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Medical egg freezing: How cost and lack of insurance cover impact women and their families

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15 Abstract Medical egg freezing (MEF) is being recommended increasingly for women at risk of losing their reproductive ability due to 16 cancer chemotherapy or other fertility-threatening medical conditions. This first, binational, ethnographic study of women who had undergone MEF sought to explore women's experiences under two different funding systems: (i) the USA, where the cost of MEF is rarely 17 covered by private or state health insurance; and (ii) Israel, where the cost of MEF is covered by national health insurance. Women 18 were recruited from four American and two Israeli in-vitro fertilization clinics where MEF is offered. In-depth, semi-structured 19 interviews were conducted with 45 women (33 Americans, 12 Israelis) who had completed at least one cycle of MEF. All of the Israeli 20 women had cancer diagnoses, but were not faced with the additional burden of funding an MEF cycle. In marked contrast, the American 21 women - 23 with cancer diagnoses and 10 with other fertility-threatening medical conditions - struggled, along with their families, to 22 23 'piece together' MEF funding, which added significant financial pressure to an already stressful situation. Given the high priority that both American and Israeli women in this study placed on survival and future motherhood, it is suggested that insurance funding for MEF 24 25 should be mandated in the USA, as it is in Israel. This article concludes by describing new state legislative efforts in this regard. 횐

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KEYWORDS: medical egg freezing, fertility preservation, cancer, insurance coverage, USA, Israel

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29 Introduction

Over the past 5 years, fertility preservation via oocyte 31 vitrification has been recommended increasingly for young 32 women who are at risk of losing their reproductive ability and 33 the chance to conceive their own genetic offspring (Argyle 34 et al., 2016; Doyle et al., 2016). This includes cancer patients 35 scheduled to undergo treatment with cytotoxic chemotherapy 36 (Baysal et al., 2015; Cobo et al., 2013; Hershberger et al., 37 38 2013), as well as women with other medical conditions 39 (e.g. autoimmune disorders, severe endometriosis, genetic profiles including BRCA1 and 2, Turner syndrome and fragile X 40 syndrome) that threaten their future fertility (Cobo et al., 41 2013; Garvelink et al., 2013). In such cases, medical egg 42 43 freezing (MEF) is an option for women who are not in a position to freeze embryos created with sperm from either a partner or 44 a donor. In such cases, MEF can potentially preserve a woman's 45 46 ability to conceive a genetically related child in the future. 47 thereby preventing infertility-related regret (Baysal et al., 48 2015; Benedict et al., 2015). MEF may also give female cancer 49 patients the feeling of psychological comfort that sperm 50 cryopreservation has offered to generations of young men with cancer (Peddie et al., 2012; Reinblatt et al., 2011; Ryan, 51 52 2011).

53 Studies of MEF, especially among cancer patients, report numerous current barriers to access. These include inade-54 quate presentation of fertility-related information to patients 55 (Banerjee and Tsiapali, 2016; Corney and Swinglehurst, 2013; 56 Vindrola-Padros et al., 2017), lack of available MEF specialists 57 to whom referrals can be made easily (Kim and Mersereau, 58 2015; Louwe et al., 2016; Srikanthan et al., 2016), and 59 patient-provider communication issues (Louwe et al., 2016), 60 which include physicians' own discomfort in discussing future 61 fertility, especially when time is of the essence (Ben-Aharon 62 et al., 2016; Benedict et al., 2015; Mathur et al., 2013; Moore, 63 2017; Quinn et al., 2008, 2009; Vindrola-Padros et al., 2017). Q3 65 In an overview of barriers to fertility preservation among cancer 66 patients, both intrinsic factors (i.e. patients' attitudes and 67 health literacy, clinicians' approaches and skills, doctor-patient relationships) and extrinsic factors (i.e. fertility preservation 68 resources, institutional characteristics) were found to influence 69 patients' and healthcare professionals' decision making at the 70 time of cancer diagnosis (Panagiotopoulou et al., 2015). A 71 recent meta-analysis also showed that oncofertility services 72 and support are often not delivered to eligible patients 73 74 according to current guidelines (Logan et al., 2017).

75 Most of these studies have focused primarily on provider issues. Significantly less attention has been paid to the cost of 76 MEF as a potential barrier to access. In two web-based surveys 77 78 of cancer survivors conducted in the USA, concerns about the 79 cost of MEF, especially among lower-income patients, were a significant factor in women's decisional conflict (i.e. 'to 80 81 preserve or not to preserve') (Mersereau et al., 2013). This was true despite the fact that the cost of MEF has decreased 82 over time as the technology and support for cancer patients 83 have become more common in in-vitro fertilization (IVF) 84 85 clinics in the USA (Bann et al., 2015). For example, in a study 86 of 550 young adult cancer survivors (males and females) diagnosed between the ages of 15 and 39 years, only 182 87 pursued fertility preservation, with 40% of the women 88 choosing MEF. Between the years 2006 and 2009, 41% of MEF 89 users paid \$15,000 or more for a single cycle. However, 90

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between the years 2010 and 2012, the cost of MEF had 91 decreased, with only 14% of women paying that much (Bann 92 et al., 2015). Despite this reduction in cost over time, both 93 American surveys showed that between one-guarter and one- 94 third of respondents considered the cost of MEF to be 95 prohibitive. This was particularly true of those reporting 96 annual incomes of <\$50,000, who were twice as likely to 97 report cost concerns and half as likely to undergo MEF 98 (Mersereau et al., 2013). Similarly, in a recent multi- 99 country, population-based survey of paediatric and adoles- 100 cent cancer patients in Europe, the cost of MEF and the 101 availability of public funding were found to be prominent 102 factors affecting patients' MEF decision making (Diesch et al., 103 2017), as well as physicians' recommendations about whether 104 to pursue fertility preservation (Srikanthan et al., 2016). 105

Given these potential MEF cost concerns, this study 106 sought to compare women's experiences of MEF under two 107 different state funding systems: (i) the USA, where MEF is 108 rarely covered by private health insurance, even in states 109 with insurance mandates for infertility treatment; and (ii) 110 Israel, where MEF is routinely covered by the state's national 111 health insurance. The authors were interested to learn how 112 women experienced MEF in light of its cost and the divergent 113 funding strategies in the two countries. In the USA, the 114 authors were interested to know how women paid for MEF, 115 and what they thought about the lack of insurance coverage 116 for this form of fertility preservation. 117

Materials and methods

This medical anthropological study was designed as a 119 binational, ethnographic investigation of oocyte cryopreser- 120 vation among women who had completed at least one cycle of 121 MEF. The study was conducted in the USA and Israel, two 122 countries where clinical approval of oocyte vitrification, 123 including for medical purposes, occurred relatively early (in 124 2012 and 2011, respectively). The study took place from June 125 2014 to August 2016, and was supported by the US National 126 Science Foundation's Cultural Anthropology and Science, 127 Technology, and Society programmes. Forty-five women who 128 had undertaken MEF were recruited from six IVF clinics 129 offering oocyte cryopreservation: four in the USA (two 130 academic, two private) and two in Israel (both academic).

In the USA, recruitment occurred primarily by e-mail 132 flyers sent out by the participating clinics to women who had 133 completed at least one cycle of MEF. Women who were 134 interested in participating in the study contacted the first 135 author (MCI), either directly or through the clinic. In the two 136 academic IVF clinics, some women were given the study 137 flyer directly by their clinicians during appointments, and 138 were invited to contact the first author if they were 139 interested in participating in the study. In Israel, recruit- 140 ment occurred by telephone, with IVF clinicians and their 141 assistants inviting women to participate in the study. Women 142 who volunteered to participate were contacted by tele-143 phone by the second author (DB-C), who set a time and place 144 for the interview at the women's convenience. 145

Women who volunteered for the study signed written 146 informed consent forms, agreeing to a confidential, audio- 147 recorded interview in a private setting. The interviews were 148 semi-structured and usually lasted for 60 min, but ranged 149

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