The International Fertility Education Initiative: research and action to improve fertility awareness

Joyce C. Harper 1,*, Karin Hammarberg 2,3, Mara Simopoulou 4, Emily Koert 5, Juliana Pedro 6,7, Nathalie Massin 8, Anita Fincham 9, and Adam Balen10; on behalf of the International Fertility Education Initiative†

1EGA Institute for Women’s Health, Reproductive Science and Society Group, University College London, London, UK 2School of Public Health and Preventive Medicine, Monash University, Melbourne, VIC, Australia 3Victorian Assisted Reproductive Treatment Authority, Melbourne, VIC, Australia 4Department of Physiology, Medical School, National and Kapodistrian University of Athens, Athens, Greece 5Department of Public Health, Section of Social Medicine, University of Copenhagen, Copenhagen, Denmark 6Centre for Reproductive Genetics A. Barros, Porto, Portugal 7Centre for Psychology at University of Porto, Porto, Portugal 8Department of Gynecology, Obstetrics and Reproductive Medicine, Intercommunal Hospital, Creteil Cedex, France 9Fertility Europe VZW, Evere, Belgium 10Reproductive Medicine, Leeds Teaching Hospitals, Leeds, UK

*Correspondence address. EGA Institute for Women’s Health, Reproductive Science and Society Group, University College London, 86-96 Chenes Mews, London WC1E 6HX, UK. E-mail: joyce.harper@ucl.ac.uk

WHAT DOES THIS MEAN FOR PATIENTS?

Research shows that people’s knowledge about fertility and what they can do to improve the chance of having children is generally low. For people who want to have children, more awareness about the factors that affect fertility and chance of pregnancy might improve their chance of achieving their desired family size. The International Fertility Education Initiative (IFEI) is a newly formed group of experts from around the world who want to improve fertility and reproductive health awareness through education. The group includes health professionals, researchers, and representatives from patient organizations, professional societies, and industry. In this commentary, we explain why it is important that fertility and preconception health education is included in health and education policy and practice.

In response to evidence that people of reproductive age lack awareness about the factors that affect the chance of conceiving and having a healthy baby, a group of experts have founded the International Fertility Education Initiative (IFEI). Its mission is to improve fertility and reproductive health awareness through education. We believe that fertility education could reduce the prevalence of infertility and improve the health of future children. The group has representatives from Australia, Belgium, Canada, Czech Republic, Denmark, Finland, France, Greece, Japan, Philippines, Poland, Portugal, Sweden, Turkey, UK, Fertility Europe (represents patient associations in the field of (in)fertility in more than 20 European countries), and ESHRE and includes scientists, clinicians, nurses, health psychologists, clinical psychologists, bioethicists, fertility advocates, patients with infertility, and industry. In this commentary, we explain why it is important that fertility and preconception health education is embedded in health and education policy and practice.

Parental age at first birth has been increasing in the last few decades and is now around 30 years for women and 2–3 years older for men in many high-income countries (OECD, 2019). Because both female and male fertility declines with age, this means that some people will have fewer children than they had hoped to have or will end up childless, even after fertility treatment. In the Organisation for Economic Co-operation and Development (OECD) countries, the average rate of childlessness among women at the end of the reproductive period is 18% among women born in 1970 (OECD, 2018). For some, this is by choice, and support and understanding for people who choose to lead a childfree life are often lacking (Hintz and Brown, 2019; Moore, 2020; Stahnke et al., 2020; Verniers, 2020). For others, infertility, medical conditions, lack of a partner, or other personal circumstances might cause involuntary childlessness.

†The members of the International Fertility Education Initiative are given in the Appendix.
If and when people have children is influenced not only by their desires and personal circumstances but also by social and economic factors. Mills et al. (2011) conclude that access to effective contraception, increases in women’s education and labour market participation, value changes, gender equity, partnership changes, housing conditions, economic uncertainty, and the absence of supportive family policies all contribute to later childbearing. However, lack of knowledge and awareness of the factors that influence fertility, including age, among people of reproductive age might contribute to later childbearing (Hammarberg et al., 2013; Pedro et al., 2018). Also, most people

Figure 1. The fertility education poster produced by the International Fertility Education Initiative.
overestimate the chance of achieving parenthood through IVF and this might lead to unrealistic expectations of what is possible with IVF (Fauser et al., 2019). Improved public awareness about the potentially modifiable factors that affect fertility could reduce the risk of infertility and the need for infertility treatment. In addition, greater awareness among women and men of reproductive age about the impact of age and some potentially modifiable factors on fertility as well as the importance of optimal parental preconception health may improve pregnancy outcomes and the health of babies at birth and into adulthood (Barker et al., 2018; Fleming et al., 2018; Stephenson et al., 2018).

Taken together, this evidence shows that public education initiatives are needed to help people who want to have children make informed reproductive decisions to achieve their desired family size and have healthy babies.

In some countries, fertility education programmes have been instigated. Australia was the first with a government funded programme, which includes an interactive website with over 5 million visits per year and learning modules for healthcare providers (www.yourfertility.org.au) (Hammarberg et al., 2017). Denmark has published a national report on infertility prevention in 2016 (Nielsen et al., 2016) and in 2011, opened the world’s first Fertility Assessment and Counselling Clinic to provide individual assessment and guidance to women and men with no known reproductive problems (Hvidman et al., 2015; Birch Petersen et al., 2017). To date, the clinic has seen more than 3000 people. In the UK, the Fertility Education Initiative was established in 2016 (www.fertilityed.uk; Harper et al., 2017) and the Department for Education (2019) introduced fertility education into the UK curriculum in 2019. Several countries have established fertility education websites, including Belgium (klaravoor kinderen.be; testje-vuchtbaarheid.be), Greece, Portugal (https://www.cuidadatuafertilidade.pt/), Czech Republic (www.mojeperyproducni zdravi.cz), and Sweden (http://www.reproduktivilivsplan.se/).

The call for universal fertility education was also part of Fertility Europe’s 2019 Call to Action to encourage politicians to support equal access to infertility treatment and education in the European Union. The IFEI founders, in collaboration with members of ESHRE and Fertility Europe, developed a fertility education poster (Fig. 1), which was launched in the EU Parliament as part of the ‘My Fertility, My Future, My Family’ campaign organized by Fertility Europe during their annual European Fertility Week in 2019. The poster targets the general public of all ages, with the aim of facilitating the conversation around fertility education. It is hoped that the poster will be displayed in doctors’ and gynaecology surgeries, family planning clinics, and schools. Evaluation of the public’s perception of the poster is underway.

The primary goal of the fertility education poster is to increase public awareness about fertility and what people can do to have the best chance of having a healthy child. The poster provides facts, highlights misconceptions, and sets the record straight on common myths regarding fertility. The poster campaign also aims to increase policymakers’ awareness of the need for fertility education, making the case that it enables informed reproductive decision-making. The poster has been translated into 35 languages and is free to download from www.fertilityeurope.eu. A video in English is available at https://www.youtube.com/watch?v=S5UmX4TsDNo&t=25s

To build on the strengths of these innovative public education initiatives and to create a multidisciplinary and collaborative research platform, the IFEI was established in 2020. The mission of the IFEI is 2-fold; to promote fertility awareness and preconception health through public education and to conduct research. Our vision for improving fertility awareness is still developing but our target audiences include adolescents, people of reproductive age, primary healthcare and education professionals, and policymakers. The two research themes the group will pursue are to establish country-specific evidence about people’s knowledge and attitudes to fertility and identify knowledge gaps, and to evaluate the effectiveness of existing and emerging fertility education programmes. Such programmes need to be tailored to different age groups, genders, ethnicities, and sexual orientations. For example, a woman aged 40 years who is struggling to conceive will need different information to an 18-year-old male who is not contemplating fatherhood.

IFEI members are currently developing a website where health professionals can share information about fertility education and research projects they are involved in or planning. We welcome people with an interest in fertility education to join us to help establish national fertility education programmes in as many countries as possible. Ultimately, we want every country to have a comprehensive government-sponsored fertility education programme because we believe that fertility education should be provided to young people in schools in an age-appropriate manner and, beyond, to all people in their reproductive years. The aim is to ensure that people are empowered with the knowledge they need to make informed decisions about their reproductive choices and that they have a full understanding of all aspects of their reproductive health and what they can do to enhance their chances of having a family when the time is right. Awareness about the role and limitations of modern treatments and technology in the treatment of infertility and in creating ‘modern families’ for those who are lesbian, gay, bisexual, and transgender is also essential.

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Appendix
The International Fertility Education Initiative Committee comprises: Tomas Bagoci, Basak Balaban, Adam Balen, Valerie Blanchet, Maja Bodin, Jacky Boivin, Alexandra Carvalho, Ilse Delbaere, Michel De Vos, Kerem Dirican, Jacques de Mouzon, Maria Ekstrand Ragnar, Elif Ergin, Anita Fincham, Necati Findikli, Bole Grace, Timur Gursan, Emily Koert, Karin Hammarberg, Joyce Harper, Jessica Hepburn, Tuong Ho, Zuzana Holubcova, Shellie Jallorina, Sarah Johnson, Lale Karakoc, Lenka Libichova, Stepan Machac, En Maeda, Christina Magli, Mariana Veloso Martins, Nathalie Massin, Marijke Merckx, Heidi Mertes, Basar Murat, Odkhuu Enkhtaivan, Amelia Pantou, Juliana Pedro, Mariana Moura Ramos, Satu Rautakallio-Hokkanen, Virginie Rio, Ana Rita, Teresa Almeida Santos, Lone Schmidt, Mara Simopoulou, Evrim Unsal, and Søren Ziebe.

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