University of Huddersfield Repository

Blyth, Eric, Frith, Lucy, Crawshaw, Marilyn and van den Akker, Olga

Searching for ‘relations’ using a DNA linking register by adults conceived following sperm donation

Original Citation

Blyth, Eric, Frith, Lucy, Crawshaw, Marilyn and van den Akker, Olga (2017) Searching for ‘relations’ using a DNA linking register by adults conceived following sperm donation. BioSocieties. ISSN 1745-8552

This version is available at http://eprints.hud.ac.uk/id/eprint/33526/

The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: E.mailbox@hud.ac.uk.

http://eprints.hud.ac.uk/
Searching for ‘relations’ using a DNA linking register by adults conceived following sperm donation


Lucy Frith*, Eric Blyth, Marilyn Crawshaw and Olga van den Akker

a. Department of Health Services Research, University of Liverpool, Block B, The Waterhouse Blds, Brownlow Street, Liverpool L69 3GL, UK. E-mail: frith@liverpool.ac.uk

b. School of Human and Health Sciences, University of Huddersfield, Huddersfield, England, UK.


d. Department of Psychology, Middlesex University, London, UK.

*Corresponding author.

Abstract This paper considers the experiences of adults conceived following sperm donation, who were registered with a voluntary DNA linking register and considers: how awareness of being donor-conceived affected their identity and family relationships; and the process of searching for their donor and donor-conceived siblings. The views and experiences of donor-conceived adults has, until recently, been a relatively neglected research area. This study is the first, to our knowledge, to consider the experiences of donor-conceived adults using a DNA-based register. This paper presents qualitative data from a questionnaire-based study with 65 adults conceived following sperm donation. It examines how ideas of relatedness, kinship and identity are enacted and how narrative certainties are challenged by opening up new conceptions of what it means to be ‘related’. No single story of being donor-conceived emerged – with competing narratives about the effects and implications for respondents’ kinship relationships and sense of identity. The knowledge of being donor-conceived could be both a powerful disrupter and a consolidator of existing family relationships. This study sheds light on how identity and kinship relationships are negotiated and managed by donor-conceived adults, both with their existing family and donor ‘relations’, and how these can change over the life-course.

Keywords: UK DonorLink; kinship; relatedness; donor conception; sperm and gamete donation; identity

Donor conception and anonymity

The use of donor gametes for family building has a long history but its use as a form of medical intervention is more recent (Richards, 2014). Donor insemination was first used in clinical practice in England in the late 1930s and was generally practised in secret (Nachtingall, 1993). Accepted practice, at least until the 1980s, was to safeguard the donor’s identity and to advise prospective parents to keep the donation secret both from their social circle and the child (RCOG, 1987). Gradual questioning of donor anonymity emerged in the 1980s. For example, in 1983, the Sperm Bank of California began recruiting donors who agreed to the release of their identity to offspring when they reached 18 (TSBC, 2017). Parallels were also drawn in the UK with changing adoption legislation in England and Wales that had allowed adopted people to access their birth records since 1976 and where ‘best practice’ increasingly emphasised the importance for adopted people to be able to trace
their biographical roots (Triseliotis et al, 2005). When the Human Fertilisation and Embryology Act 1990 was enacted in the UK, it endorsed the principle of donor anonymity, but made provisions that unspecified non-identifying donor information could be released to donor-conceived offspring once they were 18. However, donor anonymity continued to be questioned, culminating in its removal in 2005 (Frith, 2015), thus allowing donor-conceived adults who know that they are donor-conceived to find out their donor’s identity. Furthermore, a 2008 revision of the 1990 Act included a provision that parents should be encouraged to tell their donor-conceived child from an early age about their donor conception.

Searching for ‘relations’

Prior to the 1990 Act, there was no UK central register of information on fertility treatment cycles (those treated, the resultant children or donor information) and no statutory requirement on service providers to retain – or later release – any records that they had kept. Thus, there is limited information available for donor-conceived adults born before the 1990 Act about anyone to whom they are genetically related as a result of donor conception. One way of tracing these ‘relatives’ is through DNA testing (Blyth, 2012). UK DonorLink (UKDL), founded in 2004 and funded by the UK government, was the world’s first DNA-based voluntary contact register. Donors and donor-conceived adults registering with UKDL could submit a DNA sample to try and identify a potential link to another registrant. DNA testing only provides levels of probability of genetic relationships and tests are more reliable for donor-to-offspring links than those between donor-conceived siblings (see Crawshaw et al, 2013). While this emerging science of DNA testing cannot provide absolute certainty, it is one option for searching for those without access to other information sources. In results from this study, reported elsewhere, we found that the desire to find genetic relatives appeared greater than any perceived downsides to the use of DNA, indicating that “hope overrides caution” (Crawshaw et al, 2016, p. 17).

There has been relatively little research on the views and experiences of those who are donor-conceived (Hertz et al, 2013, for a review see Blyth et al, 2012). This paper adds to this small but growing area of research and is part of a wider study on searching that included donors (see van den Akker et al, 2015; Crawshaw et al, 2016; Blyth et al, 2017). We found that both donor-conceived adults, who had been linked and those who had not, viewed their search positively and, although some concerns about the searching process were mentioned, these did not prove to be a barrier to searching (van den Akker et al, 2015). A number of other studies have been conducted with donor-conceived individuals searching for their donor-conceived siblings and donor (see Freeman et al, 2014), but none to our knowledge have examined the experiences of those searching through a DNA-based register. Studies have reported donor-conceived individuals’ interest in donor-conceived siblings (Scheib et al, 2005; Mahlstedt et al, 2010; Rodino et al, 2011). Kirkman (Kirkman, 2004) recounted the experiences of a single participant who had located an undisclosed number of donor-conceived siblings. Jadva et al (2010) surveyed 165 donor-conceived children and adults aged from 13 from the US-based donor sibling register (DSR), a world-wide, nonprofit organisation founded in 2000 with more than 52,400 registrants, the world’s largest voluntary register. The DSR provides an online database where links can be made between people.

---

1 UK DonorLink ceased to operate in 2013 and its functions were transferred to the Donor Conceived Register (http://donorconceivedregister.org.uk/).
conceived by the same donor and, in some circumstances their donors. Links are made by donor number, clinic information and message boards. Forty-two of Jadva et al’s participants had located donor-conceived siblings and 40 had made contact. Blyth (2012) investigated eight adults conceived from a single donor who had discovered the identity of their donor and each other’s existence and their contact experiences. Finally, Cushing (2010), Jadva et al (2010) and Beeson et al (2011) considered the impact of searching for donors and/or donor-conceived siblings on participants’ relationships with their parents. Some negative experiences of donor-conceived individuals’ contact – or attempted contact – with donors and donor-conceived siblings has been reported (Turner and Coyle, 2000; Beeson et al, 2011). For example, Cushing (2010) noted the frustrations experienced by some who had unsuccessfully tried to locate their donor-conceived siblings and donor. However, most studies have reported largely positive outcomes (Jadva et al, 2010; Beeson et al, 2011; Blyth, 2012; Daniels et al, 2012).

Theoretical framing

Recently, there has been increased attention in sociology to theories of kinship as a useful lens through which to explore family relations, relatedness and connections (Mason, 2008; Kramer, 2011; Nordqvist, 2014). The study of reproductive technologies is productive for kinship studies “because of its curious, paradoxical, domain-crossing nature” (McKinnon, 2015, p. 464). Carsten notes that many of the studies on reproductive technologies have concentrated on those undergoing treatment “rather than what happens to kin relations outside these contexts or once treatment is over” (2004, p. 174). Searches for donor-conceived siblings and donors take place outside the clinic and therefore away from the normative framework in which fertility treatment is conducted and enable donor-conceived individuals to create their own sense of family – one that can change over the life-course. This study contributes to this body of literature.

Donor conception both challenges and reinforces the importance of biogenetic relatedness. People want a ‘child of their own’ and this leads them to explore the option of using a donor. By using donor conception, the child is not theirs in a strictly biological sense – (s)he may not be genetically related to the future parents – but the child is theirs in the sense they have taken steps to instigate her/his existence, they ‘intend’ to parent (McKinnon, 2015). Thus, as Strathern (1992) notes, reproductive technologies create a new convention: a distinction between social and biological parenting that does not straightforwardly supersede the importance of biological links but instead displaces them to another domain. Hargreaves sees reproductive technologies as destabilising the analytical opposition between biological and social kinship (2006, p. 262) and argues that the parents of donor-conceived children in her study worked hard to construct kin connections by blurring the boundaries between nature and culture. As Carsten says, the “boundaries of what is constituted by biology or kinship are not set in stone, but may shift and merge in relation to one another” (2004, p. 188).

New technologies, such as DNA testing, have created a new route for searching, supplementing previous almost-complete reliance on documentary records to trace relatives. While this holds the potential for creating and recreating notions of relatedness and kinship, the inherent uncertainty of DNA testing also means that even ‘scientific tests’ cannot ‘prove’ who is one’s kin. These technologies nevertheless shape anthropological and sociological understandings of what it means to be biogenetically related (Klotz, 2016). Kinship is always selective and in this study respondents’ experiences of using the database enabled a particular form of kinship selection, and our data shed light on how this is accomplished.
Central to theories of kinship is how identity is constructed. As Lawler argues, “identity itself is a social and collective process and not, as Western traditions would have it, a unique and individual possession” (2014, p. 2). One of these key collective processes is kinship: “For its development of personhood a child needs to be fixed in relation with others and through its relatedness to them to society at large” (Howell, 2003, p. 466).

Drawing on Erben, Lawler suggests that the contradiction between individualism and collectivism in Western culture is negotiated through kinship constructions (Lawler, 2014). Kinship plays a role in both how we construct ourselves as individuals and how we exist in commonality and is therefore of central importance for identity formation (Lawler, 2014; Carsten, 2004). Interestingly, the quantitative data from our wider study found that collective identity orientation (of belonging and family) was lower in donor-conceived respondents than the donor respondents (van den Akker et al, 2015). This prompted the question of whether the qualitative data could shed light on the underlying meaning of being donor-conceived and how it might affect identity, and these issues are addressed in this paper.

Our analysis also draws on sociological conceptions of the family and relationships. There is a perception that the modern family is changing: how we define ‘family’ and what it means to be in a family, or have a family are areas subject to intensive discussion (see van den Akker, 2006; May, 2011). Smart (2007) has argued for a concept of ‘personal life’ that can encompass different forms of relationships. We will draw on Morgan’s work (1996) that sees the family as something people ‘do’ – with families constituted by their customs and practices, rather than structural elements of relationships, marriage and household formation – to explore these ‘new’ families created by donor conception. The family is seen as a fluid notion that can change over the life-course, geographical locations and different spaces. Donor conception creates familiar and new family forms, unbounded and potential new kinship relations and introduces fluidity into family boundaries – both in terms of who is ‘family’ and how this changes over time.

The study

Methods

This paper reports on the qualitative data relating to identity, kinship and searching gathered from donor-conceived adults as part of a wider study of donor-conceived adults and gamete donors searching for genetic ‘relatives’ through a DNA-based registry. The questionnaire survey used Bristol Online Survey software, and paper copies for those who requested them, and included both quantitative structured questions and qualitative unstructured open-ended responses. Respondents were provided with an information sheet and informed that their consent was implied by completion of the questionnaire. UKDL Head Office agreed to send an invitation to participate in the study to all registrants. The survey was open from mid-October 2012 to mid-January 2013. Ethical approval was obtained from Middlesex University and approval recognised by the Universities of Liverpool and Huddersfield. Of the 172 donor-conceived adults registered with UKDL, 65 (37.8%) completed the questionnaires (four by hard copy). The mean age in years for respondents was 35.68, median age 43, range 21–65. The majority were female (50, 76.9%) and 14 (21.5%) were male – one respondent did not indicate their gender. This reflects the gender balance of UKDL registrants: 127 women and 47 men. One respondent was Asian and the rest were Caucasian (full demographic and study information is reported in van den Akker et al (2015). All respondents were conceived with the use of donor sperm, under conditions of anonymity and
born before August 1991 (when the Act 1990 was implemented and a statutory central register of information established). All respondents had chosen to search for their biogenetic relatives and did so through the highly uncertain route of DNA linking and, therefore, constitute a particular group of donor-conceived people. This paper gives an account of being donor-conceived in these circumstances and the results must be read in this context, recognising the specificities of this group.

Data analysis

Some data reported here are responses to specific survey questions; others are themes that emerged from qualitative data gathered from free-text responses at the end of each section of the questionnaire. These allowed respondents to clarify and elaborate on replies as well as introduce areas ‘outside’ the specific questions asked. There are limitations to collecting qualitative data via surveys: it is not possible to probe responses or clarify understanding of the issues and questions; contextual data (voice tone, emotion and body language) are not captured. However, surveys facilitate more data coverage and this study received a larger number of respondents and with a greater geographical spread than would have been possible with face-to-face interviews.

The quotes in this paper are followed by the respondent number and gender, i.e. R8F. While spelling has been corrected, language and grammar have been left in their original form.

Following Strathern (2005), we will use the term ‘biogenetic’ to mean the genetic/biological relation, ‘father’ to mean the non-donor father and donor-conceived sibling to mean those conceived from the same donor, recognising that terminology in this area is never unproblematic and comes loaded with certain meanings (Freeman et al, 2014).

A thematic analysis was undertaken; transcripts were coded for concepts and the relationship between concepts explored using the constant comparative method (Silverman, 2006). The transcripts were read and coded using Atlas.ti software. The emergent themes and consequent analysis of the data were discussed between team members to reach agreement and explore different interpretations and linkages. There were two central themes in our data – how the knowledge of donor conception affected the way respondent made sense of their lives – meaning-making – and, related to this, how it affected their sense of identity. To explore these two themes, we will draw on Bottero’s work on identity-work, and develop the concepts of epistemological and ontological work to structure our analysis. Bottero (2013) examines the process of genealogical searching for relatives as a form of ‘identity-work’, and how this searching impacts on individual’s sense of identity, “(re)establishing connections with ancestors as people, and of the transformation of prior understandings of belonging and connection” (2013, p. 14). As Bottero notes, identity is an “over-extended concept” – all elements of life contribute to forming or influencing our identity. To address this, she breaks the concept of ‘identity’ into “less congested terms”, namely processes of “self-understanding”, “identification and categorization” and “commonality and connectedness” (2013, p. 3). These elements of Bottero’s identity-work were present in our data, and we have categorised them into two main kinds of work” – epistemological and ontological. Epistemological work, draws on notions of ‘self-understanding’, and describes how knowledge (in this case knowledge of donor conception) can be used and understood, often as an explanatory tool, to explain and understand the functioning of particular relationships (for example, why certain relationships do not work). Ontological work, taking up the themes of ‘identification and categorization’ and ‘commonality and connectedness’, is concerned with how becoming aware of being donor-conceived affects identity, how individuals
understand themselves in light of this information, and how they construct new identities, question old ones, or reinforce existing ones. The two forms of ‘work’ are closely interlinked. Epistemological work – meaning-making – is often a precursor to ontological work and the meanings given to the knowledge that they are donor-conceived affects how identity is constructed.

**Results**

Most respondents discovered they were donor-conceived after the age of 11 (see Table 1). Of the twenty-three donor-conceived adults with a link, six were linked to their donor and eighteen had been linked with between one and fourteen donor-conceived siblings^2^.

**Table 1: Age of finding out**

<table>
<thead>
<tr>
<th>Ages at which donor-conceived adults were told of their donor conception</th>
<th>Yes</th>
<th>No</th>
<th>A little</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–10 years N = 10</td>
<td>3 (30%)</td>
<td>4 (40%)</td>
<td>1 (10%)</td>
<td>2 (20%)</td>
</tr>
<tr>
<td>11–20 years N = 24</td>
<td>18 (75%)</td>
<td>0</td>
<td>6 (25%)</td>
<td>0</td>
</tr>
<tr>
<td>21–30 years N = 22</td>
<td>17 (77%)</td>
<td>1 (5%)</td>
<td>4 (18%)</td>
<td>0</td>
</tr>
<tr>
<td>31+ years N = 9</td>
<td>8 (89%)</td>
<td>0</td>
<td>1 (11%)</td>
<td>0</td>
</tr>
<tr>
<td>Total for all age groups N = 65</td>
<td>46 (71%)</td>
<td>5 (8%)</td>
<td>12 (18%)</td>
<td>2 (3%)</td>
</tr>
</tbody>
</table>

**Donor conception and identity**

One of the key aims of the study was to locate the respondents’ experiences of searching for ‘relatives’ within the context of their wider feelings and perspectives on being donor-conceived. Hence, respondents were asked if they were affected^3^ when they learned that they were donor-conceived. The vast majority indicated that they were. Two respondents answered “not applicable” – R14F, who had been told when she was three and R73F, who knew as early as she could remember. Although some other respondents had ‘always known’, that is known from a very early age, they nevertheless reported it having an effect. Proportionately more of those who became aware before the age of 11 reported no effect than in older age groups (see Table 2)^4^.

**Table 2: Effects of awareness**

One common theme was that awareness of being donor-conceived helped respondents make sense of their life, it had an explanatory power, and we have categorised this as a form of ‘epistemological work’. Respondents’ knowledge of being donor-conceived brought together

---

^2^ This adds up to 24 as one respondent was linked to both donor-conceived siblings and donor.

^3^ Being affected does not necessarily mean affected negatively – the quotes explain in more detail how respondents talked about any effects of finding out they were donor-conceived.

^4^ Although it must be noted that numbers in each age category of finding out are small. Further, the study was not designed to establish any causal connections between age of finding out and attitudes to it.
elements of their biographies and sense of self that, for some, had previously been disjointed, enabling a more coherent narrative to be formed. These narratives allowed forms of ontological work to take place, so that they re-thought and reappraised their identity, to fit into this new narrative. The following quotes illustrate how the discovery of being donor-conceived was both important for respondents meaning-making (epistemological work) – How they explained the biographical narrative of their lives and their sense of self (ontological work) and how central this knowledge was to identity formation.

It made sense of my life so far. I was aware that things had not always made sense before I was told. So decisions my parents had made became understandable. It hugely impacted my sense of my own identity and my feelings of self-worth. R17F (told when 21)\(^5\)

Personally I feel that this explained huge parts of my life which seemed somehow wrong but I had no idea why. The sense of relief of finally having an answer to questions I hadn’t vocalised was very welcome… a huge adjustment in my personal feeling of identity, overall positive. R12M (told when 36)

For some respondents, although they reported shock at finding out, they also felt it made sense in terms of perceived differences between them and their parents. The knowledge enabled them to make sense of and more fully understand their family – this epistemological work explained their perceptions of differences between them and their family.

I was shocked and relieved in the first moment of finding out. The shock made me extremely emotional and I cried a lot. I also felt relief in knowing that I was not imagining things when I felt as though I were different from my parents. R39F (found out when 17)

Initially shocked, but I knew my parents had problems conceiving so wasn’t too great a leap. Now I find it really interesting and it fills in a few gaps (e.g differences to Dad’s side of the family). R36F (told when 28)

To others, the knowledge they were donor-conceived came as a complete surprise and did not fit any previous sense of biography and therefore challenged their sense of identity.

It rocked my foundation, it was completely unbelievable. Couldn’t believe how naive I’d been for so long. Suddenly I have a void were I used to have a family history and relatives. I don’t know who my dad is, who I am when I look in the mirror, where my son got his cleft chin from. R47F (found out when 40)

For this and other respondents, this led to an awareness of a missing piece of their self that had profound effects on their sense of identity. This was conceptualised as a gap in their sense of kinship narratives and of what made them who they were – requiring ontological work to make sense of this new knowledge.

\(^5\) To contextualise the quotes in this section we have added the age at which respondents learned they were donor-conceived.
Have found it very hard to come to terms with. It’s like a whole half of who I am and my history is just missing. R33F (told when 6)

I was shocked and surprised. The knowledge presented a whole new way of viewing myself in terms of identity, now having to incorporate the fact that one half of my genetic background was unknown to me. I was intensely curious about my donor father. R76F (told when 13)

This illustrates the connection between identity and kinship, an intense sense of identity loss could result, for some, from perceptions of a new kinship ‘map’ following disclosure. Yngvesson & Mahoney (2000) discuss how there is a “subjectively experienced desire for rootedness, [and a] pull to identify oneself as exclusively one thing or another” (2000, p. 78). This can have a profound effect, when an existing identity narrative is replaced with another, possibly competing, one. Here, another kinship identity is embodied in a donor father and an unspecified number of donor-conceived siblings and this ‘new’ basis for identity is unknown – they are no longer ‘one thing or another’. This creates the need for epistemological work to make sense of this new knowledge and then ontological work to construct and assimilate it into their sense of identity.

Some respondents reported how they had been able to fit this knowledge into their sense of self and biographical narratives.

It gave me a better sense of myself. I felt more grounded and it pleased me to know. R45M (told when 18)

I would say it took me about three years to come to terms with this news and sometimes I felt overwhelmed with grief and disconnectedness at knowing that I would never know who my donor was and I think this is what led me to join UKDL. I have now reached a stage in my life where I feel that ‘I am what I am’ and I do not have an overwhelming desire to know who my donor is, nor do I feel like ‘half a person’. R39F (found out when 17)

Here there was less need to do ‘active’ meaning-making – epistemological work – as the meaning was already established. In doing so, they were more likely to focus on ontological work alone, on the process of enabling them to feel more secure in their sense of identity. As Lawler notes in her study of mothers and daughters (who were biologically related), it is a choice which parts of kinship are embraced and constitute identity and which are not: “This is active identity work in the context of kinship” (Lawler, 2014, p. 52). For many of our respondents, it was active ontological work, that involved assimilating this new information into their sense of identity, and part of that ‘work’ was joining the UKDL and searching for relations.

Constructions of relatedness

How respondents saw relatedness and the origin of kinship bonds, biogenetic or social relationships or a combination of these, was a key theme in the data. This study gives insights into some of the many ways connectedness carries meaning through respondents’ epistemological work. By being aware they were donor-conceived, connectedness could be brought into existence (with donor relatives), reinforced with existing family or even
removed from existence if there had been previous poor relationships and/or feelings of not belonging. As only just over a third of respondents were linked (23 (35%)), the majority of reflections on the effect of being donor-conceived had on feelings of connectedness and constructions of kinship were about existing family (mother, father and the wider kinship networks on both sides) rather than ‘new’ relations. Respondents were asked how the knowledge that they were donor-conceived affected their relationships with their parents and their extended family (see Table 3).

Table 3: Awareness and family relationships

<table>
<thead>
<tr>
<th>Did this awareness affect your relationship with: (n = 65)</th>
<th>Parents</th>
<th>Extended family</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>30 (46%)</td>
<td>10 (15%)</td>
</tr>
<tr>
<td>A little</td>
<td>16 (25%)</td>
<td>15 (23%)</td>
</tr>
<tr>
<td>No</td>
<td>18 (28%)</td>
<td>25 (38%)</td>
</tr>
<tr>
<td>Did not answer</td>
<td>1 (3%)</td>
<td>1 (3%)</td>
</tr>
<tr>
<td>Not applicable</td>
<td></td>
<td>14 (22%)</td>
</tr>
</tbody>
</table>

Respondents were asked how the knowledge that they were donor-conceived affected their relationships with their parents and their extended family (see Table 3). Although the discovery of donor conception was a significant event that could not be taken lightly, responses to this question were nearly evenly split between those who felt it had affected (46%) and those who said it had little or no effect on their relationships with parents or extended family (53%). The following quote illustrates how relationships can be both reaffirmed and yet affected by the knowledge of being donor-conceived and the act of searching.

The whole thing has been hard on my dad. He has been good to me but I am aware that he never really wanted to raise a donor-conceived child. He agreed because my mum wanted so badly to have a baby. He is adopted and never tried to trace his biological parents. I think it has hurt him that I wanted to be on the donor-link register and was curious about my genetic background. He doesn’t fully understand that its importance to me has nothing to do with my feelings towards him and doesn’t mean I don’t still think of him as my dad. R26F

For this respondent it is the act of parenting – the “doing of family” in Morgan’s (1996) sense – that is the most important element of creating kinship. Knowledge of the lack of biogenetic links has no impact on who she considers to be her dad and here there is no need for epistemological work to create new meanings. The bonds of kinship remained intact for some respondents after finding out they were donor-conceived. R77F explicitly points to the ‘social connections’ within her family which are foregrounded in terms of kinship ties.

The knowledge affected my relationship with my brother with whom I had been brought up in that we both shared this new knowledge. It did not mean that we were any less close, and we have remained close throughout our lives. My relationship with other aunts, cousins and so on has never changed, even though they know that we are not biologically related. We share the social connections of our family and that has held fast. R77F
Others felt that when the knowledge came late – in the case of R27F who had been told by her mother at the age of 50 – there was no opportunity to reiterate connectedness.

I was totally stunned and very unhappy as I had had a fantastic relationship with my father and was proud to be his daughter. I think the worst part was the fact that, because he had died before I was told, I couldn’t talk to him about it and tell him it was ok. R27F

Some respondents felt that this knowledge had had a profound impact on how they perceived their family relationships, especially with their father. This was a form of epistemological work; it provided an explanatory framework for an unsatisfactory relationship with their father, even leading, in some cases, to an ‘unkinning’ of their father – no longer viewing him as their father.

Only with my “dad” who was in fact not my father. R24 M

It explained a lot, as my father I believed to be mine wasn’t and I built a stronger relationship with my mum. R41M

I do not speak to my father since I was 13 he wasn’t around much when I was a child, so I don’t feel any ties to him since we are not blood related. My mother and I have a very good and close relationship. R19F

In some ways, it made perfect sense. My father and I never had a bond really, he wasn’t terribly interested in me, which affected me very badly as a child. I couldn’t understand it. He was unfaithful to my mother continuously throughout their marriage and was almost quite blatant about this. This has affected my relationships as an adult. In some ways I got some closure from learning the truth because I could finally see that we didn’t have a bond for a reason and not because of something I had done wrong. R42F

Father occasionally showed signs of discomfort or would hint at things implying he felt I was more ‘foreign’ to him. (He did not know that I knew). R25M

In these respondents’ narratives, the lack of a biogenetic tie with the father is seen as negating the kinship relationship. One respondent felt that the poor relationship with her father was not her ‘fault’ but the ‘fault’ of the lack of blood ties. Here, biogenetic kinship is foregrounded (Strathern, 2005) and the knowledge that they were donor-conceived used as an explanatory tool – the reason her relationship with her father has not worked and the absence of a bond. The work that this form of biogenetic kinship is doing here is to construct an implicit assumption of a bond. The lack of a biogenetic connection is thus seen as the causal explanation for the lack of a meaningful bond. This is epistemological rather than ontological, identity-work (though the latter may follow as a consequence), as the knowledge is used as an explanatory tool for why the relationship is not present or not working. As one respondent said,

I am angry that the man my mother was married to at the time (my ‘Father’) used the knowledge that he wasn’t biologically connected to me, to walk away and leave when I was 10. (R9F – our emphasis).
This knowledge is used, brought into play, to explain why her father could leave her. A similar form of kinship disruption occurred, in some cases, with the respondents’ extended family. Some portrayed this lack of connection as a feeling on their part.

None of my family had been told that I was donor conceived. It made me feel distanced from my father’s family as I wasn’t sure if they would still think of me in the same way if they knew that we weren’t genetically related. It was reassurance from them that I needed, as I still wanted them to be my family. R29F

Although her father’s family did not know she was donor-conceived, she felt that this lack of ‘genetic’ connection could be problematic and that they might cease to see her as ‘kin’ if they knew.

R56F reported that her relationship with her mother’s extended family was ‘disrupted’, regardless of her biogenetic relationship to them.

Did not affect relationship with close family members (mother, brother, aunt, cousins, grandmother), but some extended family (great aunt and their family) told my mother that they did not consider me ‘biologically part of the family’ because of the way I was born. This was despite being born from my mother’s egg and donor sperm so just as much a part of the family biologically as any other member! However I wouldn’t say that it had a negative effect on me (it upset my mother more than myself). R56F

Here, donor conception does not problematise the biogenetic relationship; rather, it creates aspects of identity that are not seen as ‘fitting’ in with previous kinship narratives of how the child was brought into being, i.e. a baby created by two people in a loving relationship through sexual intercourse (Yngvesson and Mahony 2000). This is a challenge to previous conceptions of identity and requires a rethinking – ontological work – to make sense of this and a concern that others will view them differently. This point is further illustrated by the following respondents.

The “Paternal” side of the family now no longer accept me as part of their family since learning of my being donor conceived 3 years ago based on their religious beliefs. R9F

The extended family on my mother’s side have very little to do with us now. R30F

Respondents often reported that their relationships with the mother were most affected. This was not due to what might be seen as biogenetic dissonance (since all respondents were biologically related to their mother) but instead to difficulties with the culture of secrecy around their conception. Due to this secrecy, they were not given the opportunity to openly discuss it and do the necessary epistemological work with their mothers to enable them to make sense of this knowledge.

I still call my dad “dad” but as we don’t have that much of a close relationship anyway, it didn’t affect our relationship. I think the real change was with my mum who initially flat-out refused to talk to me about anything to do with it. When I went to a UKDL meeting, she got very upset and angry and said that it was nothing to do with me and that it had happened to her, so didn’t understand why I needed to go.
Things are a little better now but it’s not something she feels entirely comfortable talking about, which is difficult for me. R28F

Although these maternal relationships are reported as being problematic, there is no talk of kinship disruption (as there was with the fathers). Their mother is still their mother; it is just a complicated relationship and such complications often characterise family bonds of any stripe.

Searching

The two previous sections have illustrated the impact of the knowledge of being donor-conceived on respondents’ sense of identity and their kinship relationships and how forms of epistemological and ontological work are used to make sense of and construct new identities. How this work is actualised, what is consists of, is the active searching for donor-conceived relatives. Through searching they could find out more about their biographical narratives (epistemological work) and get a greater sense of themselves (ontological work), by possibly creating new relationships and families. These reasons for searching mirror those expressed by adopted adults searching for their birth parents: either ‘identity completion’ or seeking ‘new relationships’ (Crawshaw, 2002).

It is a fundamental quest to find family and get to know them and feel a part of a new family and be accepted by them. This is not a minor or trivial thing. R17F

To find medical history and try and fill the void left by losing half of my heritage. R47F

Finding something out about my heritage would change my life forever… I knew that if there was some information about me, that even if I didn’t follow it up, I would always know about that relative being out there somewhere, I couldn’t ‘un-know’ it. Was in two minds about whether it would be a benefit or a burden. R42F

Parallels may also be drawn here with work on those who are researching their family history. Kramer argues that genealogical research has three functions in personal life. It maps connectedness through blood (although not straightforwardly); it is used as a resource for identity-work and allows belonging in time and connectedness historically but also, “belonging in new, or newly reconfigured places of significance” (Kramer, 2011, p. 392). All these elements were present in our data and often with an increased emotional intensity as, rather than trying to find information about long dead ancestors or dispersed extended family, our respondents were searching for more immediate family.

Some respondents saw the connection with donor relatives as essential to completing not only a part of themselves but also their own children, and thus in a sense ontological work travels down generations.

I am very glad I started the search as I now understand myself a lot better and I feel my four daughters have also gained a great deal from finding members of their biological grandfather’s family. R27F
Most of the links made were with donor-conceived siblings, with only six linked with their donors. Such linkages often resulted in new connections and kinship relationships being developed.

I have found the search and discovery of the identity of my donor father as well as halfsiblings has been extremely significant for me. I consider myself incredibly fortunate to have enriched my life by getting to know these important “new” family members in my middle age and have happily embraced them in my life circle. R77F

The search was exciting, the unveiling of new sibs exhilarating. I am so grateful UKDL exists. I love my adopted sister but we both know we would never be more than casual acquaintances if we met through work for example. My donor sibs may not look like me, but they feel like me - we seem to think and laugh alike and it is wonderful to feel that sense of belonging. R55F

Here ‘ontological work’ is displayed (Finch, 2007). The sense of belonging and increased self-understanding all show how these kinship relationships create a new sense of identity for some respondents.

Discourses of resemblance and similarity pervade this idea of biogenetic relations, as Schneider notes: “aspects like temperament, build, physigonomy and habits are noted as signs of this shared biological makeup, this special identity of relatives together” (1968, p. 25). Several respondents remarked on the existence of such similarities.

The similarities in personalities and interests we have noticed are uncanny! R17F

I have been amazed by how many similarities there are. R65

However, respondents engaged in kinning-work with varying degrees of success.

It can be a very emotional experience, being linked with half siblings. There is not always a connection, though when there is it’s wonderful. R1F

One issue was the large numbers of donor-conceived siblings that sometimes emerged and the associated difficulty of forming close relationships across such a large group.

One of my last sisters, who turned up nearly three years ago, has become a good friend and we talk regularly on the phone and I have two other sisters who I also met through UKDL who I have frequent and very friendly contact with. There are an awful lot of us and I am in close contact with five of them and sporadic with two others, with occasional contact with most of the others. Some don’t want contact with any of us. R1F

However difficulties were not exclusively related to numbers. One respondent had experienced particular problems with her donor-conceived sibling.

My relationship with my half-brother started out very positively, but became very intense very quickly (we were talking on the phone for hours, texting and e-mailing each other most days, etc.) and then things started to go wrong…. At the time this seemed fine but with hindsight I don’t think it was wise. The relationship then became
very problematic, with issues of jealousy, possessiveness and neediness… I don’t know what will happen in the future but at the current time I don’t see myself staying in contact with him….I may have had problems with my half-brother, but he is my kin and I’m glad I met him. He does look like me physically and it was great to meet somebody who looks like me and is like me in temperament in many ways. I have learned things about myself through meeting him. Meeting him hasn’t put me off looking for other relatives, I would just be more careful next time. R20F

There is recognition that despite these similarities (he looks like me, is similar in temperament) the kinship bond may not be enacted through the development or maintenance of any meaningful social relationship. Here biogenetic kinship becomes more fluid and more a ‘family of choice’ (Weston, 1991). A close social bond is not presupposed by a biogenetic link and how these relationships are negotiated in practice depends on the individuals involved.

Discussion

This paper examined the experiences of donor-conceived adults who were registered with UKDL, focussing on the impact that being donor-conceived (and finding out) had on their sense of identity, their family relationships and their experiences of searching for donor relations. There are limitations to our sample. As well as using only survey-gathered data, it cannot be seen as representative of all donor-conceived people: all respondents were already aware of their donor-conception origins, prepared to search for ‘relatives’ and had chosen to do this through a DNA-based register with the attached uncertainties of this route. Further, respondents were largely women, reflecting the larger number of women registered with UKDL and gendered participation rates in research involving donor-conceived people more generally (Culley et al, 2013).

We developed the concepts of epistemological and ontological work to distinguish between the effects that knowledge of donor conception had on meaning-making and identity. Epistemological work explained how such knowledge was used as an explanatory tool, for example, why certain relationships did not work. Ontological work followed on from becoming aware they were donor-conceived, how this affected their identity, and what was needed to be done to form a new or different identity. These two types of ‘work’ were related but distinct; the knowledge that one was donor-conceived did not always significantly impact on identity. The importance and balance between epistemological and ontological ‘work’ varied between respondents. There was no single story of being donor-conceived nor of the effects this had on identity and/or kinship relationships – the meanings were not uniform. There were competing ways of creating narratives and this knowledge could both create and fill a void in senses of identity. This is not the first study on donor-conceived adults searching for relatives, but the first to examine those searching through a DNA-based register. There are similarities in findings from other studies, notably with those using the DSR. The corroboration of previous findings is valuable, as it builds up more in-depth and nuanced knowledge of the area. As Nordqvist notes, “we need to be sensitive to the multitude and shifting ways in which connectedness is known, and how it can be brought into existence and carry meaning in everyday life” (2014, p. 269). This study contributes to our knowledge of the many ways connectedness is enacted and begins to build a fuller picture of the wider psycho-social implications of forming a family through gamete donation.
In this study, the majority of reflections on feelings of connectedness and constructions of kinship were about existing family (mother, father and the wider kinship networks on both sides) rather than ‘new’ donor relations. This provides an important perspective, as considerations of the effects of being told or finding out about being donor-conceived have often focussed on how the person sees their donor and donor-conceived siblings and the construction of these ‘new’ kinship relations. Data from this study contribute to the empirical research into how existing family relationships are affected (see Freeman et al, 2014), and how this knowledge can be seen as a powerful disrupter as well as consolidator of existing family relationships.

Finding links was generally experienced as positive; searching could be emotionally challenging; and relationships with existing families could be affected. The use of a DNA linking service presents unique challenges; respondents were prepared to use the service even when potential linkages would only carry a level of probability that there was genetic relatedness and not certainty. It is of note that these uncertainties with the knowledge produced by DNA testing did not come through strongly in the qualitative data. Indeed when considering those who had been ‘linked’, there was nothing to suggest that uncertainty of genetic relatedness played a role; rather there appeared to be an assumption that this was ‘certain’ knowledge.

Our data demonstrated the complexity of the relationship between the age at which respondents became aware of being donor-conceived and its impact on them. Although previous studies have found that the younger the age of finding out the less ‘disruptive’ the effects appeared to be (see Hertz et al, 2013), in this study, some of those told during childhood still found it hard to come to terms with this knowledge. This could be a challenge to the over-simplistic idea that knowing about donor conception at a relatively young age renders it unproblematic. Such difficulties may reflect the extent to which parents were comfortable about their use of donor conception. Berger and Paul (2008) found that even in some families where there had been disclosure, the use of donor conception remained a difficult issue, one that was never talked about and where the children were told not to tell others. This can be seen as an example of the distinction that Gillis (1996) makes between actual families (the family we live with) and the idealised family of our imagination (the family we live by). Not actively acknowledging donor conception can be used to construct or maintain this ‘idealised’ family and to paper over aspects that do not fit within it, such as conceiving children via donor conception rather than ‘naturally’. Hence, there appears to be a need to ‘do’ family in a certain way and perform biological kinship. As will be noted later, some families may need support to manage this form of family construction.

In terms of relationships with their fathers, respondents often used the new knowledge of being donor-conceived to rationalise pre-existing poor relationships. It is beyond the scope of this study to determine why these relationships were poor and the part played in that by donor conception (including disclosure) rather than, or in combination with, other factors. However, some respondents believed that these poor relationships resulted from their father not being their biological or ‘real’ father.

A key theme in debates over kinship in reproductive technologies is the place of the biogenetic relationship and how it is ‘choreographed’ (Thompson, 2005), that is how something is reassembled to bring into existence new kinds of relationships (for example how our respondents ‘created’ new kin by the process of searching). Levine argues that kinship models created by non-traditional families use both conventional and radical ideas to
reference biogenetic connections. Searching for donor relatives represents for Levine, “the persisting cultural emphasis on biogenetic connection in Euro-American and other societies, as providing a basis for common identity, as conferring irrevocable kinship” (Levine, 2008, p. 385). Our data did not suggest this to be straightforwardly the case. Although the existence of biogenetic relationships was the basis for kinning-work in some cases and the lack of such ties could be problematic, particularly in constructions of fatherhood, in others non-biogenetic relationships were still privileged and the existence of biogenetic ties did not automatically form the basis for socially enacted kinship.

There is a body of literature on the work that parents do to create kinship bonds with donor-conceived and adopted children (Hargreaves, 2006; Nordqvist, 2014; Howell, 2003). As Kramer has noted, certain kin can be rejected if “the connectedness might be problematic” (2011, p. 391) and the mechanism of reproduction can also lead to ‘dekinning’ (Edwards, 2014). Edwards uses this term, drawing on the work of Howell, to show how the kinning process is not always about creating kin but also removing kin. Howell examines how adopted people are kinned by their adoptive parents which requires kinship to be ‘de-biologizing’ (Howell, 2003) and hence requires them to be ‘de-kinned’ from their biological parents. This process can be seen in donor conception, where some of our respondents experienced a form of ‘de-kinning’ where previous kin relationships are disrupted; this was not always due to a lack of a biological relationship, but sometimes due to the families’ views of donor conception itself.

There is also a temporal dimension of kinship to be considered. As Howell notes, “self-conscious and temporal practices of kinning” are efforts to “fix them [the adopted child] permanently not only into the present, but also into the past of their new family and kin” (Howell 2003, p. 468). Our study shows how this work might be ‘un-done’ or reconstructed when donor-conceived people become active agents in their own lives – the boundaries of kinship set by the parents may either hold or be re-made when the child becomes an adult. The adult ‘child’ has greater control over how kinship is ‘done’ and can construct their own sense of ‘family’. Thus, kinship work is ongoing and never ‘settled’ – different parties will make and un-make bonds. This temporality of kinship relationships is often overlooked, they are not set at birth or childhood, but evolve and the meaning of being donor-conceived can also change over the life-course.

A number of policy implications arise from this research. First, it is clear that more support is needed for parents in handling how to tell their child and manage the ongoing discussions and dialogue that this should entail. As noted, simply telling at a relatively young age in itself does not ameliorate any possible negative effects. Disclosure is a process rather than an event and ongoing support is needed for parents and donor-conceived families as the children are being brought up (see Fine, 2015). Helping children to make sense of donor conception and families to incorporate it into their family narratives is a form of epistemological work. This will, in some cases, benefit from professional and/or peer guidance and support. Second, donor-conceived adults could benefit from some kind of support and preparation when beginning to inquire about and possibly search for their relatives through donor conception (see Crawshaw et al, 2016). As has been noted (Scheib et al, 2017) with increasing numbers of parents disclosing to their donor-conceived offspring and the increasing availability of DNA testing (Harper et al, 2016), donor anonymity could well become a thing of the past, and the issue of appropriate support and information for those using and born from donor conception is becoming more pressing. There are also further areas for research suggested by our data that could be explored: how people searching through DNA databases conceptualise
and manage the uncertainty of the results; how becoming parents themselves might affect donor-conceived people’s views of kinship; how the resonance of information and searching passes down the generations; whether the absence of donor information contributes to discomfort or dissatisfaction about being donor-conceived even among those who were told of their origins in childhood; and how these kinship (or other) relationships created by searching, i.e. finding donor-conceived relatives, develop or change over the life-course, and how embedded these new relationships become. Although a number of these areas are not new research questions, there is a need for longer term follow-up and understanding of how donor conception is experienced over the life-course – kinning and unkinning have important temporal aspects that have hitherto not been fully explored.

Conclusion

When thinking about linkages between, donor-conceived individuals, donors and donor conceived siblings, identity is, in some cases, still embedded in a form of biogenetic connection. However, this connection is not one straightforwardly associated with kinship as it has been formulated in the Euro-American tradition. Here, as Kramer (2011) notes, the role biogenetic kinship plays is ‘selective’ and it can be invoked as important or discarded. The ‘relations’ and concepts of relatedness formed by donor-conceived individuals between their donor and/or donor-conceived siblings raise unfamiliar constructs and these coexist with, and reinterpret, familiar kinships forms – creating ‘new’ and fluid family forms. Further, the implications for relationships with existing family are equally fluid with both the possibilities of consolidation or ‘unkinning’ being produced by the knowledge of donor conception and the process of searching for donor relations.

Acknowledgements

We would like to thank the staff of the UKDL and all those who responded to our survey.

About the Authors

Lucy Frith (PhD) is Reader in Bioethics and Social Science at the University of Liverpool. Her research focuses on the social and ethical aspects of health-care decision-making, policy and regulation. She has published widely on a range of issues in bioethics, with a longstanding interest in the social and ethical aspects of reproductive technologies.

Eric Blyth (PhD) is Emeritus Professor at the University of Huddersfield, where he was formerly Professor of Social Work. He has been engaged in research, policy development and regulation regarding assisted human reproduction, with a special interest in third-party assisted conception, for more than three decades.

Marilyn Crawshaw (PhD) is Honorary Fellow in Social Work (previously Senior Lecturer) at the University of York. Her long-standing practice and research experience in donor-assisted conception, surrogacy, cancer-related fertility, adoption and birth registration uses a lifelong perspective. She has been an External Adviser and Social & Ethical Inspector for the Human Fertilisation and Embryology Authority and chairs the UK multi-agency group PROGAR.

Olga van den Akker (PhD) is Professor of Health Psychology at Middlesex University. She is a chartered health psychologist with a focus on the psycho-social aspects of reproductive health psychology. She has authored a number of book and published widely on all aspects of reproductive health, specialising in infertility, gamete donation and surrogacy.

References


Crawshaw, M. (2002) Lessons from a recent adoption study to identify some of the service needs of, and issues for, donor offspring wanting to know about their donors’ Human Fertility 5: 6–12.


Daniels, K.R., Kramer, W., Perez-y-Perez, M.V. (2012) Semen donors who are open to contact with their offspring: issues and implications for them and for their families, Reproductive Biomedicine Online 25: 670–677.


The views of adult offspring of sperm donation. Fertility and Sterility 93: 2236–2246.


Bringing kinship into being: connectedness, donor conception and lesbian parenthood, Sociology 48(2): 268–283.


Donor information considered important to donors, recipients and offspring: an Australian perspective. Reproductive Biomedicine Online 22:303–311.


Who requests their sperm donor’s identity? The first ten years of information releases to adults with open-identity donors, Fertility and Sterility. http://dx.doi.org/10.1016/j.fertnstert.2016.10.023.


Interpreting Qualitative Data: Methods for Analysing Talk, Text, and Interaction, Third edn, London: SAGE.
