viewed as an opportunity for the Trust.

297 **DCD as opportunity: practically accomplishing DCD at Hillview**

298 As part of its attempts to overhaul the hospital's previously poor record on organ donation,
299 Hillview went public in its campaign to drive up its donor rates. Press releases from the hospital
300 and local media pieces reported on the new initiative to increase organ donation in the area,
301 focusing, in particular, on the need to promote donation to the local South Asian community.
302 These reports highlighted the potential for the initiative to save lives in the region, describing
303 how the increased number of donors at Hillview since the changes were rolled out had helped
304 save the lives of a number of people waiting for transplant. What was left out of the reports,
305 however, were the exact details of what this 'initiative' involved: with DCD being a key aspect
306 of Hillview's plan to overhaul its organ donation services.

307 During the course of delivering a training session presentation to ICU nurses about the roll-out
308 of DCD, Emily highlighted to her audience the fact that there were over 100 people waiting for
309 a kidney transplant at Hillview, and that nearly 10 people had died while waiting for a kidney in
310 the previous year. Emily emphasised the potential for DCD to assist in the reduction of these
311 waiting lists to her audience. This, she told them, is due to the fact that kidneys from DCD donors
312 are usually offered to local transplant centres, because of the shortened time in which kidneys
313 can be left outside the body in DCD. While problems in DCD were locally composed, they were
314 also drawn on as reason for introducing DCD at Hillview. The implementation of DCD was
315 promoted as an organisational opportunity for Hillview: it would work in the hospital's favour
316 by providing the potential to reduce its own transplant waiting lists. Rather than simply being
317 presented as a broader part of the realisation of the ODT's national recommendations, the
318 implementation of DCD was thus represented as way of tackling local problems at Hillview.

319 A crucial aspect to making the plans for DCD a reality at Hillview was through the coordination
320 of different people and resources at the hospital. For Emily and John, a large part of this work
321 involved bringing together and negotiating the interests of different actors who would be
322 involved in DCD. John explained to me the challenge of this process:

323 Initially it took right until the beginning of this year to convince the 6 main Intensive
324 Care consultants to agree to set up this programme, and the feeling was we couldn't
325 really set it up without everybody's agreement. So having got the agreement of the 6

326 main Intensivists, we then had to seek support from the rest of the team: all the
327 nursing staff, both here and theatres, and the Emergency department, and the
328 consultants in the Emergency department. And we've talked to an awful lot of people
329 in the last six months, and we got to the point where we'd got a fairly good pathway
330 defined and we're having to [...]make sure that we're all happy in how it's set out.

331 John describes the work involved to make DCD a practical possibility. This involved, in the first
332 instance, lengthy negotiations to secure the agreement of various staff members, including: Intensive
333 Care consultants, nursing staff, Emergency Department consultants, and theatre staff. During this
334 negotiation process, localised concerns about DCD were worked around and re-constructed through
335 the initiation and alignment of various people at the Trust, who were crucial for the establishment of
336 the DCD programme. In so doing, the spaces needed to perform DCD (the Emergency Department,
337 ICU wards, and operating theatres) were also made available. The production of the DCD programme
338 was therefore not simply a matter of overcoming ethical concerns about the practice itself. In order
339 to begin to consider the ethical issues involved in DCD, John and Emily had to first create the conditions
340 to ensure that DCD was a practical possibility, by co-opting diverse bodies of staff and resources into
341 going forward with the process.

342 With the support of the ICU, Emergency and Theatre departments at the Hospital, Emily and John
343 could begin to roll-out the DCD programme. A key element to achieving this was in the generation and
344 dissemination of a local protocol for DCD, to provide practical certainty to the process (Hogle, 2009).
345 One year after Emily started working at Hillview, the DCD programme was pre-launched with training
346 sessions for ICU and Emergency Department staff to introduce them to the new procedures for
347 conducting DCD at the Trust. These sessions took place during lunch-time slots in Emily's office, which
348 also doubled-up as the ICU's seminar room. During one such session with some of the ICU nurses,
349 Emily took her audience through the Trusts DCD protocol on PowerPoint slides.

350 Emily was concerned with emphasising the importance for her audience of developing ownership over
351 the new procedures around DCD, so that they were able to respond to events as they unfolded in
352 practice. She talked the nurses through each stage of DCD, encouraging their feedback at each step.
353 She asked her audience whether they thought a dying patient should be maintained with therapies if

354 they had not yet obtained their relative's agreement for donation. One nurse replied with "I wouldn't";
355 Emily assured her audience of the flexibility of this procedure, by telling them that such decisions
356 should be made as events play out on the day. One slide, highlighted in bold stated that "**consent can**
357 **be revoked at any time**", referring to the fact that families can withdraw their consent for donation
358 right up until the first incision is made in theatre. At this point, the nurses interjected with their
359 concerns about family members chasing their dead relative through the hospital corridor. One nurse
360 expressed her more general worry that families would feel under pressure to consent to donate when
361 their relative is not yet even dead. Emily interjects: "I know what you're thinking, that's what I thought
362 before I did it for the first time, but it's not like that at all." A discussion then ensued about the
363 potential problems involved in transporting someone who is obviously dead to the operating theatre
364 and how this might look to members of the public. Emily discussed likely tactics: "We'll have someone
365 waiting by the lift and to clear the corridors. We may even cover their face with an oxygen mask for
366 sanity reasons, so that you don't get people stopping you asking what you're doing with *that* patient".

367 The introduction of the new DCD programme in training sessions provoked debate and, at times,
368 criticism from ICU staff regarding possible issues it could raise for potential donor families. At the end
369 of a training session, one nurse became quite opinionated and, arms folded, expressed her worries
370 about the implications of a family member giving consent for DCD if they were not aware of their
371 relative's wishes around donation. Emily reassured her, firmly asserting that she would advise a family
372 member against going ahead with donation if they were not comfortable with the idea of it.
373 Dissatisfied with this answer, the nurse pressed: "I just don't agree with it (DCD), it sounds like you're
374 pushing it on a family. I've got a donor card but you get some families who are so distressed, and then
375 to have a team approaching them about donation is wrong". In response, Emily calmly told her that
376 everyone was entitled to their opinion and that it was important to talk about issues like the one the
377 nurse raised. In a later interview with Emily, I questioned her over this incident. Emily recalled how,
378 after the session, this particular nurse had approached her with an apology: "she said: 'I'm really sorry
379 for behaving like that in there (...) I'm really pro-donation'. I think it's difficult when you have your own
380 views and then you see patients and families isn't it? It's just that very fine line". Here, Emily refers to
381 the tension between health professionals being pro-DCD in theory, but the struggles some may

382 experience with carrying this stance into practice, when faced with dying patients and distressed
383 families.

384 It was in these training sessions, therefore, that the local concerns of ICU staff, expected to participate
385 in DCD, began to develop and become visible. These worries were largely orientated around the
386 practical tasks involved in DCD, and included: 1) *Dealing with families: the contingencies of consent:*
387 how to deal with difficult scenarios involving potential donor families, such as the problems involved
388 in approaching distressed families about DCD; concerns over whether families might change their
389 mind on their decision to donate their relative's organs, and questions about whether invasive
390 treatments should be maintained in dying patients prior to obtaining consent for donation; 2) *The*
391 *practical environment of DCD:* how to deal with the potential interaction between the public and dead
392 bodies being transported through the hospital into theatre, usually only reserved for the treatment of
393 the living. Ethics here are revealed as developing in relation to particular imagined/hypothetical
394 circumstances, and embedded within specific environments in the hospital (especially spaces where
395 the general public and deceased donors may come into contact).

396 These common-sense, situated concerns were, in turn, worked through by Emily, as part of her task
397 in training staff about the new procedure. This she did using a number of strategies, namely by:
398 reassuring her audience that the procedures they are learning are flexible: mouldable to donor
399 scenarios as they are encountered; allaying their concerns using her own experiential knowledge of
400 the process of DCD; reassuring them about certain practices that would absolutely not occur (such as
401 pressurising families into consenting); and orienting the nurses to practical solutions for potential
402 problems, such as how to conceal the dead status of a donor. In so doing, Emily translates the new
403 procedures around DCD into "locally relevant guides-to-action" (Kierans & Cooper, 2013: 226): as
404 having the ability to work with, rather than against, the everyday contingencies and concerns involved
405 in clinical practice. The conceivable (ethical, practical, personal) concerns of staff, responsible for
406 putting DCD into action, were therefore made tenable by practically orientating them to future
407 solutions within the organisational setting in which these concerns were composed, and worked
408 through.

409 These intensive preparations for the DCD programme at Hillview were a way of ensuring that
410 everything was ready to actually *do* DCD, or, in John’s words: “it was just a matter of going ahead and
411 making sure that what we’d done [to prepare] was sufficient to get us through the process [of DCD]”.
412 However, towards the end of my fieldwork, it became apparent that preparations for the (ethical)
413 practicalities of DCD could never fully encompass the reality of what was involved when a potential
414 DCD donor came along. By the time the DCD programme had been up and running for a few months
415 at the end of my fieldwork, the hospital had gone through the process of having two potential DCD
416 donors. Neither of these had ended up proceeding to donation: one patient did not die in the allotted
417 two hour time-slot after care was withdrawn (this ~ time period between withdrawal of care and the
418 patient going into asystole is necessary if the organs are to be of suitable quality to donate); the other
419 case had not gone as planned and donation did not go ahead. Interestingly, these cases were not
420 something that Emily and John discussed in detail, due to potential sensitivities over the programme
421 having only just been implemented and their first potential DCD cases not having been successful. This
422 lack of transparency around the actual practice of DCD at Hillview is more telling than frustrating. It
423 reflects the ‘silencing’ of certain stories about organ donation (Jensen, 2011; Sharp, 2006) which have
424 the potential to “undermine” the “fragile system” of transplantation, reliant, as it is, on the public
425 willingness to donate (Jensen, 2017: 121-122). In this case, these non-stories highlight the fact that
426 DCD is not only locally constructed as an ethical issue for patients, families, health professionals and
427 hospital Trusts. Ethics in DCD extends wider, into understandings around what kind of information
428 about the practice of DCD is deemed (ethically) acceptable for public consumption, in the context of
429 a perceived organ shortage and the reintroduction of DCD as a way of tackling the ever-growing
430 demand for organs.

431 **Discussion and conclusion**

432 The current focus by transplant policy-makers and bioethicists relate the ethics of DCD to sets of
433 abstract principles, which are understood as being relevant for the practice of DCD. For example, the
434 principle of ‘overall benefit’ is represented as the benchmark for practitioners, in their task of making
435 (ethical) decisions about intervening in the care of dying patients for the purposes of organ donation.

436 In other words the notion of *what* constitutes ethics in DCD and *how* DCD should be ethically practiced
437 has been drawn in stone by official discourse.

438 Whilst I am not disputing the importance of delineating what is, and is not, acceptable for clinical
439 practice in matters around end-of-life care and organ donation, the findings presented here show that
440 ethics in DCD are not abstracted moral issues, but present as emergent practical problems, which are
441 deeply embedded within specific organisational settings. In the context of Hillview, general concerns
442 around DCD – such as the legalities of withdrawing treatment and proceeding with organ donation –
443 interacted with more concrete practicalities and fears in relation to historical practices and existing
444 institutional culture around organ donation at the Trust. Following Lynch (2013), the ethics of DCD are
445 therefore encountered and constructed as particular sets of problems which cannot be disentangled
446 from the institutional (historical, practical, and political) milieu in which they emerge.

447 Moreover, the data from this case was documented prior to the production of the *Ethical Framework*
448 *for DCD* (2011), and at a time when the legal parameters for the practice had only just been published
449 (DH, 2009 guidelines). As such, staff at Hillview could be considered ‘moral pioneers’ (Rapp, 2000:
450 307), in that they first had to create the conditions to make DCD functionally possible at the Trust, as
451 well as define and work through conceivable predicaments of DCD as they were encountered. As we
452 saw in the case presented, concerns expressed around DCD were novel and often pragmatically
453 orientated around the steps that were necessary to convert a potential DCD donor into reality. Notions
454 of what were potentially at stake in DCD went far beyond the abstracted bioethical principles such as
455 ‘overall benefit’, as laid out in the guidelines, and included understandings of: the potential for DCD
456 to reduce local transplant waiting lists; the reputation of the hospital Trust and their staff, alongside
457 public perceptions of organ donation; the welfare and actions of potential donor families; and changes
458 to the everyday work of health professionals caring for dying patients. In turn, the process of working-
459 through these locally situated concerns around DCD involved animating procedures into acceptable
460 forms of practice for the everyday environments in which DCD would be realised and donor organs

461 materialised. The ethics of DCD are not, therefore, something which can be wholly pre-defined outside
462 of the contexts in which they are implemented. Instead, ethics in DCD need to be also understood in
463 relation to how concerns about the process are organisationally and practically composed and, in turn,
464 are dealt with *in situ*.

465 In documenting the emergent, practically situated ethics of DCD, this paper adds to the growing body
466 of social science research which examines the contexts in which controversies in science and medicine
467 emerge and are managed (e.g. Hoeyer, 2005; Sperling, 2008), and the (co-) productive relationship
468 between ethical norms and their application within medical and scientific settings (e.g. Brosnan et al.,
469 2013; Hoeyer & Tutton, 2005; Smith Doerr & Vardi, 2015). The findings presented here have
470 demonstrated the ways in which ethics are assembled and dealt with as distinct sets of practical-
471 organisational problems, thus highlighting the importance of an institutionally-nuanced analysis for
472 understanding both the composition and management of bioethical controversies, such as that of
473 DCD.

474 Whilst the study did not directly observe the clinical management of potential DCD donors, an analysis
475 of the development of a DCD programme has demonstrated the importance of not making
476 assumptions about the character of ethics in relation to DCD. Indeed, if we are to more fully
477 understand what is at stake in the re-introduction of this original form of organ donation – for health
478 professionals, patients and the public writ large – it is key that we do now turn to the study of DCD in
479 practice, to examine *what* occurs when a potential DCD donor is identified and clinically managed for
480 the purpose of organ donation. Having this type of situated focus on ethics is also of utmost
481 importance given the proliferation of new techniques to increase the scope for obtaining organs from
482 the deceased. Such interventions include: the use of ‘suboptimal’ organs from older donors, who
483 would have previously been considered less than ideal candidates to donate (Callaghan et al., 2014);
484 trials of novel procedures for preserving and resuscitating ‘higher-risk’ donor organs (Hosgood, Saeb-
485 Parsy, Hamed & Nicholson, 2016); and testing protocols for uncontrolled DCD in the UK (Ortega-

486 Deballon, Hornby & Shemie, 2015). It is only through the study of these technologies *in situ* that we
487 will be able to more fully consider and intervene in the issues at play in relation to the seemingly
488 endless array of interventions to obtain organs at the end of life.

489 **Declarations of Interest:** None

490 **References**

491 Academy of Medical Royal Colleges & UK Donation Ethics Committee (2011). *An ethical framework*
492 *for controlled donation after circulatory death*. Retrieved from:

493 [http://www.aomrc.org.uk/doc_view/9425-an-ethical-framework-for-controlled-donation-after-
494 circulatory-death](http://www.aomrc.org.uk/doc_view/9425-an-ethical-framework-for-controlled-donation-after-
494 circulatory-death)

495

496 Arnold, R.M., & Youngner, S.J. (1993). The dead donor rule: Should we stretch it, bend it, or abandon
497 it? *Kennedy Institute of Ethics Journal*, 3, 263-278.

498

499 Bell, D. (2003). Non-heart beating organ donation: Old procurement strategy – new ethical
500 problems. *Journal of Medical Ethics*, 29, 176-181.

501

502 Bell, M.D.D. (2008). Non-heart beating organ donation: in urgent need of intensive care. *British*
503 *Journal of Anaesthesia*, 100, 738-741.

504

505 Bernat, J.L. (2008). The boundaries of organ donation after circulatory death. *The New England*
506 *Journal of Medicine*, 395, 669-671.

507

508 British Transplant Society (2013). *United Kingdom guidelines. Transplantation from donors after*
509 *deceased circulatory death*. Retrieved from

510 <http://www.bts.org.uk/Documents/FINAL%20July%202013%20DCD%20guidelines.pdf>

511

512 Brodwin, P. (2008). The coproduction of moral discourse in U.S. community psychiatry. *Medical*
513 *Anthropology Quarterly*, 22, 127-147.

514

515 Brosnan, C., Cribb, A., Wainwright, S.P., & Williams, C. (2013). Neuroscientists' everyday experiences
516 of ethics: The interplay of regulatory, professional, personal and tangible ethical spheres. *Sociology*
517 *of Health & Illness*, 35, 1135-1148.

518

519 Button, G. (1991). *Ethnomethodology and the human sciences*. Cambridge: Cambridge University
520 Press.

521

522 Callaghan, C.J., Harper, S.J.F., Saeb-Parsy, K., et al. (2014). The discard of deceased donor kidneys in
523 the UK. *Clinical Transplantation*, 28, 345-353.

524

525 Cohen, L. (2002). The other kidney: Biopolitics beyond recognition. In: Scheper-Hughes, N. &
526 Wacquant, L. (eds). *Commodifying Bodies*. London: Sage, 9-29.

527

528 Columb, S. (2017). Excavating the organ trade: An empirical study of organ trading networks in Cairo,
529 Egypt. *British Journal of Criminology*, 27, 1301-1321.

530

531 Cooper, J. (2017). Problematizing the ethics of organ donation after circulatory death in the UK. *Critical*
532 *Public Health*, 27, 499-505.

533

534 Cooper, J., & Kierans, C. (2016). Organ donation, ethnicity and the negotiation of death: ethnographic
535 insights from the UK. *Mortality*, 21, 1-18.

536

537 Corrigan, O. (2003). Empty ethics: The problem with informed consent. *Sociology of Health & Illness*,
538 25, 768-792.
539
540 Das, V. (2000). The practice of organ transplants: Networks, documents, translations. In: Lock, M.,
541 Young, A., & Cambrioso, A. (Eds). *Living and working with the new medical technologies:
542 Intersections of inquiry*. Cambridge: Cambridge University Press, 263-287.
543
544 Department of Health. (2008). *Organs for Transplant*. London: HMSO.
545
546 Department of Health (2009). *Legal issues relevant to non-heartbeating organ donation*. Retrieved
547 from
548 [https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/138313/dh_10986](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/138313/dh_10986_4.pdf)
549 [4.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/138313/dh_10986_4.pdf)
550
551 De Vita, M.A., Snyder, J.V., & Grenvik, A. (1993). History of organ donation by patients with cardiac
552 death. *Kennedy Institute of Ethics Journal*, 3, 113-129.
553
554 Dominguez-Gil, B., Haase-Kromwijk, B., Van Leiden, H.V., et al. (2011). Current Situation of donation
555 after circulatory death in European Countries. *Transplant International*, 24, 676-686.
556
557 Fox, R. (1976). Advanced medical technology – social and ethical implications. *Annual Review of*
558 *Sociology*, 2, 231-268.
559
560 Fox, R. (1993). An ignoble form of cannibalism: reflections on the Pittsburg Protocol for procuring
561 organs from non-heart-beating cadavers. *Kennedy Institute of Ethics Journal*, 3, 231-239.
562

563 Gardiner, D. (2016). How the UK overcame the ethical, legal and professionals challenges in DCD.
564 *QUT Law Rev*, 16, 125-134.
565
566 Gardiner, D., & Riley, B. (2007). Non-heart-beating organ donation – solution or step too far?
567 *Anaesthesia*, 62, 431-433.
568
569 Gardiner, D., & Sparrow, R. (2010). Not dead yet: Controlled non-heart-beating organ donation,
570 consent, and the dead donor rule. *Cam Quart Health Ethics*, 19, 17-26.
571
572 Giacomini, M. (1997). A change of heart and a change of mind? Technology and the redefinition of
573 death in 1968. *Social Science & Medicine*, 44, 1465-1482.
574
575 Hedgecoe, A. (2014). A deviation from standard design? Clinical trials, research ethics committees
576 and the regulatory co-construction of organizational deviance. *Social Studies of Science*, 44, 59-81.
577
578 Heimer, C.A. (2013). ‘Wicked’ ethics: Compliance work and the practice of ethics in HIV research.
579 *Social Science & Medicine*, 98, 371-378.
580
581 Hoeyer, K. (2005). Studying ethics as policy: The naming and framing of moral problems in genetic
582 research. *Current Anthropology*, 46, s71-s90.
583
584 Hoeyer, K.L., & Jensen, A.M.B. (2012). Transgressive ethics: Professional work ethics as a perspective
585 on ‘aggressive organ harvesting’. *Social Studies of Science*, 43, 598-618.
586

587 Hoeyer, K.L., Jensen, A.M.B., & Olejaz, M. (2015). Transplantation as an abstract good: practising
588 deliberate ignorance in deceased organ donation in Denmark. *Sociology of Health & Illness*, 37, 578-
589 593.

590

591 Hoeyer, K.L., & Tutton, R. (2005). 'Ethics was here': Studying the language-games of ethics in the
592 case of UK Biobank. *Critical Public Health*, 15, 385-397.

593

594 Hoffmaster, B. (1992). Can ethnography save the life of medical ethics? *Social Science & Medicine*,
595 35, 1421-1431.

596

597 Hogle, L.F. (1999). *Recovering the nation's body: Cultural memory, medicine and the politics of*
598 *redemption*. New Brunswick, NJ: Rutgers University Press.

599

600 Hogle, L.F. (2009). Pragmatic objectivity and the standardisation of engineered tissues. *Social Studies*
601 *of Science*, 39, 717-742.

602

603 Hosgood, S.A., Saeb-Parsy, K., Hamad, M.O., & Nicholson, M.L. (2016). Successful transplantation of
604 human kidneys deemed untransplantable but resuscitated by ex vivo normothermic machine
605 perfusion. *American Journal of Transplantation*, 16, 3282-3285.

606

607 Jasanoff, S. (2004). The idiom of co-production. In: Jasanoff, S. (Ed.) *States of knowledge*. Routledge:
608 London, 1-12.

609

610 Jensen, A.M.B. (2011) *Orchestrating an exceptional death: Donor family experiences and organ*
611 *donation in Denmark*. PhD Thesis no. 69, Department of Anthropology, Faculty of Social Sciences,
612 University of Copenhagen.

613

614 Jensen, A.M.B. (2017) Guardians of the gift: the emotional challenges of heart and lung transplant
615 professionals in Denmark. *Anthropology & Medicine*, 1, 111-126.

616

617 Kierans, C. (2011). Anthropology, organ transplantation and the immune system: resituating
618 commodity and gift exchange. *Social Science & Medicine*, 73, 1469-1476.

619

620 Kierans, C., & Cooper, J. (2013). The emergence of the 'ethnic donor': the cultural production and
621 relocation of organ donation in the UK. *Anthropology and Medicine*, 20, 221-231.

622

623 Kierans, C., & Cooper, J. (2011). Organ donation, genetics, race and culture: The making of a medical
624 problem. *Anthropology Today*, 27, 21-24.

625

626 Kleinman, A. (1999). Moral experience and ethical reflection: Can ethnography reconcile them? A
627 quandary for "the new bioethics". *Daedalus*, 128, 69-97.

628

629 Lock, M. (2002a). Inventing a new death and making it believable. *Anthropology & Medicine*, 9, 97-
630 115.

631

632 Lock, M. (2002b). *Twice dead: Organ transplants and the reinvention of death*. London: University of
633 California Press.

634

635 Lynch, M. (1993). *Scientific practice and ordinary action. Ethnomethodology and social studies of*
636 *science*. Cambridge: Cambridge University Press.

637

638 Lynch, M. (2001). The epistemology of epistemics. Science and technology studies as an emergent
639 (non)discipline. *American Sociological Association Science, Knowledge and Technology section.*
640 *Newsletter*, Fall, 2-3.

641

642 Lynch, M. (2013). Ontography: Investigating the production of things, deflating ontology. *Social*
643 *Studies of Science*, 43, 444-462.

644

645 NHS Blood and Transplant (2017). *Organ donation and transplantation. Activity Report 2016/17.*
646 Retrieved from: [https://nhsbt.dbe.blob.core.windows.net/umbraco-assets-](https://nhsbt.dbe.blob.core.windows.net/umbraco-assets-corp/4657/activity_report_2016_17.pdf)
647 [corp/4657/activity_report_2016_17.pdf](https://nhsbt.dbe.blob.core.windows.net/umbraco-assets-corp/4657/activity_report_2016_17.pdf)

648

649 Ortega-Deballon, I., Hornby, L., & Shemie, S.D. (2015). Protocols for uncontrolled donation after
650 circulatory death: a systematic review of internal guidelines, practices and transplant outcomes.
651 *Critical Care*, 19, 268.

652

653 Pickersgill, M. (2012). The co-production of science, ethics and emotion. *Science, Technology, &*
654 *Human Values*, 37, 579-603.

655

656 Rapp, R. (1999). *Testing women, testing the fetus: The social impact of amniocentesis in America.*
657 London: Routledge.

658

659 Reissman, C.K. (2008). *Narrative methods for the human sciences.* London: Sage.

660

661 Scheper-Hughes, N. (2000). The global traffic in human organs. *Current Anthropology*, 41, 191-224.

662

663 Sharp, L. (2006) *Strange harvest: Organ transplants, denatured bodies and the transformed self*.
664 University of California Press: London.
665
666 Smith-Doerr, L. & Vardi, I. (2015). Mind the gap: Formal ethics policies and chemical scientists'
667 everyday practices in academia and industry. *Science, Technology, & Human Values*, 40, 176-198.
668
669 Sperling, S. (2008). Converting ethics into reason: German stem cell policy between science and the
670 law. *Science as Culture*, 17, 363-375.
671
672 Timmermans, S., & Berg, M. (2003). *The gold standard: The challenge of evidence-based medicine*
673 *and standardization in health care*. Philadelphia: Temple University Press.
674
675 Yea, S. (2010). Trafficking in part(s): the commercial kidney market in a Manila slum, Philippines.
676 *Global Social Policy*, 10.