



Human Fertility

an international, multidisciplinary journal dedicated to furthering research and promoting good practice

ISSN: (Print) (Online) Journal homepage: www.tandfonline.com/journals/ihuf20

Fertility 2025 Reproduction – Facts, Myths and Evidence 8–11th January 2025 ACC Liverpool The joint conference of the Association of Reproductive & Clinical Scientists, British Fertility Society, and the Society for Reproduction & Fertility

To cite this article: (2025) Fertility 2025 Reproduction – Facts, Myths and Evidence 8–11th January 2025 ACC Liverpool The joint conference of the Association of Reproductive & Clinical Scientists, British Fertility Society, and the Society for Reproduction & Fertility, Human Fertility, 28:1, 2466874, DOI: [10.1080/14647273.2025.2466874](https://doi.org/10.1080/14647273.2025.2466874)

To link to this article: <https://doi.org/10.1080/14647273.2025.2466874>



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Published online: 27 Feb 2025.



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ABSTRACT



Fertility 2025
Reproduction – Facts, Myths and Evidence
8–11th January 2025
ACC Liverpool
The joint conference of the Association of Reproductive & Clinical Scientists,
British Fertility Society, and the Society
for Reproduction & Fertility

SRF Post Doctoral Prize Session

82. Spatial transcriptomics identifies immune cell dysregulation in adenomyosis and potential for fertility-sparing therapeutic strategies

Alison Maclean^{1,2}, Emily Johnson³, Eva Caamano-Gutierrez³, Dharani Hapangama^{1,2}

¹Department of Women's and Children's Health, Institute of Life Course and Medical Sciences, University of Liverpool, Liverpool, UK. ²Liverpool Women's Hospital NHS Foundation Trust, Liverpool, UK. ³Computational Biology Facility, University of Liverpool, Liverpool, UK.

66. Kingdom of reproductive life; core sperm proteome

David Skerrett-Byrne^{1,2,3,4}, Brett Nixon^{3,4}, Timothy Karr^{5,6}, Raffael Teperino^{1,2}, Susan Marschall⁷, Helmut Fuchs⁷, Valérie Gailus-Durner⁷, Taylor Pini⁸

¹Institute of Experimental Genetics, Helmholtz Zentrum München, German Research Center for Environmental Health, Munich, Germany. ²German Center for Diabetes Research, Munich, Germany. ³Priority Research Centre for Reproductive Science, The University of Newcastle, Newcastle, Australia. ⁴Infertility and Reproduction Research Program, Hunter Medical Research Institute, Newcastle, Australia. ⁵Biosciences Mass Spectrometry Core Research Facility, Knowledge Enterprise, Arizona State University, Arizona, USA. ⁶ASU-Banner Neurodegenerative Disease Research Center, The Biodesign Institute, Arizona State University, Arizona, USA. ⁷Institute of Experimental Genetics, German Mouse Clinic, Helmholtz Zentrum München, German Research Center for Environmental Health, Munich, Germany. ⁸School of Veterinary Science, The University of Queensland, Gatton, Australia

332. Increased susceptibility to obesity in mice is linked to suppressed steroidogenesis in theca cells mediated by leptin-associated Nodal signalling suppression

Karolina Wolodko¹, Tjasa Sentjurc¹, Edyta Walewska¹, Elzbieta Laniecka¹, Antonio Galvao^{1,2}

¹Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Olsztyn, Poland. ²The Royal Veterinary College, University of London, London, UK.

277. A microRNA specific to mammals exhibiting cotyledonary placentation is present in, and exhibits, differential expression in in vivo and in vitro bovine endometrium

Jessica Edge¹, Jonathan Fenn², Haidee Tinning¹, Mary O'Connell², Niamh Forde¹

¹University of Leeds, Leeds, UK. ²University of Nottingham, Nottingham, UK.

35. Paternal nutritional insults alter the microrna distribution in male reproductive tract-extracellular vesicles

Vipul Batra, Katie Choi, David Onion, Sonal Henson, Nadine Holmes, Victoria Wright, Adam Watkins
University of Nottingham, Nottingham, UK.

PW1 Poster Walk**223. Improving embryo ploidy prediction with ERiCA using graph-based methods and time-lapse image analysis**

Saul Munoz-Herrera¹, Omar Paredes^{2,3}, Erotas Nikitas⁴, Alejandro Chavez-Badiola², Jacques Cohen², Giles Palmer², Andrew Drakeley^{2,5,6}

¹University of Guadalajara, Guadalajara, Mexico. ²IVF2.0, London, UK. ³University of Guadalajara, Guadalajara, Mexico. ⁴Institute of Life, Iaso Hospital, Athens, Greece. ⁵Liverpool Women's NHS Foundation Trust, Liverpool, UK.

⁶University of Liverpool, Liverpool, UK.

109. An in-silico framework for evaluating the safety of large-scale PGT-P

Chloe He^{1,2,3}, Alexis Gkantiragas⁴, Robert Clarke⁵, Lilly Lees⁶, Lexi Veil⁶, Teodora Popa^{1,7}

¹University College London, London, UK. ²Sapphic Bison, London, UK. ³Ovom Care, Berlin, Germany. ⁴Queen Mary University of London, London, UK. ⁵University of Bath, Bath, UK. ⁶Durham University, Durham, UK. ⁷Avenues, London, UK.

234. Validation of a slide-based Sperm Chromatin Structure Assay (SCSA) for low sperm count samples using Acridine Orange (AO) staining

Dhanush Kumar Kollu Babu¹, Marie Claire Aquilina¹, Shaun Rogers², Olivia Whiting¹, Peter J I Ellis¹

¹University of Kent, Canterbury, UK. ²Mojo Fertility, London, UK.

335. Challenges in performing fertility preservation in sickle cell anaemia: a proposal for a safe multi-disciplinary pathway

Katrina Sherlock, Yeliz Atik, Neerujah Balachandren, Bernadette Hylton, Perla Eleftheriou, Stuart Lavery, Melanie Davies, Ephraim Yasmin

University College London Hospital, London, UK.

15. Endocannabinoid concentrations in seminal fluid of fertile and infertile males: A systematic review

Kristian Leisegang¹, Faith Moichela¹, Renata Finelli²

¹University of the Western Cape, Bellville, South Africa. ²London Women's Clinic, London, UK.

296. Don't forget men: They need help too!

Suman Dadhich, Abha Maheshwari, Lena Gospel, Anthony McLaughlin

Aberdeen Centre of Reproductive Medicine, Aberdeen, UK.

308. The effect of valproate-containing drugs on male fertility and reproductive function

Kathleen Duffin^{1,2}, Amina Kaddouri², Jay Shetty^{2,1}, Rod Mitchell^{2,1}

¹Royal Hospital for Children and Young People, Edinburgh, UK. ²University of Edinburgh, Edinburgh, UK.

184. Improving nursing operation efficiency through the use of a digital clinic and patient management platform

Katie Rankin¹, Teodora Popa^{1,2}, Christina Hancock¹, Lauren Ryan¹, Chloe He^{3,4}, Alexa Zapeda¹, Andrew Thomson^{1,2}, Oana Paun¹, Hannah Coffey¹, Madison Bailey¹, Lynae Brayboy⁴, Amed Amer^{5,6}, Rufus Morgan¹, Rami Wakim¹, Muhammad Fatum^{1,2}, Cristina Hickman^{1,7}

¹Avenues Centre for Reproductive Health, London, UK. ²UCL Institute for Women's Health, London, UK.

³Wellcome/EPSCRC Centre for Interventional and Surgical Sciences UCL, London, UK. ⁴Ovom Care, Berlin, Germany.

⁵Ovom Care, London, UK. ⁶MyFertility, London, UK. ⁷Ovom Care, Berlin, UK.

202. Unexpected ejaculation failure on the day of oocyte retrieval: the psychosocial effect of ethical beliefs on ART

Kayleigh Edwards

TFP Belfast Fertility, Belfast, UK.

280. Growing interest in home fertility treatment options: an online study demonstrates

Kim Christiansen, Tess Cosad

Béa Fertility, StepOne Fertility Ltd, London, UK.

224. Unexpected hypo-response in predicted hyper-responders: incidence and predictive factors*Lakshmi Jayagovarthanan¹, Raj Mathur¹, Anjaly Nair²*¹Saint Marys Hospital, Manchester University NHS foundation Trust, Manchester, UK. ²MOSC Medical Mission, Kolenchery, India**30. From force to function: agonism of the PIEZO1 mechanosensor enhances nitric oxide signalling in placental endothelial cells***Lara Morley^{1,2}, Marjolaine Debant¹, Muath Bajarwan¹, Fiona Bartoli¹, Nigel Simpson^{1,2}, David Beech¹*¹University of Leeds, Leeds, UK. ²Leeds Teaching Hospitals Trust, Leeds, UK.**62. The Implementation of a dedicated study day for Health Care Support Workers***Laura Carter-Penman¹, Nikki Turner²*¹Peppy Health, London, UK. ²The Fertility Partnership, London, UK.**182. How a four-day workweek coupled with digitalisation enhances nursing well-being and job satisfaction in Assisted Reproductive Technology (ART)***Lauren Ryan¹, Katie Rankin¹, Christina Hancock¹, Teodora Popa^{1,2}, Chloe He^{3,4}, Rufus Morgan¹, Alexa Zapeda¹, Andrew Thomson^{1,2}, Oana Paun¹, Hannah Coffey¹, Madison Bailey¹, Ahmed Amer^{5,6}, Lynae Brayboy⁷, Rami Wakim¹, Muhammad Fatum^{1,2}, Cristina Hickman^{1,7}*¹Avenues Centre for Reproductive Health, London, UK. ²UCL Institute for Women's Health, London, UK.³Wellcome/EPSRC Centre for Interventional and Surgical Sciences UCL, London, UK. ⁴Ovom Care, Berlin, Germany.⁵Ovom Care, Berlin, UK. ⁶MyFertility, London, UK. ⁷Ovom Care, London, UK.**218. Exploring the ethical implications of PGT-P on marginalized and disabled sub-populations***Lexi Veil, Lilly Lees*

Durham, Durham, UK.

111. Comparing hormone receptor expression in the inner and outer layers of the human myometrium during labour and across the menstrual cycle*Lorna Salvini, Alison Maclean, Christopher Hill, Parveen Sharma, Eva Caamano Gutierrez, Dharani Hapangama*

The University of Liverpool, Liverpool, UK.

197. Is ovarian reserve associated with risk of miscarriage? A systematic review and meta-analysis*Lorraine Kasaven^{1,2}, Nicholas Anson^{1,2}, Benjamin Jones^{3,2}, Rabi Ahmed-Odia¹, Javier Cordero¹, Jara Ben Nagi¹, Efstathios Theodorou¹*¹CRGH, London, UK. ²Imperial College Healthcare Trust, London, UK. ³Lister Fertility, London, UK.**300. Statistical and machine learning methods for prediction of embryo ploidy status: a potential alternative to invasive preimplantation genetic testing for aneuploidy***Lucie Frechin¹, Sabrina Rodrigues¹, Annabel Rattos², Ruben Colindres Zuehlke¹, Jennifer Barcroft², Monica Mittal²*¹Imperial College London, London, UK. ²Wolfson Fertility Centre, London, UK.**174. Scenario modelling to assess whether fertility treatment costs can be reduced by judicious use of PGT-A?***Mariano Mascarenhas, Jennifer Tamblyn, Alison Campbell, Adam Balen*

Care Fertility Leeds, Leeds, UK.

58. Bluetooth Security Analysis of FemTech IoT Devices and Apps*Stephen Cook¹, Maryam Mehrnezhad¹, Ehsan Toreini²*¹Royal Holloway University of London, Egham, UK. ²University of Surrey, Guildford, UK.**113. Chicken chemerin, alone or in mixture with adiponectin and visfatin, has an inhibitory effect on primary hen granulosa cell's progesterone secretion***Ophélie Bernardi¹, Mathias Fréville¹, Christelle Ramé¹, Maxime Reverchon², Joëlle Dupont¹*¹INRAE, Nouzilly, France. ²SYSAF, Nouzilly, France

23. AMH levels: a strong predictor of oocyte quality assessed by artificial intelligence, even for younger patients undergoing ICSI cycles

Maximiliano Beltramo, Ernesto Vazquez Hidalgo, Andrea Sanchez, Catherine Gibbons, Toyin Ojo, Roisin Ni Dhuifin, Amy Hogan, Mari Carmen Lorenzo, Laura Salvatore
Repromed, Galway, Ireland

102. Exploring treatment effectiveness and perceptions for endometriosis and adenomyosis TEPEA: a national questionnaire

Megan Lawrence¹, Ellen Palmer², Alison Maclean^{3,4}, Stephen Lane⁵, Dharani Hapangama^{3,4}

¹School of Medicine, University of Liverpool, Liverpool, UK. ²Department of Obstetrics and Gynaecology, Ormskirk District General Hospital, Ormskirk, UK. ³Department of Women's and Children's Health, Institute of Life Course and Medical Sciences, University of Liverpool, Liverpool, UK. ⁴Centre for Women's Health Research, Liverpool Women's Hospital, Crown Street, Liverpool, UK. ⁵Department of Mathematical Sciences, University of Liverpool, Mathematical Sciences Building, Liverpool, UK.

20. Evaluating ultrasound accuracy in diagnosing benign ovarian cysts in infertility patients: A retrospective MRI analysis

Wilson Lim¹, Seema Karan², Panayoti Bachkangi¹

¹United Hospitals of Derby and Burton NHS Trust, Burton upon Trent, UK. ²Northern Lincolnshire and Goole NHS Foundation Trust, Scunthorpe, UK.

43. Dietary behaviour and concordance among couples with a history of recurrent miscarriage: a prospective multi-center cohort study

Yealin Chung¹, Pedro Melo², Christina Easter¹, Malcolm Price³, Rima Smith¹, Siobhan Quenby⁴, Adam Devall¹, Arri Coomarasamy¹

¹University of Birmingham, Birmingham, UK. ²University of Oxford, Oxford, UK. ³Canadian University Dubai, Dubai, UAE. ⁴University of Warwick, Coventry, UK.

204. Dysregulation of immune, coagulation and endocrine pathways in Asherman syndrome

Yousef Alebrahim^{1,2}, Abdullah Shahzad², Daxina Bhatt^{1,2}, Olivia Moran^{1,2}, Navneet Kaur^{1,2}, Marlon Bonilla¹, Jenny Myers^{1,2}, Lamiya Mohiyiddeen^{1,2}, Elizabeth Mann²

¹Manchester University NHS Foundation Trust, Manchester, UK. ²University of Manchester, Manchester, UK.

55. Sharing bad news in fertility care: what steps do professionals take and how do they cope with the associated stress? (A qualitative study)

Elizabeth Adcock^{1,2}, Jacky Boivin², Sofia Gameiro²

¹BTHFT, Bradford, UK. ²Cardiff University, Cardiff, UK.

RF1 Rapid Fire Poster Session

101. PGT-A results led to change in order of embryo transfer compared to embryo morphology alone

Ciara Nolan, Sarah Petch, Jennifer Cullinane, Aoife Campbell, Joyce Leyden, Louise Glover, David Crosby
Merrion Fertility Clinic, Dublin, Ireland

289. Mitotic aneuploidy and its consequences on preimplantation mouse embryo development

Krutika Patil¹, Greg FitzHarris^{2,3}

¹Centre de Recherche du Centre Hospitalier de l'Université de Montréal, Montreal, Canada. ²Centre de Recherche du Centre Hospitalier de l'Université de Montréal, Montreal, Quebec, Canada. ³Département d'Obstétrique-Gynécologie, Université de Montréal, Montreal, Quebec, Canada

328. Comparison of density gradient preparation methods, with and without centrifugation

Ruby Grannell¹, Niamh Sefton¹, Giles Watts², Alison Campbell³, Sue Montgomery³

¹Liverpool John Moores University, Liverpool, UK. ²Liverpool John Moore's University, Liverpool, UK. ³Care Fertility, Manchester, UK.

264. Attenuating effect of alpha tocopherol on propoxur – induced gonadotoxicity in Wistar rat testes via oxidative stress

Olugbenga Eweoya¹, Funmilayo Ogbebor¹, Tunji Oyewopo²

¹University of Abuja, FCT-Abuja, Nigeria. ²University of Ilorin, Ilorin, Nigeria

RF2 Rapid Fire Poster Session

287. Transcription factor-based transdifferentiation of human embryonic to trophoblast stem cells

Paula Balestrini¹, Abdelbaki Ahmed², Afshan McCarthy³, Liani Devito³, Kay Elder⁴, Leila Christie⁴, Phil Snell⁴, Mahesh Sangrithi¹, Kathy Niakan², Norah Fogarty¹

¹King's College London, London, UK. ²University of Cambridge, Cambridge, UK. ³Francis Crick Institute, London, UK. ⁴Bourne Hall Clinic, Cambridge, UK.

5. What is the effect of sildenafil citrate intake on women undergoing assisted reproduction? A systematic review and meta-analysis of randomized controlled trials

Saeed Baradwan¹, Majed Saeed Alshahrani², Hussein Sabban³, Ahmed Abu-Zaid⁴

¹Department of Obstetrics and Gynecology, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia. ²Department of Obstetrics and Gynecology, Faculty of Medicine, Najran University, Najran, Saudi Arabia. ³Department of Obstetrics and Gynecology, Faculty of Medicine at Rabigh, King Abdulaziz University, Rabigh, Saudi Arabia. ⁴Department of Obstetrics and Gynecology, College of Medicine, Alfaisal University, Riyadh, Saudi Arabia

324. Impact of adenomyosis and co-existing endometriosis on IVF/ICSI outcomes

Sania Latif^{1,2}, Yeliz Atik¹, Ertan Saridogan^{1,2}, Dimitrios Mavrellos^{1,2}

¹University College London Hospital, London, UK. ²University College London, London, UK.

319. Exploring preimplantation genetic testing for aneuploidy (PGT-A) of 0PN and 1PN blastocysts to increase embryo utilisation rate in fertility treatment

Sarah Townson^{1,2}, Helen Clarke¹, Davina Hulme¹, Michael Carroll²

¹Jessop Fertility, Sheffield Teaching Hospitals, Sheffield, UK. ²Manchester Metropolitan University, Manchester, UK.

26. The experiences and psychological health of surrogates 20 years after their surrogacy

Sophie Ross¹, Kate Shaw², Poppy Hall², Susan Imrie², Vasanti Jadva^{3,2,1}

¹Institute for Women's Health, UCL, London, UK. ²Centre for Family Research, University of Cambridge, UK. ³Department of Psychology, City St George's, University of London, UK.

PW2 Poster Walk

216. Female fertility preservation in a primary brain tumour cohort

Meghna Balakrishnan¹, Zachary Nash², Melanie Davies²

¹University College London, London, UK. ²University College London Hospital, London, UK.

24. Predicting total fertilisation failure in ART: a comparison of factors at play in IVF and ICSI

Melissa Jones¹, Tulay Karasu²

¹University of Cambridge, Cambridge, UK. ²Cambridge IVF, Cambridge, UK.

81. Utilization of the ICER protein to increase fertility levels in zebrafish models

Melissa Spigelman, Carlos Molina

Montclair State University, Montclair, USA

320. Medical students' knowledge, attitudes, and practices regarding infertility in Poland: Findings from the Pol-Infertility pilot study

Michalina Drejza¹, Ewa Majcherek², Milena Kabatnik³, Katarzyna Gross-Kępińska³, Jane MacDougall¹

¹Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK. ²Poznan University of Medical Sciences, Poznan, Poland. ³INVICTA Fertility and Reproductive Center, Gdansk, Poland

21. Private-public interplays behind IVF clinical outcomes*Mihaela Stan*

UCL School of Management, London, UK.

208. Fertility enhancing herbs and their mechanism of actions*Misturah Yetunde Adana*

University of Ilorin, Ilorin, Nigeria

323. A conundrum for gynaecologists – safety of hormone replacement therapy in germ cell malignancy survivors with premature ovarian insufficiency*Miyuki Omura, Shehnaaz Jivraj*

Sheffield Teaching Hospitals NHS Foundation Trust, Sheffield, UK.

225. Oestradiol regulates the activity of DNA methyltransferases in luminal and stromal cells of the porcine endometrium*Monika Zembrzuska, Ewelina Goryszewska-Szczurek, Kalina Szteyn, Piotr Kaczynski, Agnieszka Wacławik*

Department of Hormonal Action Mechanisms, Institute of Animal Reproduction and Food Research, Polish Academy of Sciences, Olsztyn, Poland

91. Assessing phthalate effects on gonad development in vitro: distinguishing between biological and physicochemical effects*Morne van der Mescht, Richard Lea*

University of Nottingham, School of Veterinary Medicine & Science, Loughborough, UK.

152. Investigating the impact of prescribed DPPIV inhibitors on endometrial cell viability and spheroids attachment using an in-vitro co-culture model of embryo implantation*Nathan John Parks, Chimdiebube Faith John-azuka, Fehrish B. Sheikh, Stéphane Berneau*

University of Central Lancashire, Preston, UK.

98. Predictive age adjusted models to determine the number of oocytes cryopreserved during elective oocyte cryopreservation cycles*Nicholas Anson^{1,2}, Efsthios Theodorou¹, Lorraine Kasaven^{1,2}, Benjamin Jones^{2,3}, Rabi Ahmed-Odia¹, Javier Cordero¹, Jara Ben Nagi¹*¹CRGH, London, UK. ²Imperial College Healthcare Trust, London, UK.**314. Investigation into the effect of delayed freezing for ovarian cryopreservation***Nilay Kuscu, Kate Fowler, Suzannah Williams*

University of Oxford, Oxford, UK.

268. Do breast cancer receptor and BRCA mutation statuses impact ovarian reserve parameters and response to ovarian stimulation in patients undergoing urgent fertility preservation treatment?*Nuriyah Salawu¹, Mausumi Das²*¹Imperial Colleges London, London, UK. ²Imperial College London, London, UK.**284. Effect of culture duration on in vitro follicle development***Olivia Boardman, Ava Harrison, Janet Kwan, Nilay Kuscu, Suzannah Williams*

University of Oxford, Oxford, UK.

336. Maternal and fetal outcomes of singleton pregnancies conceived after fertility treatment*Onyinye Nwachukwu¹, Rabia Nusrat², Munawar Hussain³, Awa Sanyang¹, Emmanuel Okorochukwu¹, Raisham Saleem¹, Seifeldin Abdelgawad¹*¹Southend University hospital, Southend-on-sea, UK. ²Southend university Hospital, Southend-on-sea, UK.³Southend university hospital, Southend-on-sea, UK.

161. Role of visfatin (Nampt) on the early embryogenesis of normal weight and obese mice*Patrycja Kurowska¹, Shinnosuke Honda², Genta Tanaka², Naojiro Minami², Agnieszka Rak¹, Shuntaro Ikeda²*

¹AdipokinesTEAM, Laboratory of Physiology and Toxicology of Reproduction, Institute of Zoology and Biomedical Research, Jagiellonian University in Krakow, Krakow, Poland. ²Laboratory of Reproductive Biology, Graduate School of Agriculture, Kyoto University, Kyoto, Japan

65. Modelling the mammalian blastocyst*Peyman Shadmani^{1,2}, David Richards^{1,2}*

¹Living Systems Institute, University of Exeter, Exeter, UK. ²Department of Physics and Astronomy, University of Exeter, Exeter, UK.

57. Enhancing fertility clinic efficiency and confidence for registrars at Princess Royal Hospital through standardised protocols*Phoebe Howells*

Princess Royal Hospital, London, UK.

254. The effect of ketogenic diet on oocyte number and morphology and on oocyte metabolic state in rats*Piotr Kaczynski, Dorota Boruszewska, Ilona Kowalczyk-Zieba*

Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Olsztyn, Poland

166. Understanding the functional impact of modulating Luteinizing Hormone Receptor (LHR) oligomerisation in the murine ovary*Thomas Hopkins¹, Abigail Walker², Peter McCormick³, Aylin Hanyaloglu², Kim Jonas¹*

¹King's College London, London, UK. ²Imperial College London, London, UK. ³University of Liverpool, Liverpool, UK.

327. Maternal obesity-associated hyperleptinemia compromises trophoblast cell proliferation, migration, and angiogenesis regulation: insights from an in vitro human HTR8 trophoblast model*Tjaša Šentjurc^{1,2}, Elżbieta Laniecka², Karol G. Makowczenko², António Galvão^{1,2,3,4}*

¹The Royal Veterinary College, University of London, London, UK. ²Department of Reproductive Immunology and Pathology, Institute of Animal Reproduction and Food Research of Polish Academy of Sciences, Olsztyn, Poland. ³Babraham Institute, Epigenetics Programme, Cambridge, UK. ⁴University of Cambridge, Centre for Trophoblast Research, Cambridge, UK.

310. Outcome of post chemotherapy semen analysis in men. How many improve?*Urmee Jahan, Ephraim Yasmin, David Clark*

UCLH, London, UK.

76. Psychosocial insights on the consideration phase of the egg freezing journey; The need for clearer information and evidence*Alexandra Draycott¹, Ruth O Dywer², Valerie Shaikly¹*

¹Egg Advisor, London, UK. ²Unfolding Fertility, London, UK.

36. Sub-optimal paternal nutrition impacts foetal cardiac health through altered transcriptomic payload of epididymosomes*Vipul Batra¹, Hannah Morgan^{1,2}, Marcos Castellanos¹, Iqbal Khan¹, Sean May¹, David Onion¹, Sonal Henson¹, Nadine Holmes¹, Victoria Wright¹, Adam Watkins¹*

¹University of Nottingham, Nottingham, UK. ²The University of Manchester, Manchester, UK.

266. From the flow hood to the kitchen table: A case study on changing the workspace in Clinical Embryology*Millie Kanani, Emma Whitney*

The Evewell, London, UK.

RF3 Rapid Fire Poster Session**28. Differential expression of RNA in human sperm separated into normozoospermia and asthenozoospermia groups**

Sarah Waite, Nour AlQallaf, Steven Reynolds

Faculty of Health, University of Sheffield, Sheffield, UK.

315. Comparison of live birth rates following single blastocyst transfer using GnRh agonist versus hCG trigger – a multicentre retrospective studyTeresa Joseph¹, Alison Richardson², Victoria Sephton³, Amy Barrie⁴, Mohammed Khairy⁵, Adam Balen^{6,7}, Tom Bamford¹¹Care Fertility, Manchester, UK. ²Care Fertility, Northampton, UK. ³Care Fertility, Chester, UK. ⁴Care Fertility, Liverpool, UK. ⁵Care Fertility, Birmingham, UK. ⁶Care Fertility, Leeds, UK. ⁷Leeds Centre of Reproductive Medicine, Leeds, UK.**132. miRNA 151a – exposing a conserved contender in implantation: incorporating a flow based approach**

Zenab Butt, Haidee Tinning, Jessica Edge, Niamh Forde

University of Leeds, Leeds, UK.

72. The influence of female age and endometrial thickness on endometrial receptivityDaniela Bakalova¹, Jose Antonio Castellón²¹Igenomix (part of Vitrolife Group), Guildford, UK. ²Igenomix (part of Vitrolife Group), Valencia, Spain**155. Assessment of an immunological sperm separation method for use in bulls**

Alexandra Shattock, Clara De Pascale, Fataneh Ghafari, Richard Piercy, Ali Fouladi-Nashta

Royal Veterinary College, London, UK.

SP1A ARCS Andrology Iwan Lewis-Jones Prize Session**46. Semen analysis outcomes of varicocele repair in non-obstructive azoospermic patients**Isabel Dighero¹, Giovanni Chiaraco¹, Anthony Emmanuel², Majid Shabbir², David Ralph¹, Philippa Sangster¹¹University College London Hospital, London, UK. ²Guy's and St Thomas' NHS Foundation Trust, London, UK.**240. Comparison of rapid sperm freezing to a novel vitrification method**Anita Tran¹, Alison Campbell², Giles Watts¹, Sue Montgomery²¹Liverpool John Moore's University, Liverpool, UK. ²Care Fertility, Manchester, UK.**163. Obese and overweight sperm donors; do high BMIs impact recipient outcome?**Louise Kellam¹, Georgia Manley², Anna Brodie³, Mario Fernandez⁴, Zoe Barnikel¹, Natasha Flood⁵, Chloe Gilfillan⁶, Alison Campbell¹, Amy Barrie¹¹Care Fertility, Nottingham, UK. ²Care Fertility, Bath, UK. ³Care Fertility, London, UK. ⁴IVF-Life, Alicante, Spain.⁵Care Fertility, Tunbridge Wells, UK. ⁶Care Fertility, Leeds, UK.**140. The Battle of the computer-assisted semen analysis (CASA) systems**Andrew Thomson^{1,2}, Madison Bailey¹, Teodora Popa^{2,1}, Chloe He^{3,4}, Oana Paun¹, Hannah Coffey¹, Katie Rankin¹, Christina Hancock¹, Ahmed Amer^{4,5}, Lynae Brayboy⁴, Rufus Morgan¹, Alexa Zapeda¹, Rami Wakim¹, Muhammad Fatum^{1,2}, Cristina Hickman¹¹Avenues Centre for Reproductive Health, London, UK. ²UCL Institute for Women's Health, London, UK. ³Wellcome/EPSCRC Centre for Interventional and Surgical Sciences, UCL, London, UK. ⁴Ovom Care, Berlin, Germany. ⁵My Fertility, London, UK.**302. Males at risk of recurrent miscarriage can be accurately identified using a combination of alkaline and neutral sperm DNA fragmentation damage comet assays**Rebecca Lunt¹, Emily Newton¹, Craig Ledgerwood², Lynsey Poots², Lewis Rae², Rachel Gregoire¹, Andrew Drakeley^{1,3}, Tara Moore²¹Hewitt Fertility Centre, Liverpool Women's NHS Foundation Trust, Liverpool, UK. ²Examen, Belfast, UK. ³University of Liverpool, Liverpool, UK.

SP1B BFS Early Career Clinician Prize Session

190. Female Fertility and Fertility Preservation: The Male Perspective

Andrew Downey^{1,2}, Louise Glover^{1,2,3}, David Crosby^{1,4,2}

¹Merrion Fertility Clinic, Dublin, Ireland. ²University College Dublin, Dublin, Ireland. ³Trinity College Dublin, Dublin, Ireland. ⁴National Maternity Hospital, Dublin, Ireland

318. The use of Machine Learning to predict Assisted Reproductive Technology treatment outcomes

Ognjen Radojicic¹, Jennifer Barcroft², Ruben Colindres Zuehlke¹, Raashi Shah¹, Ayomide Lawal¹, Sarah Bowden², Marc Chadeau-Hyam¹, Sotirios Saravelos², Annabel Rattos², Sabrina A. Rodrigues¹, Monica Mittal²

¹Imperial College London, London, UK. ²Imperial College Healthcare NHS Trust, London, UK.

344. The Hidden Hazards of IVF: Are hospitalisations unseen and under-reported?

Katrina Sherlock, Neerujah Balachandren, Stuart Lavery, Shirin Khanjani

University College London Hospital, London, UK.

337. Increased inflammation and altered immune function: novel findings in bone marrow adipose tissue from a pre-clinical model of polycystic ovary syndrome (PCOS)

Riada McCredie^{1,2}, Giovanni Levate¹, Megan Fenwick¹, Mick Rae³, Katarzyna Siemienowicz³, Colin Duncan¹

¹University of Edinburgh, Edinburgh, UK. ²NHS Lothian, Edinburgh, UK. ³Edinburgh Napier University, Edinburgh, UK.

47. The association between periconceptual maternal dietary patterns and miscarriage risk in women with recurrent miscarriages: a multicentre cohort study

Yaelin Chung¹, Pedro Melo², Christina Easter¹, Malcolm Price³, Rima Smith¹, Siobhan Quenby⁴, Adam Devall¹, Arri Coomarasamy¹

¹University of Birmingham, Birmingham, UK. ²University of Oxford, Oxford, UK. ³Canadian University Dubai, Dubai, UAE. ⁴S.Quenby@warwick.ac.uk, Coventry, UK.

45. On the varicocele enigma: semen analysis outcomes in patients undergoing varicocele repair via surgical ligation or embolization

Isabel Digheero, Jessica Caterson, Richard Hesketh, Jungwoo Kang, Salsabeel Kazi, Ali Paysar, David Ralph, Miles Walkden, Philippa Sangster

University College London Hospital, London, UK.

SP1C Nursing and Psychosocial Including BFS Nurse Prize Session

94. Artificial intelligence (AI) and digital health technology in fertility clinics: current practices, willingness and intentions for future implementation

Bola Grace¹, Karin Hammarberg², Julie Morgan³, Giuliana Baccino⁴, Jakub Dejewski⁵

¹UCL EGA Institute for Women's Health, University College London, London, UK. ²School of Public Health and Preventive Medicine, Monash University, Melbourne, Australia. ³Assisted Reproduction and Gynaecology Centre (ARGC), London, UK. ⁴NewLifeBank, Madrid, Spain. ⁵The European Fertility Society, Eye, UK.

67. How does nurse-led sedation in reproductive medicine compare with nurse-led sedation in other medical specialties?

Andreia Trigo^{1,2}, Dr Martin Lees¹, Dr Craig Cook¹

¹SedateUK, London, UK. ²Enhanced Fertility, London, UK.

128. Developing a safe and inclusive protocol for fertility treatment in patients with high body mass index (BMI): a collaborative approach

Christina Hancock¹, Teodora Popa^{1,2}, Chloe He³, Katie Rankin¹, Lauren Ryan¹, Ahmed Amer⁴, Lynae Brayboy⁴, Madison Bailey¹, Andrew Thomson^{1,2}, Oana Paun¹, Hannah Coffey¹, Rufus Morgan¹, Alexa Zapeda¹, Rami Wakim¹, Muhammad Fatum^{1,2}, Cristina Hickman¹

¹Avenues Centre for Reproductive Health, London, UK. ²UCL Institute for Women's Health, London, UK.

³Wellcome/EPSCRC Centre for Interventional and Surgical Sciences, London, UK. ⁴Ovom Care, Berlin, Germany

303. Demographic characteristics, motivations, experiences, and attitudes of oocyte donors towards anonymity and post-donation relationships with donor-conceived offspring: a systematic review

Magdalini Ballhysa¹, Vasanti Jadv², Chiara Fusco³

¹University College London, London, UK. ²City University of London, London, UK. ³Department of Psychology, University of Milan-Bicocca, Milano, Italy

260. "Male Infertility: An overlooked issue? Addressing awareness, ethnicity and information gaps in fertility care" – A prospective survey

Vedhapriya Sudhakar¹, Neelam Potdar^{1,2}, Thirthahalli Girish¹

¹University Hospitals of Leicester NHS Trust, Leicester, UK. ²University of Leicester, Leicester, UK.

221. Evaluating the role of the microbiome in fertility: awareness, practices, and beliefs among professionals and patients

Julie Morgan¹, Ro Huntriss², Jakub Dejewski³, Katarzyna Zakrzewska³

¹Assisted Reproduction & Gynaecology Centre, London, UK. ²Fertility Dietitian UK, London, UK. ³The European Fertility Society, Dublin, Ireland

SP1D ARCS Pre-Reg Jean Purdy Prize Session

93. Giving patients the option to take home unused embryos

Amy Wanless, Dr Morven Dean, George Hughes, Anne Chien, Dr Sarah Martins Da Silva
NHS Tayside, Dundee, UK.

97. Clinical outcomes and morphokinetic development from pronuclear vitrification: a retrospective study

Emily St John Jones, Jocelyn Hunter, Bonnie Collins

St Bartholomew's Centre for Reproductive Medicine, London, UK.

242. Comparison of recovery rates between manual and automated vitrification using simulation beads

Hannah Cleaver¹, Alison Campbell², Giles Watts¹, Sue Montgomery²

¹Liverpool John Moore's University, Liverpool, UK. ²Care Fertility, Manchester, UK.

187. Successful frozen embryo transfer following contamination of a sibling embryo with *Candida dubliniensis* during a fresh IVF cycle

Kayleigh Edwards, Lauren Mackle

TFP Belfast Fertility, Belfast, UK.

51. Fresh vs frozen: how do donor and autologous oocyte cycles compare?

Neringa Karpaviciute^{1,2}, Caroline Drew², Chloe He³, Sarah Arrowsmith¹

¹Manchester Metropolitan University, Manchester, UK. ²Care Fertility, Bath, UK. ³University College London, London, UK.

153. Clinical pregnancies following 74 mosaic embryo transfers

Zoe Barnikel¹, Lucy Jenner², Sharon Corcoran³, Iria Castro⁴, Gina Aldis⁵, Melanie Evison⁶, Steven Eaton⁷, Caroline Drew⁸, Laura Carreto Ficher⁹, Natalie Scott¹⁰, Amy Barrie², Alison Campbell²

¹Care Fertility, Nottingham, UK. ²Care Fertility, Central, UK. ³Care Fertility, Dublin, Ireland. ⁴Care Fertility, London, UK. ⁵Care Fertility, Birmingham, UK. ⁶Care Fertility, Woking, UK. ⁷Care Fertility, Northampton, UK. ⁸Care Fertility, Bath, UK. ⁹Care Fertility, Tunbridge Wells, UK. ¹⁰Care Fertility, Chester, UK.

SP1E SRF PhD Prize Session

88. Asprosin as a new obesity-related mediator in hypothalamic signalling for female reproduction: insights from in vivo hypothalamic expression in diet-induced obese mice and in vitro GT1-7 neuron regulation studies

Dominika Wachowska^{1,2,3}, Kinga Przybylska^{4,2}, Urszula Nowak¹, Christelle Ramé³, Patrycja Kurowska¹, Natalia Respekta-Długosz^{1,2}, Jean-Philippe Dubois³, Edyta Rytelewska¹, Martine Migaud³, Anna Błasiak⁴, Joëlle Dupont³, Agnieszka Rak¹

¹Laboratory of Physiology and Toxicology of Reproduction, Institute of Zoology and Biomedical Research, Jagiellonian University, Kraków, Poland. ²Doctoral School of Exact and Natural Sciences, Jagiellonian University, Kraków, Poland. ³INRAE, UMR85, Unité Physiologie de la Reproduction et des Comportements, Nouzilly, France. ⁴Department of Neurophysiology and Chronobiology, Institute of Zoology and Biomedical Research, Jagiellonian University, Kraków, Poland

238. Modelling macrophage-endometrial interactions in vitro in the human endometrium

Isabel Paterson, Elizabeth Mann, Peter Ruane, John Aplin
The University of Manchester, Manchester, UK

49. Proteomic insights into the role of omentin-1 in porcine anterior pituitary cell function and signalling pathways

Natalia Respekta-Długosz^{1,2}, Karolina Pich^{1,2}, Edyta Rytelewska¹, Aleksandra Greggio¹, Bianka Świdarska³, Agata Malinowska³, Nina Smolińska⁴, Joëlle Dupont⁵, Agnieszka Rak¹

¹Laboratory of Physiology and Toxicology of Reproduction, Institute of Zoology and Biomedical Research, Jagiellonian University, Krakow, Poland. ²Doctoral School of Exact and Natural Sciences, Jagiellonian University, Krakow, Poland. ³Mass Spectrometry Laboratory, Institute of Biochemistry and Biophysics PAS, Warszawa, Poland. ⁴Department of Animal Anatomy and Physiology, Faculty of Biology and Biotechnology, University of Warmia and Mazury, Olsztyn, Poland. ⁵INRAE, Physiologie de la Reproduction et des Comportements, Nouzilly, France

129. Extracellular vesicles from different endometrial receptivity states influence the early embryo transcriptome

*Noor Bafana*¹, Lewis Quayle^{1,2}, Kasun Godakumara³, Amber Hart¹, Subhashini Muhandiram³, Paul Heath¹, Alireza Fazeli^{1,3}

¹The University of Sheffield, Sheffield, UK. ²Sheffield Hallam University, Sheffield, UK. ³Estonian University of Life Sciences, Tartu, Estonia

185. Comparative analysis of testicular organoids derived from cryopreserved vs. fresh tissue for fertility preservation

Rajwa Mecca, Emily Davis, Celine Jones, Iryna Ivanova, Marta Kolad, Kevin Coward
University of Oxford, Oxford, UK

123. Development and characterisation of novel FSHR inhibitors: potential therapeutic applications in contraception and menopause management

*Ruijuan Xu*¹, Uchechukwu Agwuegbo¹, Hanh Duyen Tran^{2,1}, Sumetha Sureshkumar^{2,1}, George Bousfield³, Kim Jonas¹

¹King's College London, London, UK. ²St George's University of London, London, UK. ³Wichita State University, Kansas, USA

PW3 Poster Walk

237. Importance of fertility awareness in Africa: A systematic literature review exploring fertility knowledge, attitudes, and behaviours in African population groups

*Nafisat Usman*¹, Charlene Tlagae², Bola Grace²

¹Department of Community Medicine, Kaduna State University, Kaduna, Nigeria. ²UCL EGA Institute for Women's Health, Faculty of Population Health Sciences, University College London, London, UK.

195. An observational study of the association between treatment protocol and pregnancy outcomes for 19,822 frozen embryo transfers

Pooja Desai¹, Treasa Joseph², Mohammed Khairy³, Alison Richardson⁴, Victoria Sephton⁵, Adam Balen⁶, Prof Arri Coomarasamy⁷, Rima Smith⁸, Tom Bamford²

¹Care Fertility, Cardiff, UK. ²Care Fertility, Manchester, UK. ³Care Fertility, Birmingham, UK. ⁴Care Fertility, Northampton, UK. ⁵Care Fertility, Liverpool, UK. ⁶Care Fertility, Leeds, UK. ⁷University of Birmingham, Birmingham, UK. ⁸NHS-University of Birmingham, Birmingham, UK.

270. HSGAssistant: a system for predicting fallopian tube blockage by integrating multiscale features from hysterosalpingography data

Qiufeng Yi, Xiazhen Xu, Chenyang Wang, Jiaqi Ye, Karl D Dearn, Amir Hajiyavand
University of Birmingham, Birmingham, UK.

96. Euploid blastocysts that lead to Live birth have an optimal surface area, diameter and optimal pace of development

Rabi Ahmed-Odia¹, Suzanne Cawood¹, Carleen Heath¹, Jara Ben-Nagi¹, Wael Saab¹, Stathis Theodorou¹, Paul Serhal¹, Alexa Zepeda², Pedro Pini³, Klaus Wiemer⁴, Cristina Hickman⁵

¹CRGH, London, UK. ²Fairtility Ltd, Rotterdam, Netherlands. ³Fairtility Ltd, Buenos Aires, Argentina. ⁴Fairtility, Seattle, USA. ⁵Fairtility Ltd, London, UK.

346. Outcome of testicular sperm retrieval in obstructive and non-obstructive azoospermia

Rachel Mackie, Nadia Standing, Anna Vassiliou, Alex Murphy, Sameer Poselay, Sheryl Homa
Andrology Solutions, London, UK.

78. Does Dynescan technology have clinical potential for analysing human semen parameters?

Rachel Myles
NHS Tayside, Dundee, UK.

136. High environmental contaminant load is associated with CATSPERZ downregulation and may impact stallion fertility

Hannah Perkins, Adam Blanchard, Nathan Archer, Imogen Harris, Rebecca Blanchard
University of Nottingham, Nottingham, UK.

142. Sperm motility and cryptorchidism in a population of stud dogs: an update on 'adverse' temporal trends and its relevance to the human

Jack McCrum¹, Rebecca Blanchard¹, Rachel Moxon², Tom Lewis², David Gardner¹, Richard Lea¹

¹University of Nottingham, School of Veterinary Medicine & Science, Nottingham, UK. ²National Breeding Centre, Guide Dogs for the Blind Association, Bishop's Tachbrook, UK.

322. Measuring the male reproductive microbiome: a low biomass context

Richard Stack¹, Peter Ellis¹, Sheryl Homa², Gary Robinson¹

¹University of Kent, Canterbury, UK. ²Andrology Solutions, London, UK.

178. Effect of 35.5 GHz millimeter waves on reproductive parameters of male Wistar rat

Rohit Gautam^{1,2}, Neha Jha¹, Anuj Kumar Tomar¹, Taruna Arora², Jayprakash Nirala³, Paulraj Rajamani¹

¹School of Environmental Sciences, Jawaharlal Nehru University, Delhi, India. ²Division of Reproductive Childhealth and Nutrition, Indian Council of Medical Research, New Delhi, India. ³School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India

11. Pyogenic granuloma gravidarum: does it recur in subsequent pregnancies?

Ruth Goh
Faculty of Medicine, Imperial College London, London, UK.

PW4 Poster Walk**286. Investigation of effects of folate-depletion on human trophoblast stem cell regulation***Norah Fogarty¹, Cynthia Dominguez Barrera²*¹King's College London, London, UK. ²Imperial College, London, UK.**3. Calcium versus cabergoline for prevention of ovarian hyperstimulation syndrome: a systematic review and meta-analysis***Saeed Baradwan¹, Hanin Hassan Abduljabbar¹, Nabigah Alzawawi¹, Dania AlJaroudi², Ahmed Abu-Zaid³*¹Department of Obstetrics and Gynecology, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia. ²Reproductive Endocrine and Infertility Medicine Department, King Fahad Medical City, Riyadh, Saudi Arabia. ³Department of Obstetrics and Gynecology, College of Medicine, Alfaisal University, Riyadh, Saudi Arabia**19. Development of a 3D stem cell bioassay to test quality control of IVF***Kate Bohacz¹, Naki Adjirackor², Katie Harvey³, Simon Harvey⁴, Carol Trim¹, Cornelia Wilson¹*¹Canterbury Christ Church University, Canterbury, UK. ²Guerbet, London, UK. ³Open University, Milton Keynes, UK.⁴University of Greenwich, Chatham, UK.**167. Temporal trends in sperm concentration: a contrasting perspective from a single-centre review***Ciara Nolan¹, Aisling Looney², Hayley Jackson¹, David Crosby¹, Cathy Allen¹*¹Merrion Fertility Clinic, Dublin, Ireland. ²St Vincents University Hospital, Dublin, Ireland**137. Beyond the rainbow bunting: examining the realities of UK fertility care for LGBTQ+ individuals***Carolyn Wilson-Nash¹, Nour Al-Ma'ani², Jennifer Takhar³, Oluwafunmilola Salu¹, Chloe He^{4,2}*¹University of Stirling, Stirling, UK. ²Sapphic Bison, London, UK. ³ISG International Business School, Paris, France.⁴University College London, London, UK.**236. Assessing sperm settling time for optimised automated intelligent sperm analysis using MOJO AISA***Dhanush Kumar Kollu Babu¹, Shaun Rogers¹, Zoe' Simon², Daniel Thomas²*¹Mojo fertility, London, UK. ²Mojo fertility, Lyon, France**275. A study to assess the impact of duration of progesterone administration for luteal support in frozen embryo transfers in an IVF clinic on implantation and clinical pregnancy rates***Emily Bailie, Rahnuma Kazem, Alison Richardson*

CARE Fertility, Northampton, UK.

339. Ensuring future fertility: fertility preservation services for children and adolescents*Katrina Sherlock, Neerujah Balachandren, Sania Latif, Philippa Sangster, Melanie Davies, Ephra Yasmin*

University College London Hospital, London, UK.

16. Localisation and characterisation of the endocannabinoid system in the human male reproductive tract: a systematic review*Kristian Leisegang¹, Faith Moichela¹, Renata Finelli²*¹University of the Western Cape, Bellville, South Africa. ²London Women's Clinic, London, UK.**298. Impact of fertility preservation strategies on reproductive outcomes in women with BRCA1/2 mutations and breast cancer: a systematic review and meta-analysis***Suman Dadhich^{1,2}, Claire Perkins¹, Gemma Clayton¹*¹University Of Bristol, Bristol, UK. ²Aberdeen Centre of Reproductive Medicine, Aberdeen, UK.**125. Family formations in ART treatment in the UK***Abigail Ng*

Human Fertilisation and Embryology Authority, London, UK.

39. Cellular and molecular evaluation of the therapeutics potential of quercetin to reverse aspirin-induced male reproductive dysfunction

*Adebanji Akingbade*¹, Adeoye Oyewopo²

¹Ekiti State University Nigeria Ado-Ekiti Nigeria, Ado-Ekiti, Nigeria. ²University of Ilorin Nigeria., Kwara State Nigeria, Nigeria

162. Our experience in diagnosing and treating Isthmocele in previous failed in-vitro fertilization cases in a tertiary centre in Kuwait

*Agnus Moorthiraj*¹, Nahed Hammadieh²

¹North Cumbria Integrated Care NHS Foundation Trust, Carlisle, UK. ²New Mowasat Hospital, Salmiya, Kuwait

282. Efficacy, safety and acceptability of a vaginal tampon for the collection of biospecimen samples: a systematic review and meta-analysis

Aisha Anwar^{1,2}, Stephanie Girgis¹, Florence Turner¹, Nicola Tempest^{1,2}

¹University of Liverpool, Liverpool, UK. ²Hewitt Fertility Centre, Liverpool, UK.

119. Differences in bull semen microbiota between different collection times

Aleksandar Cojic, Adnan Niazi, Jane Morrell

Swedish University of Agricultural Sciences, Uppsala, Sweden

273. Cross border reproductive health research 2024: global insights from patients seeking IVF treatment abroad

*Aleksander Wiecki*¹, Jakub Dejewski²

¹IVF MEDIA Ltd., Dublin, Ireland. ²The European Fertility Society, Eye, UK.

290. Improvement of mouse spermatozoa freezing at -80°C with antioxidants

*Alessia Paradiso*¹, Marcello Raspa², Renata Paoletti³, Ferdinando Scavizzi², Simone Cassetti⁴, Nicola Bernabò¹, Barbara Barboni¹

¹Department of Bioscience and Technology for Food, Agriculture and Environment, University of Teramo, Teramo, Italy. ²Institute of Biochemistry and Cell Biology (CNR-IBBC/EMMA/Infrafrontier/IMPC), National Research Council, Monterotondo Scalo, Roma, Italy. ³Plaisant s.r.l, Roma, Italy. ⁴Tecniplast S.p.A, Buguggiate, Varese, Italy

175. Impact of mycotoxin exposure during in vitro oocyte maturation on blastomere nucleation and expression of H3K27me3 in early bovine pre-implantation embryos

*Alex Faulkner*¹, Adam Benham², Ed Okello¹, Alex Charlton¹, Miguel Velazquez¹

¹Newcastle University, Newcastle Upon Tyne, UK. ²Durham University, Durham, UK.

207. The association of embryo morphokinetics and embryonic ploidy status

Alfreda Osei^{1,2}, Despoina Besi², Yulia Shtyrya², Gizem Turkay², Annabel Rattos², Monica Mittal²

¹Imperial College London, London, UK. ²Imperial College NHS Trust, London, UK.

147. Short insemination of oocytes results in comparable laboratory outcomes and improved workflow

Andrew Thomson^{1,2}, Chloe He^{1,3}, Madison Bailey¹, Hannah Coffey¹, Oana Paun¹, Teodora Popa^{1,2}, Rami Wakim^{1,4}, Muhammad Fatum^{1,2}, Alexa Zapeda¹, Lynae Brayboy⁵, Rufus Morgan¹, Ahmed Amer⁶, Katie Rankin¹, Christina Hancock¹, Lauren Ryan¹, Cristina Hickman^{1,7}

¹Avenues Centre for Reproductive Health, London, UK. ²UCL Institute for Women's Health, London, UK. ³Wellcome/EPSCRC Centre for Interventional and Surgical Sciences, UCL, London, UK. ⁴Manchester Metropolitan University, Manchester, UK. ⁵Ovom Care GmbH, Berlin, Germany. ⁶Ovom Care GmbH, Berlin, UK. ⁷Imperial College London, London, UK.

189. Development of an argumentation-based Decision Support System (DSS) for personalising IVF stimulation protocols: integrating clinical guidelines, expert insights, and patient preferences

Anna Collins

Ovom Care, Berlin, Germany

115. Re-biopsy for accurate genetic diagnosis in embryos with no DNA and non-informative results in PGT-M

Anna Fariaszewska, Mihai Calota, Xuhui Sun, Seema Dhanjal
Igenomix UK a part of Vitrolife Group, Guildford, UK.

279. Retrospective cohort study of secondary care sub-fertility referrals in the East Midlands Teaching Hospital

Saba Salim¹, Vedha Priya Sudhakar¹, Neelam Potdar^{1,2}

¹University Hospitals of Leicester NHS Trust, Leicester, UK. ²University of Leicester, Leicester, UK.

103. Evaluation of a deep-learning algorithm for embryo selection

Sabrina Bennie, Stephen Harbottle
Cambridge IVF, Cambridge, UK.

311. Morphokinetic study of embryo development based on sperm selection method using CHLOE as an artificial intelligence (AI) analysis tool

Carolina Andrés-Santé^{1,2}, Laura Serrano-Palomo², Carolina Cordero-Rosales¹, Carmen Rodríguez-Roque¹, Alvaro Almoyna-Mataix¹, Sara Ruiz-Díaz¹, Raquel García-Panadero¹, Sara Díez-de Hoz¹, Marta Manzanares-Crespo¹, Leonor Ortega-López¹, Adriana Brualla-Mora³, José Horcajadas⁴, Susana Cortés-Gallego^{1,2}

¹Clínica Tambre, Madrid, Spain. ²Fundación Tambre, Madrid, Spain. ³Fairtility, Tel Aviv, Israel. ⁴SINAE, Seville, Spain

278. Patient experience using medroxyflurane (Penthrox) inhalational analgesia within the ambulatory gynaecology setting

Jennifer Tamblyn^{1,2}, Maria Chalmers¹, Tracy Jackson¹

¹Leeds NHS Foundation Hospital Trust, Leeds, UK. ²Care Fertility, Leeds, Leeds, UK.

170. The relationship between ploidy status, female age, morphology, and day of blastulation in frozen single embryo transfers

Leo Lai¹, Benjamin Jones², Meen-Yau Thum^{2,3}, James Nicopoullou², Raef Faris², Kathryn Glynn², Timothy Bracewell-Milnes²

¹Imperial College London, London, UK. ²Lister Fertility Clinic, London, UK. ³Bournemouth University, Bournemouth, UK.

146. Access to real-time embryo development has a positive impact on overall IVF patient treatment experience

Ahmed Amer^{1,2}, Lynae Brayboy¹, Alexa Zepeda³, Teodora Popa^{3,4}, Lauren Ryan³, Chloe He^{1,5}, Katie Rankin³, Christina Hancock³, Madison Bailey³, Hannah Coffey³, Oana Paun³, Rufus Morgan³, Rami Wakim^{3,6}, Andrew Thomson^{3,4}, Muhammad Fatum^{3,4}, Cristina Hickman^{1,3}

¹Ovom Care GmbH, Berlin, Germany. ²myfertility, London, UK. ³Avenues Centre for Reproductive Health, London, UK, London, UK. ⁴UCL Institute for Women's Health, London, UK. ⁵Wellcome/EPSCRC Centre for Interventional and Surgical Sciences, UCL, London, UK. ⁶Manchester Metropolitan University, Manchester, UK.

RF4 Rapid Fire Poster Session

154. Establishment of an oviductal explant co-culture system to improve oocyte maturation success in dogs

Alexandra Shattock¹, Fataneh Ghafari¹, Niamh Forde², Richard Piercy¹, Ali Fouladi-Nashta¹

¹Royal Veterinary College, London, UK. ²University of Leeds, Leeds, UK.

85. Digital sperm motility and morphology characteristics correlate as potential predictors for two pronuclei and blastocyst formation using SiD v2

Isaac Figueroa¹, Omar Paredes^{1,2}, Alejandro Chavez-Badiola¹, Jacques Cohen¹, Giles Palmer¹, Andrew Drakeley^{1,3,4}

¹IVF2.0, London, UK. ²University of Guadalajara, Guadalajara, Mexico. ³Liverpool Women's NHS Foundation Trust, Liverpool, UK. ⁴University of Liverpool, Liverpool, UK.

122. Impact of Oocyte Quality as assessed by an AI model on morphokinetic patterns and resulting embryo scores

Carol Porta¹, Anna McLaughlin¹, Alexa Zepeda², Pedro Pini³, Klaus Wiemer⁴, Kamal Ahuja¹, Nick Macklon¹, Elena Linara-Demakakou¹

¹London Womens Clinic, London, UK. ²Fairtility, Rotterdam, Netherlands. ³Fairtility, Buenos Aires, Argentina.

⁴Fairtility, Seattle, USA

131. The use of scanning electron microscopy (SEM) on an in vitro placental spheroid model of embryonic attachment

Chloe Elliott¹, Claire Harper¹, Jasmine Morgan^{1,2}, Jayne Charnock¹

¹Edge Hill University, Ormskirk, UK. ²JEOL Imaging Centre, Ormskirk, UK.

245. The impact of calcium ionophore, for artificial oocyte activation, on embryo morphokinetics, is affected by patient age

Dominika Sadowska¹, Alison Campbell², Giles Watts¹, Sue Montgomery²

¹Liverpool John Moore's University, Liverpool, UK. ²Care Fertility, Manchester, UK.

RF5 Rapid Fire Poster Session**29. LC-MS profiling of the urine metabolome in adverse early pregnancy outcomes**

Christopher Hill¹, Andrew Davison^{1,2}, Brendan Norman¹, Marie Phelan¹, Nicola Tempest^{1,3}, Dharani Hapangama^{1,3}

¹University of Liverpool, Liverpool, UK. ²Liverpool University Hospitals NHS Foundation Trust, Liverpool, UK.

³Liverpool Women's Hospital, Liverpool, UK.

271. Enhancing clinical accuracy in vaginal microbiome quantification: a comparative evaluation of quantitative PCR and sequencing methods

Courtney Povey¹, Clement Coudereau¹, Ana Isabel Barrio Pedraza², Graciela Kohls², Elena Labarta³, Juan Antonio García Velasco², Dagan Wells^{1,4}, Antonio Capalbo⁵, Katharina Spath⁵

¹Juno Genetics UK, Oxford, UK. ²IVIRMA Global Research Alliance, Madrid, Madrid, Spain. ³IVIRMA Global Research Alliance, Valencia, Valencia, Spain. ⁴University of Oxford, Oxford, UK. ⁵Juno Genetics Italy, Rome, Italy

84. Spatial transcriptomics identifies dysregulated pathways within endometrium of adenomyosis, endometriosis and fibroids

Dania Badran, Alison Maclean, Emily Johnson, Eva Caamano-Gutierrez, Dharani Hapangama

University of Liverpool, Liverpool, UK.

145. Molecular fertilisation check in preimplantation embryos: an interplatform comparison between targeted NGS and SNP-array-based approaches

Elizabeth Verdon¹, Alyssa J Armsby¹, Daniela Bakalova¹, Laura Girardi²

¹Igenomix (part of Vitrolife Group), Guildford, UK. ²Igenomix (part of Vitrolife Group), Marostica, Italy

333. Prediction of IVF clinical outcomes using multi-modal deep learning on tabular data and ultrasound images

Mo Vali¹, Saaliha Vali², Yau Thum³, Pietro Lio⁴

¹Department of Physics, University of Cambridge, Cambridge, UK. ²Hillingdon Hospital NHS Trust, London, UK.

³The Lister Fertility Clinic, London, UK. ⁴Department of Computer Science and Technology, University of Cambridge, Cambridge, UK.

250. Alternative use of vitrification warming media to successfully thaw previously slow frozen Pronuclear (PN) human embryos

Yvonne Wilson¹, Anna Burdina¹, Eleanor Grew¹, Peter Ruane², Annette Lloyd¹

¹St Marys IVF Unit, Manchester, UK. ²Maternal and Fetal Health Research Centre Faculty of Biology, Medicine and Health The University of Manchester, Manchester, UK.

325. Considerations of fertility in elite sportswomen

Ariadne L'Heveder^{1,2}, Rachel Roberts², Amal Hassan³, Lorraine Kasaven^{1,2}, Srdjan Saso^{1,2}, Timothy Bracewell-Milnes^{1,4}, James Nicopoulos^{1,4}, Meen-Yau Thum^{1,4}, Helen O'Neill^{5,6}, Noel Pollock³, James Brown⁷, Benjamin Jones^{1,2,4}

¹Imperial College London, London, UK. ²Hammersmith Hospital, Imperial College Healthcare NHS Trust, London, UK. ³Institute of Sport, Exercise & Health, University College London, London, UK. ⁴Lister Fertility Clinic, The Lister Hospital, London, UK. ⁵Genome Editing and Reproductive Genetics Group, Institute for Women's Health, University College London, London, UK. ⁶Research & Development Department Hertility Health Ltd, London, UK. ⁷National Performance Institute, British Athletics, Loughborough, UK.

22. The availability, accuracy, and uptake of home semen analysis tests

Ashleigh Holt-Kentwell^{1,2}, David McLernon², Abha Maheshwari¹

¹NHS Grampian, Aberdeen, UK. ²University of Aberdeen, Aberdeen, UK.

90. Distinct morphokinetic patterns predict viability of abnormally fertilized embryo

Balsam AL Hashimi^{1,2}, Elena Linara-Demakakou¹, Orla Green¹, Bhavna Raikundalia¹, Trina Shah¹, Darren Griffin³, Kamal Ahuja¹, Nick Macklon¹

¹London Women's Clinic, London, UK. ²University College London, London, UK. ³University of Kent, London, UK.

283. Pathology portal: a novel interactive education portal for reproductive science, clinical and veterinary medicine

*Bryan Woodward*¹, Catherine Reynolds², Esther Youd³, Luke Thrower⁴, Jo Martin⁵

¹X&Y Fertility, Leicester, UK. ²Assisted Conception Suite, Glasgow Royal Infirmary, Glasgow, UK. ³Forensic Medicine and Science, University of Glasgow, Glasgow, UK. ⁴Royal College of Pathologists, London, UK. ⁵Faculty of Medicine and Dentistry, Queen Mary University of London, London, UK.

222. Evaluating concordance between AI-based and traditional embryo selection methods: a comparative study

Rachel Shepherd, Calypso Latham, *Marta Jansa Perez*

Bridge Clinic, London, UK.

295. Does a poorer quality embryo from donor oocytes have a higher implantation potential than a better quality embryo from a patient's oocytes?

Carolina Andrés^{1,2}, Susana Alfaro³, Carolina Cordero¹, Carmen Rodriguez¹, Alvaro Almoyna¹, Rachele Pandolfi¹, Gonzalo Dominguez¹, Sara Diez¹, Marta Manzanares¹, Leonor Ortega¹, Jose A. Horcajadas^{4,2}, Susana Cortés^{1,2}

¹Clinica Tambre, Madrid, Spain. ²Fundación Tambre, Madrid, Spain. ³Universidad Carlos III, Madrid, Spain. ⁴Sinae, Sevilla, Spain

304. Enhancing microfluidic sperm sorting: The role of media in maximising progressive motility

*Sally Wood*¹, Peter Ellis¹, Max Meissner²

¹University of Kent, Canterbury, UK. ²Cytoswim, Coventry, UK.

210. Investigating the effect of embryo thaw and biopsy for ploidy status on ART outcomes

Hannah Hodgkinson¹, *Chela Smith*¹, Eleanor Albone², Sue Montgomery³, Kyriaki Andreou³, Nikolett Panagiotopoulou³

¹Liverpool John Moores University, Liverpool, UK. ²Care Fertility London, London, UK. ³Care Fertility Manchester, Manchester, UK.

156. Advances in histone methyltransferase SMYD3 control of oocyte maturation and quality

*Chiara Camerano Spelta Rapini*¹, Alessia Peserico¹, Valentina Grossi², Paola Sanese², Cristiano Simone^{2,3}, Chiara Di Berardino¹, Giulia Capacchietti¹, Barbara Barboni¹

¹Department of Bioscience and Technology for Food, Agriculture and Environment, University of Teramo, Teramo, Italy. ²Medical Genetics, National Institute of Gastroenterology, IRCCS "Saverio de Bellis" Research Hospital, 70013 Castellana Grotte, Italy, Bari, Italy. ³Medical Genetics, Department of Precision and Regenerative Medicine and Jonic Area (DiMePRE-J), University of Bari Aldo Moro, 70124 Bari, Italy, Bari, Italy

157. What factors affect intrauterine insemination outcomes?*Chloe Gibson*

University of Cambridge, Cambridge, UK.

68. The adipokine Fibronectin Domain Containing 4 (FNDC4) alters granulosa cell glucose uptake and theca cell lipid content in vitro, and inhibits follicle growth in cattle in vivoMathilde Daudon^{1,2}, Christelle Ramé², Marcos Barreta³, Alfredo Antoniazzi⁴, Valério Portela⁴, Joëlle Dupont², Christopher Price¹¹Université de Montréal, St-Hyacinthe, Canada. ²INRAE, Nouzilly, France. ³Universidade Federal de Santa Catarina, Curitiba, Brazil. ⁴Universidade Federal de Santa Maria, Santa Maria, Brazil**246. Comparison of the stages of embryo arrest in patients with and without the use of AOA***Cian Beirne¹, Alison Campbell², Giles Watts¹, Sue Montgomery²*¹Liverpool John Moore's University, Liverpool, UK. ²Care Fertility, Manchester, UK.**244. Two year experience of an in-house genetic counselling service in a fertility unit: an audit***Clair Engelbrecht, Anastasia Mania, Ippokratis Sarris*

Kings Fertility, London, UK.

326. Long-term reproductive outcomes after Fertility Preservation in women with Turner syndrome*Clara Luehwink^{1,2}, Elizabeth Burt², Zachary Nash², Melanie C Davies²*¹University of Verona, Verona, Italy. ²University College London Hospitals, London, UK.**301. Automated total cryo management platform enables new insights into patient engagement and account compliance***Colleen Lynch¹, Shawn Gonzalez², Cyndi Ng², Pranav Walimbe²*¹CooperSurgical, London, UK. ²CooperSurgical, Trumbull, USA**330. A systematic literature review and meta analysis to establish whether Rescue IVM and Rescue ICSI should be routine practice in cases of low/failed maturation and/or fertilisation***Cristina Hickman^{1,2,3}, Muhammad Fatum^{1,4}, Jyoti Taneja¹, Andrew Thomson^{1,4}, Teodora Popa^{1,4}*¹Avenues, London, UK. ²OVOM, Lisbon, Portugal. ³Imperial College, London, UK. ⁴UCL, London, UK.**253. Embryo siblingship assessment during routine preimplantation genetic testing represents an important new quality control measure, with capacity to avoid serious diagnostic errors***Dagan Wells^{1,2}, Amy Barrie³, Georgina Cutts^{1,2}, Ellissa Baskind⁴, Dhruvi Babariya¹, Alison Campbell³*¹Juno Genetics, Oxford, UK. ²University of Oxford, Oxford, UK. ³Care Fertility, Nottingham, UK. ⁴Care Fertility, Leeds, UK.**213. E-cigarettes and assisted conception: a rapid evidence review to inform a value-based clinical commissioning policy update***Daisy Howes*

Stockton Borough Council, Stockton-on-Tees, UK. Newcastle University, Newcastle Upon Tyne, UK.

159. Calabash chalk consumption during pregnancy: harmless or harmful? A systematic review*David Bahibanda, Paul McKeegan*

Hull York Medical School, Hull, UK.

219. Immune signatures of reproductive failure: a comparative analysis of unexplained recurrent implantation failure and pregnancy loss*Daxina Bhatt^{1,2}, Abdullah Shahzad², Yousef Alebrahim^{1,2}, Olivia Moran^{1,2}, Marlon Bonilla¹, Navneet Kaur^{1,2}, Jenny Myers^{1,2}, Elizabeth Mann², Lamiya Mohiyiddeen^{1,2}*¹St Mary's Hospital, Manchester, UK. ²University of Manchester, Manchester, UK.**32. Risk of cancers associated with the use of ovulation induction agents for the treatment of Infertility***Samuel Kofi Arhin*

University of Cape Coast Medical School, Cape Coast, Ghana

248. Hysterosalpingogram vs laparoscopy for diagnosis of tubal factor in female infertility*Sanjida Mahmood¹, Jitendra Jadhav¹, Ifeoluwa Ajayi², Thekla Charitou¹*¹Basildon University Hospital, Mid and South Essex NHS Foundation Trust, London, UK. ²Princess Alexandra Hospital NHS Trust, London, UK.**56. Understanding patient perceptions of emotional support and clinic culture: key factors shaping the fertility treatment experience***Sarah Banks*

Sarah Banks Coaching, Halifax, UK.

138. Tumour necrosis factor alpha in follicular fluid in women with diminished ovarian reserve*Sarah Petch^{1,2}, Andrew Downey^{1,2}, Rachel Elebert^{1,2}, Conor O'Ceallaigh¹, David Crosby^{1,2}, Louise Glover^{1,2}*¹Merrion Fertility Clinic, Dublin, Ireland. ²University College Dublin, Dublin, Ireland**73. Harnessing artificial intelligence on day 3 of development for predicting blastulation rates***Sareena Sharma¹, Alpesh Doshi¹, Chiranjeev Bhatia¹, Arati Rama Rao¹, Pedro Pini², Tom Wilkinson³, Klaus Wiemer⁴*¹IVF London, London, UK. ²Fairtality, Buenos Aires, Argentina. ³Fairtality, London, UK. ⁴Fairtality, Seattle, USA**293. The influence of ejaculation frequency on the semen quality of patients undergoing pre-oncology cryopreservation or routine diagnostic semen analysis***Sophie Hayward¹, Sarah Evans¹, Melanie Holliday², Paul Knaggs¹*¹Wales Fertility Institute, Cardiff, UK. ²Wales Fertility Institute, Swansea, UK.**343. Risk reducing elective gonadectomy in Complete Androgen Insensitivity Syndrome (CAIS) – An opportunity for fertility preservation?***Michalina Drejza, Aparna Balaji, Emily Gelson, Jane MacDougall*

Cambridge University Hospitals NHS Foundation Trust, Cambridge, UK.

RF6 Rapid Fire Poster Session**312. Isolation and characterisation of peritoneal cells from laparoscopic surgeries to model superficial endometriosis***Muhammad Dimas Reza Rahmana¹, Christopher Hill¹, Bettina Wilm¹, Dharani Hapangama^{1,2}*¹Department of Women's and Children's Health, Institute of Life Course and Medical Sciences, University of Liverpool, Liverpool, UK. ²Liverpool Women's Hospital NHS Foundation Trust, Liverpool, UK.**74. Fertility outcomes of laparoscopic transabdominal cerclage (TAC)***Navneet Kaur, Ciaran Barclay, Kingshuk Majumder, Edmond Edi-Osagie, Kenneth Ma*

Manchester University NHS Foundation Trust, Manchester, UK.

340. How reliable is the diagnosis of Adenomyosis by conventional 2D and 3D ultrasound?*Nikit Kadam^{1,2}, Somia Khalid¹, Kanna Jayaprakasan^{1,2}*¹University Hospital of Derby and Burton, Derby, UK. ²University of Nottingham, Nottingham, UK.**247. CRISPR/Cas9 mediated generation of GATA3 knockout (KO) bovine cell line models to validate the targeting efficiency of sgRNAs***Qurat Ul Ain^{1,2,3}, Afshan McCarthy⁴, Maryam Javed², Kathy Niakan⁵, Fataneh Ghafari¹, Asif Nadeem³, Ali-Fouladi Nashtha¹*¹Royal Veterinary College, University of London, London, UK. ²University of Veterinary and Animal Sciences, Lahore, Lahore, Pakistan. ³Virtual University of Pakistan, Lahore, Pakistan. ⁴The Francis Crick Institute, London, London, UK. ⁵University of Cambridge, Cambridge, UK.**257. Conceptus regulates activity of DNA methyltransferases differentially in endometrial luminal and stromal cells in the pig***Agnieszka Waclawik, Monika Zembruska, Ewelina Goryszewska-Szczurek, Kalina Szteyn, Piotr Kaczynski*

Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences, Olsztyn, Poland

SP2A BFS Young Scientist Prize Session

149. Towards single-cell embryo assessment

Chloe He^{1,2}, Neringa Karpavičiūtė³, Rishabh Hariharan⁴, Céline Jacques⁵, Koen Wouters⁶, Jonas Malmsten⁷, Nikica Zaninovic⁷, Francisco Vasconcelos¹, Cristina Hickman^{8,2}

¹University College London, London, UK. ²Ovom Care, Berlin, Germany. ³Manchester Metropolitan University, Manchester, UK. ⁴Apricity, London, UK. ⁵Apricity, Paris, France. ⁶UZ Brussel, Brussels, Belgium. ⁷Weill Cornell Medicine, New York City, USA. ⁸Imperial College London, London, UK.

10. Revealing the secrets of ovulation

Christopher Thomas^{1,2}, Tabea-Lilian Marx², Sarah Mae Penir², Melina Schuh²

¹Developmental Biology Institute of Marseille (IBDM), France, Marseille, France. ²Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany

203. The impact of ethnicity on clinical outcomes in women undergoing IVF treatment

Elhem Loukily¹, Simon Hanassab^{1,2,3}, Scott Nelson^{4,5}, Ziyad Ansari⁶, Artur Akbarov^{2,3}, Tom Kelsey⁷, Artsiom Hramyka⁷, Arthur Yeung¹, Sotirios Saravelos⁸, Rehan Salim⁸, Alexander Comninos^{1,9}, Geoffrey Trew⁵, Thomas Heinis², Waljit Dhillon^{1,9}, Ali Abbara^{1,9}

¹Department of Metabolism, Digestion, and Reproduction, Imperial College London, London, UK. ²Department of Computing, Imperial College London, London, UK. ³UKRI Centre for Doctoral Training in AI for Healthcare, Imperial College London, London, UK. ⁴School of Medicine, University of Glasgow, Glasgow, UK. ⁵Institute of Reproductive Science, The Fertility Partnership, Oxford, UK. ⁶Department of Electrical and Electronic Engineering, Imperial College London, London, UK. ⁷School of Computer Science, University of St Andrews, St Andrews, UK. ⁸Department of Fertility and Reproductive Medicine, Imperial College Healthcare NHS Trust, London, UK. ⁹Department of Endocrinology, Imperial College Healthcare NHS trust, London, UK.

114. PRMT1-mediated arginine methylation determines cell fate decision in bovine early embryonic development through glucose metabolism

Jinlong Qiu, Pedro Beltran-Alvarez, Roger Sturmey
Hull York Medical School, University of Hull, Hull, UK.

173. Evaluating the relationship between human blastocyst morphology and polygenic risk scores

Jordan O'Donnell¹, Mark Kristiansen¹, Nathan Treff², Diego Marin², Teodora Popa¹

¹University College London, London, UK. ²Genomic Prediction, Inc., New Jersey, USA

148. Promoting the quality of life of patients who end fertility treatment without a live birth: results from a multicentre two-arm randomised controlled trial (RCT) of Beyond Fertility, a brief face-to-face psycho-social intervention

Mariana Sousa-Leite^{1,2}, Raquel Costa², Bárbara Figueiredo³, Jiawen Liu¹, Richard Morey¹, Sofia Gameiro¹

¹Cardiff University, School of Psychology, Cardiff, UK. ²Institute of Public Health [EPIUnit / ITR] University of Porto, Porto, Portugal. ³University of Minho, School of Psychology, Psychology Research Centre (CIPsi), Braga, Portugal

SP2B Reproductive Endocrinology and the Ovary

313. Evaluating the performance of kisspeptin as a test of hypothalamic function in women presenting with menstrual disturbance

Bijal Patel¹, Ali Abbara¹, Arthur Yeung¹, Maria Phylactou¹, Sandhi Nyunt¹, Jovanna Tsoutsouki¹, Kanyada Koysombat¹, Megan Young¹, Ambreen Qayum¹, Aaran Patel¹, Agata Zielinska¹, Anastasia Newman¹, Aureliane Pierret¹, Elisabeth Daniels¹, Yusra Omar¹, Pei Eng¹, Edouard Mills¹, Simon Hanassab¹, Channa Jayasena¹, Tricia Tan¹, Richard Quinton², Sophie Clarke³, Alexander Comninos¹, Waljit Dhillon¹

¹Imperial College London, London, UK. ²Newcastle Upon Tyne Hospitals NHS Trust, Newcastle, UK. ³University College Hospitals NHS Trust, London, UK.

100. Polycyclic aromatic hydrocarbons in human granulosa cells: first in vivo presence and positive correlation with body mass index and in vitro ovarian cell steroidogenesis regulation

Patrycja Kurowska¹, Lucille Berthet², Christelle Ramé², Małgorzata Węgiel¹, Anna Maślanka¹, Fabrice Guerif², Pascal Froment², Joëlle Dupont²

¹Jagiellonian University, Krakow, Poland. ²INRAE, Nouzilly, France

50. FOXL2 ablation disrupts ovarian cell fate by remodelling sex-specific gene regulatory networks and results in testis-like reprogramming of adult ovaries

Michelle Neumann¹, Richard Mitter², Christophe Galichet¹, Silvana Guioli¹, Manon Lesage³, Violette Thermes³, Robin Lovell-Badge¹, Roberta Migale¹

¹Laboratory of Stem Cell Biology and Developmental Genetics, The Francis Crick Institute, London, UK.

²Bioinformatics core, The Francis Crick Institute, London, UK. ³INRAE, Fish Physiology and Genomics Institute, Rennes, France

118. ZIP9, a zinc importer and membrane androgen receptor, is essential for female reproduction in zebrafish

Rui Wang¹, Ruijuan Xu², Robert Hindges³, Kim Jonas², Christer Hogstrand⁴

¹Department of Nutrition Science, King's College London, London, UK. ²Department of Women & Children's Health, King's College London, London, UK. ³Centre for Developmental Neurobiology, King's College London, London, UK. ⁴Department of Analytical, Environmental & Forensic Sciences, King's College London, London, UK.

241. Molecular evolution of adipose tissue dysfunction in polycystic ovary syndrome (PCOS)

Yuan Wang¹, Giovanni Levate¹, Mick Rae², Colin Duncan¹, Katarzyna Siemienowicz²

¹University of Edinburgh, Edinburgh, UK. ²Edinburgh Napier University, Edinburgh, UK.

228. Could analysis of FSHR gene splicing variants have a role in predicting ovarian response to stimulation and personalising treatment?

Zeynep Gunes¹, Dagan Wells^{1,2}

¹University of Oxford, Oxford, UK. ²Juno Genetics, Oxford, UK.

SP2C Advances in Reproductive Science

227. Oxidative stress and metabolic alterations induced by nano-microplastics (NMPs) in human granulosa cells

Andrea Bianchi, Giovanni Casoli, Teresa Vergara, Martina Placidi, Carla Tatone, Giovanna Di Emidio
University of L'Aquila, L'Aquila, Italy

53. Mosaicism reporting in PGT-A does not significantly improve clinical outcomes: European multisite, mosaicism non-selection/blinded study including 4293 embryo transfers

Dhruti Babariya¹, Pavan Gill², Christian Simon Ottolini^{3,4}, Francesca Mulas³, Ludovica Picchetta³, Silvia Caroselli³, Emily Mounts⁵, Vanessa Vergara Bravo⁶, Antonio Raquena Miranda⁶, Antonio Pellicer⁷, Juan Antonio Garcia Velasco⁶, Yiping Zhan⁵, Chaim Jalas⁵, Antonio Capalbo^{3,8}

¹Juno Genetics, Oxford, UK. ²IVIRMA, New Jersey, USA. ³Juno Genetics, Rome, Italy. ⁴University College London, London, UK. ⁵Juno Genetics, New Jersey, USA. ⁶IVIRMA, Madrid, Spain. ⁷IVIRMA, Rome, Italy. ⁸University of Chieti-Pescara, Chieti, Italy

71. Reducing mosaic aneuploidy at the first mitotic division of human embryos

Cerys Currie^{1,2}, Aleksandra Bryska^{1,2}, Deborah Taylor³, Muriel Erent^{1,2}, Daniela Bakalova⁴, Xuhui Sun⁵, Richard Anderson^{6,7}, Adele Marston^{6,8}, Geraldine Hartshorne^{1,3}, Andrew McAinsh^{1,2}

¹University of Warwick, Coventry, UK. ²Centre for Mechanochemical Cell Biology, Coventry, UK. ³Coventry Centre for Reproductive Medicine, Coventry, UK. ⁴iGenomix R&D, Valencia, Spain. ⁵iGenomix UK, Guildford, UK.

33. Advancing maternal age and absence of meiotic recombination are risk factors for ploidy abnormalities in human conceptions

Christian Simon Ottolini^{1,2}, Ludovica Picchetta¹, Xin Tao³, Emily Mounts³, Francesca Mulas¹, Silvia Caroselli¹, Thomas Molinaro⁴, Christine Whitehead⁴, Yiping Zhan³, Chaim Jalas³, Antonio Capalbo^{1,5}

¹Juno Genetics, Rome, Italy. ²University College London, London, UK. ³Juno Genetics, New Jersey, USA. ⁴IVIRMA, New Jersey, USA. ⁵University of Chieti-Pescara, Chieti, Italy

52. Inflammation of the endometrium, mimicked using TNF α -stimulated Ishikawa cells, causes a dose-dependent decrease in model embryo-endometrial attachment through impaired HOXA10 expression

Verity Jennings-McLaughlin, Freya Brocklebank, Jayne Charnock, *Claire Harper*

Edge Hill University, Ormskirk, UK.

7. A new potential pathological mechanism for thin endometria

Tian-liu Peng

Peking University Third Hospital, Beijing, China

SP2D ARCS Post Reg Prize Session

61. Three's a crowd: unpacking the viability of 2.1PN embryos

*Alice Royle*¹, Aurora Ratkoceri², Millie Kanani¹, Emma Whitney¹, Colin Davis¹

¹The Evewell, London, UK. ²University of Leicester, Leicester, UK.

299. Insights into embryo biopsy practice in UK and Ireland

Colleen Lynch

CooperSurgical, London, UK.

281. Genotyping blastocysts derived from abnormally fertilised oocytes through PGT can increase the number of euploid embryos available for transfer

Lourdes Muriel, Eleanor Gallegos, Mireia Galian, Patricia Fadon

IVI London, London, UK.

294. Proteomic assessment of the pre-implantation environment using a fallopian organoid model

Mollie McGrane-Ewen^{1,2}, Mohannad Alkasi², Rachel Gregoire³, Daniel Brison², Roger Sturme⁴, Peter Ruane²

¹The Hewitt Fertility Centre, Liverpool Women's Hospital, Knutsford, UK. ²The University of Manchester, Manchester, UK. ³The Hewitt Fertility Centre, Liverpool Women's Hospital, Liverpool, UK. ⁴Hull York Medical School, York, UK.

220. Blastocysts that develop from monopronucleated zygotes should not be discarded by default but should be subjected to genetic testing to clarify their ploidy status

*Sharn Perry*¹, Safira Batha¹, James Nicopoulos¹, Kathryn Glynn¹, Dagan Wells², Dhruti Babariya², Georgina Cutts²

¹Lister Fertility, London, UK. ²Juno Genetics, Oxford, UK.

214. Evaluating the effect of warming blastocysts vitrified in cook media in gems warming media and the introduction of Gems media into a successful vitrification programme

*Suzanne Cawood*¹, Xavier Brunetti¹, Rabi Odia², Efsthios Theodorou¹

¹CRGH Portland, London, UK. ²CRGH City, London, UK.

SP2E Embryo and Embryo Transfer

262. A day early Embryo transfer in natural cycles is comparable to on-time transfer

*Eliyahu M Heifetz*¹, Naama Srebnik², Ido Gal², Keren Rotshinker-Olshinka², Ben-Ami Ido²

¹JCT – Lev Academic Center, Jerusalem, Israel. ²Shaare Zedek Medical Center IVF unit, Jerusalem, Israel

106. Should we be transferring morulae and early blastocysts in a fresh cycle? – A retrospective study

Devesh Bapat, Simona Dimova, Rachel Gibbons, Kuga Vigneswaran, Anastasia Mania

King's Fertility, London, UK.

168. Clinical experience with a PGT-A strategy in which embryos with euploid or mosaic results are not differentiated and given equal priority for transfer

Kathryn Glynn¹, Dagan Wells², Georgina Clark², Dhruvi Babariya², Safira Batha¹, James Nicopoulos¹

¹Lister Fertility Clinic, London, UK. ²Juno Genetics UK, Oxford, UK.

338. Levels of mitochondrial DNA heteroplasmy, occurring as a side effect of meiotic spindle transfer, can experience large fluctuations prior to birth with implications for the use of mitochondrial replacement therapies

Munuse Savash¹, Katharina Spath², Dagan Wells^{1,3}, Nuno Costa-Borges⁴

¹University of Oxford, Oxford, UK. ²Juno Genetics, Rome, Italy. ³Juno Genetics, Oxford, UK. ⁴Embryotools, Barcelona, UK.

171. Impact of repeated vitrification and biopsy on clinical outcomes: a comparative study of once-frozen and thaw-biopsy-refreeze embryos

Leo Lai¹, Benjamin Jones², Meen-Yau Thum^{2,3}, James Nicopoulos², Raef Faris², Kathryn Glynn², Timothy Bracewell-Milnes²

¹Imperial College London, London, UK. ²Lister Fertility Clinic, London, UK. ³Bournemouth University, Bournemouth, UK.

321. Exploring surgical strategies and fertility outcomes after myomectomy

Miyuki Omura, Monica Krishnan, Bolarinde Ola

Sheffield Teaching Hospitals NHS Foundation Trust, Sheffield, UK.

PW6 Poster Walk

4. The effect of sequential embryo transfer on pregnancy outcomes in patients with recurrent implantation failure: A systematic review and meta-analysis of randomized controlled trials

Saeed Baradwan¹, Hanin Hassan Abduljabbar¹, Nabigah Alzawawi¹, Majed Saeed Alshahrani², Ahmed Mohamed Abdelhakim³

¹Department of Obstetrics and Gynecology, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia. ²Department of Obstetrics and Gynecology, Faculty of Medicine, Najran University, Najran, Saudi Arabia. ³Kasralainy, Faculty of Medicine, Cairo University, Cairo, Egypt

126. AMH levels and Assisted Reproduction outcome in women aged 40-42: A comprehensive study on predictive power and treatment success using AMH-tailored COH protocols

Dimitra Apostolia Androni, Joanne Leitch, Helen Llyall

NHS Greater Glasgow and Clyde, Glasgow, UK.

334. Euploid and live birth rates of thaw biopsy refreeze embryos compared with fresh biopsied embryos

Easwarya Thavarajah, Mario Terribile, Martin Wilding

Create Fertility, London, UK.

42. Is a diagnostic laparoscopy acceptable to inform the underlying pathology of chronic pelvic pain? An online questionnaire

Eleanor Bristow, Hannah Twiddy, Dharani Hapangama, Nick Fallon, Nicola Tempest

University of Liverpool, Liverpool, UK.

239. Impact of fertility coaching: insights from patient feedback

Eleanor Wharf, Orestis Tsonis

Guy's and St Thomas' ACU, London, UK.

89. Anti-Müllerian hormone protects the human ovary from the immediate and sustained fertility damaging effects of cyclophosphamide in vitro

Emily B Walshe¹, Hazel L Stewart¹, Evelyn E Telfer², Richard A Anderson¹, Roseanne Rosario^{1,3}

¹Centre for Reproductive Health, University of Edinburgh, UK. ²Institute of Cell Biology, University of Edinburgh, UK.

³Biomedical Sciences, University of Edinburgh, UK.

297. Men attending a recurrent miscarriage clinic have high sperm DNA fragmentation damage irrespective of their semen analysis

Emily Newton¹, Rebecca Lunt¹, Craig Ledgerwood², Rachel Gregoire¹, Tara Moore², Andrew Drakeley^{1,3}

¹Hewitt Fertility Centre, Liverpool Women's NHS Foundation Trust, Liverpool, UK. ²Examen, Belfast, UK. ³University of Liverpool, Liverpool, UK.

48. Unravelling effect of hyper gravitational forces on mouse embryos

Seerat Maqsood¹, Marcello Raspa², Nicola Bernabo¹, Barbara Barboni¹

¹University of Teramo, Teramo, Italy. ²CNR IBBC, Rome, Italy

206. Comparative effects of *Ocimum gratissimum* and cyclophosphamide on haematology variables and fertility in female Wistar rats

Seyyid Shittu, Aishah Kareem, Shehu-Tijani Shittu, Yinusa Raji

University of Ibadan, Ibadan, Nigeria

230. The effect of myomectomy for FIGO Type 0 to 3 uterine fibroids on IVF/ICSI cycle

Shailja Verma¹, Saba Salim², Neelam Potdar¹

¹University Hospitals of Leicester NHS Trust, Leicester, UK. ²University Hospitals of Northamptonshire, Kettering, UK.

180. Validation and clinical implementation of an automated cryostorage platform in a large HFEA regulated fertility clinic

Shani Tatton, Rebecca Lunt, Lowri Underhill, Sofya Mahmud, Rachel Gregoire

Hewitt Fertility Centre, Liverpool, UK.

121. Analysis of health and lifestyle behaviour data from 300,065 UK-based women to analyse preconception lifestyle choices in the context of the broader female population

Zoya Ali¹, Lucinda Lawrie¹, Tharni Vasavan¹, Natalie Getreu^{1,2}, Helen O'Neill^{1,2}

¹Hertility Health, London, UK. ²University College London, London, UK.

256. Reflecting on PGT data: essential embryological and genetic insights

Emma Whitney¹, Dhruti Babariya², Georgina Cutts², Millie Kanani¹, Dagan Wells²

¹The Evewell, London, UK. ²JUNO, Oxford, UK.

17. Navigating PGT-M hurdles to provide patient options; Reference laboratory limitations and pathways

Benjamin Raybould, Vladimir Ovsyankin, Valerie Shaikly, Mohammed Taranissi

ARGC, London, UK.

9. Identifying inefficiencies and opportunities within an admission process map for the care of IVF patients who need oocyte retrieval

Lois Whelan

Hewitt Fertility Centre, Knutsford, UK.

8. Religious perspectives on medically assisted reproduction in nigeria: insights from religious leaders

Oluwatobiloba Olabode, Federica Lopes, Willem Ombelet

University of Dundee, Dundee, UK.

261. Replacing baseline ultrasound with estradiol testing prior to controlled ovarian stimulation: our experience

Ciara Nolan, David Crosby

Merrion Fertility Clinic, Dublin, Ireland

160. Virtual reality shows promise as a tool for patient education in IVF

Choni Wangmo¹, Chloe He^{1,2}, Teodora Popa^{1,3}

¹University College London, London, UK. ²Ovom Care, Berlin, Germany. ³Avenues, London, UK.

341. Fertility preservation for endometriosis: an expert panel review of clinical outcomes and referral policy development

Katrina Sherlock, Emily Vaughan, Neerujah Balachandren, Ephra Yasmin, Stuart Lavery, Melanie Davies, Ertan Saridogan, Dimitrios Mavrelos
University College London Hospital, London, UK.

307. Five years of prospective data collection for fertility preservation: service requirements analysis

Suman Dadhich, Abha Maheshwari
Aberdeen Centre of Reproductive Medicine, Aberdeen, UK.

6. Effects of letrozole alone or in combination with gonadotropins on ovulation induction and clinical pregnancy in women with polycystic ovarian syndrome: a systematic review and meta-analysis of randomized controlled trials

*Saeed Baradwan*¹, Hussein Sabban², Majed Saeed Alshahrani³, Ahmed Mohamed Abdelhakim⁴

¹Department of Obstetrics and Gynecology, King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia. ²Department of Obstetrics and Gynecology, Faculty of Medicine in Rabigh, King Abdulaziz University, Rabigh, Saudi Arabia. ³Department of Obstetrics and Gynecology, Faculty of Medicine, Najran University, Najran, Saudi Arabia. ⁴Kasralainy Faculty of Medicine, Cairo University, Cairo, Egypt

120. The effect of vaping on hormonal ovarian reserve markers in women of reproductive age in the United Kingdom

Esther Wainwright, Bríd Ní Dhonnabháin, Sofia Rodrigues Vaz, Tharni Vasavan, Natalie Getreu, *Helen O'Neill*
Hertfertility Health, London, UK.

309. The development of a new dietetic service within the local Fertility Centre

Evgenia Grand, Laurie Eyles
NHS Lothian, Edinburgh, UK.

196. Association between progesterone elevation on the day of the ovulation trigger injection and reproductive outcomes in fresh IVF cycles

*Fatima Siddiqui*¹, James Nicopoullos², Raef Faris², Meen-Yau Thum^{2,3}, Benjamin Jones², Timothy Bracewell-Milnes²

¹Imperial College London, London, UK. ²Lister Fertility Clinic, London, UK. ³Bournemouth University, London, UK.

127. Transformational change: futureproofing NHS fertility care for the people of Wales

Francesca Steyn, Paul Knaggs, Stephanie Herring, Julia Bradley, Lucy Hunt
Wales Fertility Institute, Port Talbot, UK.

201. Oxygen consumption rate during in vitro maturation of bovine oocytes – a new gold standard?

*Grace Doherty*¹, Roger Sturme^{1,2}, Paul McKeegan^{1,2}

¹University of Hull, Hull, UK. ²Hull York Medical School, Hull, UK.

27. Abnormalities in the endometrial epithelial stem/progenitor cell population and endometrial regeneration may be involved in the pathogenesis of recurrent reproductive failure

Hannan Al-Lamee^{1,2,3}, Katie Stone¹, Josephine Drury¹, Andrew Drakeley^{2,4}, Nicola Tempest^{1,2,4}, Dharani Hapangama^{1,4}

¹Department of Women's and Children's Health, Centre for Women's Health Research, Institute of Life Course and Medical Sciences, University of Liverpool, Liverpool, UK. ²Hewitt Centre for Reproductive Medicine, Liverpool, UK. ³Imperial College Healthcare NHS Trust, London, UK. ⁴Liverpool Women's NHS Foundation Trust, Liverpool, UK.

345. Is day 4 embryo selection as informative as day 5 following application of a timelapse morphokinetic algorithm specific to the day of culture

*Harriet English*¹, Sue Montgomery², Rachel Smith²

¹Edinburgh University, Edinburgh, UK. ²Care Fertility, Nottingham, UK.

251. Testing the general public's knowledge on PCOS and endometriosis; an online questionnaire

Hazel Ticehurst-James, Mia Parkin, Alice Cogger, Nicola Tempest
University of Liverpool, Liverpool, UK.

255. Improving the quality of aged oocytes through a complex replacement of cellular components*Helena Fulka*

Institute of Experimental Medicine of the Czech Academy of Sciences, Prague, Czech Republic

205. Impact of temperature fluctuations on sperm motility parameters*Hisham AlAhwany^{1,2}*, Jackson Kirkman-Brown^{1,2}, Meurig Gallagher^{1,2}¹Centre for Human Reproductive Science (ChRS), Birmingham Women's and Children's NHS Foundation Trust, Birmingham, UK. ²Centre for Human Reproductive Science (ChRS), University of Birmingham, Birmingham, UK.**116. Expression of oxytocin and prostaglandin receptors across the inner and outer layers of pregnant human myometrium***Holly Cleary*, Lorna Salvini, Christopher Hill, Dharani Hapangama

University of Liverpool, Liverpool, UK.

288. Meta-analysis comparing frozen embryo transfer versus fresh embryo transfer in assisted reproductive technology and polycystic ovary syndrome patients*Hussien Soliman*, Peter Ellis, Sally Wood

University of Kent, Canterbury, UK.

169. A retrospective study to compare outcomes of euploid embryo transfers in natural and programmed frozen embryo transfers cycles*Isla Robertson¹*, Amanda Jefferys²¹Bristol Centre for Reproductive Medicine, Bristol, UK. ²Bristol Centre for Reproductive Medicine, Bristol, UK.**215. The impact of male infertility multidisciplinary team meeting – perspective from a UK regional centre***Jack Hay¹*, *Susan Wong¹*, Theodora Stasinou¹, Raj Mathur², Ian Pearce¹, Vaibhav Modgil¹¹Andrology Unit, Manchester, UK. ²Department of Reproductive Medicine, Manchester, UK.**99. Rethinking referrals: A critical look at genetic testing for male factor infertility from 2021–2023***James Brand^{1,2}*, James Steer¹, Patrick Gordon¹, Jennifer Simmonds¹¹Leeds Teaching Hospitals NHS Trust, Leeds, UK. ²University of Manchester, Manchester, UK.**70. Dual parental periconceptional low protein diet may reduce embryo survival in mice***Jasmin Simpson¹*, Hannah Morgan¹, Adaikala Antonysunil², Kevin Sinclair¹, Adam Watkins¹¹University of Nottingham, Nottingham, UK. ²Nottingham Trent University, Nottingham, UK.**151. A comprehensive human embryo reference tool using single-cell rna sequencing data***Sophie Petropoulos*

CRCHUM, Montreal, Canada. University of Montreal, Montreal, Canada. Karolinska Institutet, Stockholm, Sweden

212. A systematic literature review of healthcare professionals' knowledge and attitudes towards fertility awareness based methods*Sophie Rickett¹*, Jacqueline Nicholls², Bola Grace²¹University College London, London, UK. ²UCL EGA Institute for Women's Health, University College London, London, UK.**134. A comparison of double dose 'step down' versus single dose FSH antagonist protocol on IVF outcomes in women with PCOS***Sophie Walter¹*, Naga Garikipati¹, Naimah Raza¹, Meurig Gallagher², Jackson Kirkman-Brown¹, Rima Dhillon-Smith², Lynne Robinson¹¹Birmingham Women's Hospital, Birmingham, UK. ²University of Birmingham, Birmingham, UK.**217. Ovarian rejuvenation: neonatal cell replacement revives age-related loss in ovarian self-organisation***Jowi Olfers^{1,2}*, *Suzannah Williams¹*, Janet Kwan¹, Ava Harrison¹, Olivia Boardman¹¹Nuffield Department of Women's & Reproductive Health (NDWRH), University of Oxford, Oxford, UK. ²University of Groningen, Groningen, Netherlands

44. Patient experience with transvaginal ultrasound in a tertiary level fertility clinic*Sweatha Ananthalingam¹, Yousef Alebrahim², Lamiya Mohiyiddeen², Laura Fitzgerald¹*¹University of Manchester, Manchester, UK. ²Manchester Foundation Trust, Manchester, UK.**RF7 Rapid Fire Poster Session****59. All suitable blastocysts undergoing genetic testing, regardless of morphological grading, should be biopsied***Nathali Guimaraes Nobrega, Nicole Gibson, Marco Gaudoin*

TFP GCRM, Glasgow, UK.

107. Birthweight trends for babies born using assisted reproductive treatments between 1991–2018: A national cohort study*Fiskani Kondowe^{1,2}, Matthew Gittins¹, Peter Clayton¹, Daniel Brison¹, Steve Roberts¹*¹University of Manchester, Manchester, UK. ²University of Malawi, Zomba, Malawi**87. Evaluating the impact of conscious sedation without controlled drugs on pain and recovery following TVOR***Tabea Haas-Heger¹, Sharief Sharaf²*¹St George's University Hospital, London, UK. ²Kingston Hospital NHS Foundation Trust, Kingston, UK.**258. Experiences of infertility-related trauma and associated care at fertility clinics***Sofia Gameiro¹, Lauren Copeland², Aleksandra Dumner¹, Derek McLaughlin³, Rachel Ross⁴, Gerry Mccluskey⁵, Iain McGowan³, Hilary Knight⁴*¹Cardiff University, Cardiff, UK. ²Cardiff Metropolitan University, Cardiff, UK. ³Queen's University Belfast, Belfast, UK. ⁴Fertility Network UK, Belfast, UK. ⁵British Infertility Counselling Association, Belfast, UK.**80. Phyllanthus amarus has an anti-fertility activity in New Zealand White buck rabbit: a preliminary investigation***Chinwe Uchechi Nwachukwu¹, Peter Kelechi Ajuogu²*¹Department of Agricultural Science Education, Alvan Ikoku Federal University of Education, Owerri Imo State, Nigeria. ²Department of Animal Science, University of Port Harcourt, Rivers State, Nigeria**RF8 Rapid Fire Poster Session****117. Disruption of the fructose transporter, Glut5, impairs steroidogenesis and energy metabolism in murine Leydig cells***Aikaterini Kallianioti¹, Guillaume Bourdon¹, Claire Chevaleyre¹, Christine Péchoux², Christelle Ramé¹, Jérôme Bourgeois³, Olivier Hérault³, Ingrid Plotton⁴, Véronique Douard⁵, Pascal Froment¹*¹CNRS, IFCE, INRAE, University of Tours, Nouzilly, France. ²University of Paris-Saclay, INRAE, AgroParisTech, GABI, Jouy-en-Josas, France. ³INSERM UMR 1069 N2C, team LNOx, University of Tours, Tours, France. ⁴Medicine and Reproductive Biology, Endocrine Biology HCL, Bron, France. ⁵University of Paris-Saclay, INRAE, AgroParisTech, Micalis Institute, Domaine de Vilvert, Jouy-en-Josas, France**263. A comparison of day 5 and 6 PGT-M embryos based on ploidy and morphology status***Candice Cheung, Inosha Bambaranda, Lara Hodges, Justin Chu*

The Fertility Partnership, Oxford, UK.

31. A UK-wide cross-sectional survey exploring current trends in progesterone testing and luteal phase support (LPS) for frozen embryo transfer (FET) cycles*Daniel Barnett*

IBSA Pharma UK, Watford, UK.

259. Estradiol-17 β regulates the porcine trophoblast cell function and gene expression*Ewelina Goryszewska-Szczurek, Monika Baryla, Piotr Kaczynski, Agnieszka Wacławik*

Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences, Olsztyn, Poland

226. The composition of uterine luminal fluid extracellular vesicle miRNA cargo differs in response to embryo competency in cattle

Haidee Tinning¹, Tiago De Bem^{2,1}, Alessandra Bridi², Rafael Sampaio², Irene Malo Estepa¹, Elton Vasconcelos¹, Ana de Ávila², Juliano Sangalli², Igor Motta², Gilmar Ataíde², Júlio de Silva², Yeda Watanabe³, Angela Gondola-Díaz⁴, Juliano da Silveria², Guilherme Pugliesi², Flávio Meirelles², Niamh Forde¹

¹University of Leeds, Leeds, UK. ²Universidade de São Paulo, Pirassununga, Brazil. ³Nitrogen, Cravinhos, Brazil.

⁴University of Florida, Gainesville, USA

SP3A Clinical Management

306. Obstetric and perinatal outcomes in women with turner syndrome: a systematic review and meta-analysis

Alicia Walker¹, Zachary Nash^{2,3}, Hajra Khattak^{3,4,5,6}, Bassel Wattar^{7,8}, Aviva Petrie⁹, Melanie Davies^{2,3}

¹University College London Medical School, London, UK. ²University College London Hospital, London, UK. ³EGA Institute for Women's Health, UCL, London, UK. ⁴Barnet Hospital, The Royal Free London NHS Foundation Trust, Barnet, UK. ⁵Sandwell and West Birmingham Hospitals NHS Trust, Birmingham, UK. ⁶University of Warwick, Coventry, UK. ⁷Beginnings Assisted Conception Unit, Epsom and St Helier University Hospital, London, UK. ⁸Comprehensive Clinical Trials Unit, Institute for Clinical Trials and Methodology, UCL, London, UK. ⁹Eastman Dental Institute, UCL, London, UK.

291. Relationship between ovarian follicle size and embryological and clinical outcomes: optimal timing for final maturation trigger

Danielle Wagstaff^{1,2}, Sue Montgomery³, Alison Richardson⁴

¹Liverpool John Moores University, Liverpool, UK. ²Care Fertility, Liverpool, UK. ³Care Fertility, Manchester, UK. ⁴Care Fertility, Northampton, UK.

75. The incidence of childhood cancers following fertility treatment: an umbrella review

Lorraine Kasaven¹, Jen Barcroft², Benjamin P. Jones³, Karen Grewal², Jara Ben Nagi¹, Joseph Yazbek², Srdjan Saso², Jan Verbakel⁴

¹Centre for Reproductive and Genetic Health, London, UK. ²Queen Charlotte's and Chelsea Hospital, London, UK.

³The Lister Fertility Clinic, London, UK. ⁴KU Leuven, Leuven, Belgium

135. A comparison of Utrogestan © versus Cyclogest © for luteal phase support in assisted reproduction treatment: A multicentre cohort study

Mohammed Khairy Mahmoud¹, Rima Dhillon-Smith², Tom Bamford³, Arri Coomarasamy^{2,1}

¹CARE Fertility, Birmingham, UK. ²Birmingham University, Birmingham, UK. ³CARE Fertility, Manchester, UK.

SP3B the Maternal-Fetal Interface

267. Macrophage-stromal cell crosstalk in the uterus is dynamic throughout reproductive cycles

Abdullah Shahzad¹, Olivia Moran¹, Yousef Alebrahim², Daxina Bhatt¹, Jenny Myers¹, I-Hsuan Lin¹, Lamiya Mohiyideen², Matthew Hepworth¹, Douglas Dyer¹, Elizabeth Mann¹

¹University of Manchester, Manchester, UK. ²NHS, Manchester, UK.

276. Exogenous melatonin ameliorates embryo-maternal cross-talk during early pregnancy in sheep

Irene Viola¹, Cecilia Sosa², Paolo Accornero¹, Isabella Manenti¹, Francisco Canto³, Silvia Miretti¹, José Alfonso Abecia³, Paola Toschi¹

¹Dep. Veterinary Science, University of Turin, Grugliasco, Turin, Italy. ²Department of Biochemistry and Cell and Molecular Biology, Faculty of Veterinary Medicine, University of Zaragoza, Zaragoza, Spain. ³Environmental Science Research Institute (IUCA), Faculty of Veterinary Medicine, University of Zaragoza, Zaragoza – Spain, Zaragoza, Spain

104. Defining changes in immune cell composition in a mouse model of endometrial repair

Rebecca Ainslie, Phoebe Kirkwood, Julia Li, Ioannis Simitsidellis, Douglas Gibson

University of Edinburgh, Edinburgh, UK.

110. Androgenic uterotrophic responses are mediated via AR-dependent production of Igf1 in stromal fibroblasts

Samira Blanke, Ioannis Simitsidellis, Rebecca Ainslie, Phoebe Kirkwood, Douglas Gibson
University of Edinburgh, Edinburgh, UK.

SP3C Frontiers in Andrology

231. The role of SIRT7 in male meiosis and reproductive aging

Anna Guitart-Solanes¹, Mayra Romero², Irene Fernandez-Duran¹, Bryan A Niedenberger³, Ignasi Roig^{4,5}, Christopher B Geyer^{3,6}, Alejandro Vaquero¹, Karen Schindler², Berta N Vazquez^{4,1}

¹Chromatin Biology Laboratory, Josep Carreras Leukaemia Research Institute (IJC), Badalona, Spain. ²Department of Genetics, Rutgers University, Piscataway, NJ, USA. ³Department of Anatomy and Cell Biology, Brody School of Medicine, East Carolina University, Greenville, NC, USA. ⁴Department of Cell Biology, Physiology, and Immunology, Universitat Autònoma de Barcelona (UAB), Cerdanyola del Vallès, Spain. ⁵Genome Integrity and Instability Group, Institut de Biotecnologia i Biomedicina, Cerdanyola del Vallès, Spain. ⁶East Carolina Diabetes and Obesity Institute at East Carolina University, Greenville, NC, USA

172. Comparative evaluation of oxidative stress measurement techniques: semen redox potential vs. reactive oxygen species in assessing sperm quality and DNA integrity

Bazilah Mazlan¹, Marie Claire Aquilina^{1,2}, Peter Ellis¹, Sheryl Homa³

¹School of Biosciences, University of Kent, Canterbury, UK. ²Logixx Pharma, Reading, UK. ³Andrology Solutions, London, UK.

164. Dexamethasone as a fertility protectant against cisplatin-induced damage in the human immature testis

Grace Forsyth, Emma Kearney, Rod Mitchell
University of Edinburgh, Edinburgh, UK.

198. Mitochondrial priming in human GCT cell lines is dependent on MCL1 and BCLX

Sirli Anniko, Krzysztof Poterlowicz, Sherif El-Khamisy, Peter Nicholls
University of Bradford, Bradford, UK.

SP3D Cell Communication and Reproductive Toxicology

64. Oncological safety of ovarian stimulation and fertility outcomes of early-stage endometrial cancer patients treated with LND-IUS

Stavroula Kastora¹, Dhivya Chandrasekaran², Radha Graham², Nicola MacDonald², Ephraim Yasmin¹

¹Reproductive Medicine Unit, University College London Hospital, London, UK. ²Gynaecological Oncology Dept, UCLH, London, UK.

269. Modulation of TGF- β signalling by Doxorubicin in the pluripotent human embryonal carcinoma cell line NTERA-2

Khaled Habas, Mehwish Fida, Diana Anderson, Martin Brinkworth
University of Bradford, Bradford, UK.

144. The impact of in utero exposure to cancer treatments on foetal reproductive development and future fertility: a systematic review

Elinor Sebire¹, Norah Spears², Agnes Stefansdottir²

¹The University of Aberdeen, Aberdeen, UK. ²The University of Edinburgh, Edinburgh, UK.

265. Endometrial gland-derived extracellular vesicles and their miRNA content*Molly Rutt¹, Bonnie Ng^{1,2}, Sarah Newbury³, Rohan Lewis¹, Ying Cheong^{1,2}, Jane Cleal¹*¹University of Southampton, Southampton, UK. ²University Hospital Southampton NHS Foundation Trust, Southampton, UK. ³University of Sussex, Brighton, UK.**SP3E the Patient Journey****86. Results from the first nationwide audit of LGBTQ+ inclusion in fertility care providers in the United Kingdom***Chloe He^{1,2}, Nour Al-ma'ani², Mei Francis³, Jules Sales⁴, Isabella Marson⁵, Neringa Karpavičiūtė⁶, Rishabh Hariharan⁵, Ranya Derrick⁷, Sotirios Saravelos⁸, Luca Sabatini⁹, Sofia Tzouganatou¹⁰, Devika Nair¹⁰, Danielle Ellis⁵, Céline Jacques⁴, Timothy Ferrand⁴, Tash Oakes-Monger¹¹, Teodora Popa^{1,12}, Francisco Vasconcelos¹, Cristina Hickman⁸*¹University College London, London, UK. ²Sapphic Bison, London, UK. ³University of Warwick, Coventry, UK. ⁴Apricity, Paris, France. ⁵Apricity, London, UK. ⁶Manchester Metropolitan University, Manchester, UK. ⁷Wonersh Surgery, Guildford, UK. ⁸Imperial College London, London, UK. ⁹Barts Health NHS Trust, London, UK. ¹⁰Centre for Reproductive and Genetic Health, London, UK. ¹¹Spectra, London, UK. ¹²Avenues, London, UK.**165. Perspectives of obstetricians and gynaecologists on the use of weight loss medications***Ciara Nolan, Louise Glover, David Crosby*

Merrion Fertility Clinic, Dublin, Ireland

112. Exploring ethnic variation in embryo aneuploidy rates; is it time for an individualised approach?*Rabi Ahmed-Odia¹, Carleen Heath¹, Suzanne Cawood¹, Victoria Hemingway¹, Wael Saab¹, Elpiniki Chronopoulou¹, Srividya Seshadri²*¹CRGH, London, UK. ²UCL, London, UK.**18. Dilemmas and consensus for counselling patients considering transfer of PGT-A embryos reported as mosaic; Perspectives of a UK mainstream PGT genetic counsellor group***Valerie Shaikly¹, Karen Sage¹, Claire Engelbrecht², Sara Levine³, Jennifer Sloan⁴, Alyssa Armsby⁵, Elizabeth Verdon⁵*¹Fertility Genetics, London, UK. ²Kings Fertility, London, UK. ³CRGH, London, UK. ⁴Cooper Genomics, London, UK. ⁵Igenomix, London, UK.**PW8 Poster Walk****177. Ethics of artificial intelligence in fertility and reproductive medicine: a review of evidence***Tanushree Dasgupta¹, Tabassum Jafri¹, Bola Grace^{2,3}*¹UCL Global Business School for Health, Faculty of Population Health Sciences, University College London, London, UK. ²UCL EGA Institute for Women's Health, Faculty of Population Health Sciences, University College London, London, UK. ³Research Department, Cambridge Matrix, Cambridge, UK.**133. Time to revisit 'freeze-all for all'? A matched cohort study of over 9,000 embryo transfers***Jemma Garratt^{1,2}, Trina Shah¹, Balsam Al-Hashimi¹, Catarina Moreira¹, Bhavna Raikundalia¹, Nick Macklon¹, Kamal Ahuja¹, Elena Linara-Demakakou¹*¹London Women's Clinic, London, UK. ²University of Kent, Canterbury, UK.**316. Comparison of Ovarian Hyperstimulation Syndrome (OHSS) rates using Buserelin, Triptorelin (modified-release) and Nafarelin agonist triggers in antagonist freeze-all treatment cycles***Jennifer F Barcroft^{1,2}, Raashi Shah², Rana Al Odetalah¹, Kinjal Shah¹, Tia Hunjan¹, Rachel Roberts¹, Rajendra Rai^{1,2}, Rehan Salim¹, Emil Barsoum Derias¹, Danai Balfoussia¹, Sotirios Saravelos^{1,2}, Monica Mittal¹*¹Imperial College Healthcare NHS Trust, London, UK. ²Imperial College London, London, UK.**60. Investigating fertility awareness and attitudes amongst midwives and nurses in Ireland***Jenny Stokes¹, Sarah Petch^{1,2}, Sharleen O' Reilly³, Louise Glover², David Crosby^{1,2}*¹National Maternity Hospital, Dublin, Ireland. ²Merrion Fertility Clinic, Dublin, Ireland. ³School of Agriculture and Food Science, University College Dublin, Dublin, Ireland

79. Calcium ionophore containing medium significantly improves blastocyst formation and number in patients with previous poor blastocyst formation: a multicentre, retrospective cohort study

Jessica Wilkinson¹, Alison Campbell², Amy Barrie³, Sue Montgomery², Alison Richardson³, Victoria Sephton⁴, Adam Balen^{5,6}, Arri Coomarasamy^{7,8}, Tom Bamford¹, Hannah Newby¹

¹Care Fertility Manchester, Manchester, UK. ²Care Fertility, Manchester, UK. ³Care Fertility, Nottingham, UK. ⁴Care Fertility, Liverpool, UK. ⁵Care Fertility, Leeds, UK. ⁶Leeds Teaching Hospitals Trust, Leeds, UK. ⁷Care Fertility, Birmingham, UK. ⁸The University of Birmingham, Birmingham, UK.

83. Time from Freeze-All to FET – a retrospective analysis of livebirth rates

Jo Craig¹, Jenny Watkins¹, Justin Chu^{1,2,3}

¹TFP Oxford Fertility, Oxford, UK. ²University of Birmingham, Birmingham, UK. ³Birmingham Women's Hospital, Birmingham, UK.

183. Attitudes toward sperm donation among men in Scotland

Joseph Kasirye, Federica Lopes, Pranali Tanawade

University of Dundee, Dundee, UK.

179. Exogenous rectal administration of progesterone for frozen-thawed embryo transfer

Kanishka Gogna

Birmingham Women's Hospital, Birmingham, UK.

37. Sustainable IVF – introducing change; start now!

Sylvia Milne¹, Bryan Woodward², Elizabeth Ferguson¹

¹Aberdeen Fertility Centre, Aberdeen, UK. ²X&Y Fertility, Leicester, UK.

211. Dietary advice and fertility; is the content on social media accurate?

Tanveer Dhanoya

King's College Hospital, London, UK.

181. Enhancing efficiency in assisted reproductive technology (ART) laboratories through digitalisation: a failure mode effect analysis (FMEA) approach

Teodora Popa^{1,2}, Andrew Thomson^{2,1}, Oana Paun², Hannah Coffey², Madison Bailey², Ravid Israel³, Rufus Morgan², Alexa Zepeda², Chloe He^{4,5}, Katie Rankin², Christina Hancock², Lauren Ryan², Ahmed Amer^{6,7}, Lynae Brayboy⁵, Rami Wakim², Muhammad Fatum^{2,1}, Cristina Hickman^{2,5}

¹UCL Institute for Women's Health, London, UK. ²Avenues Centre for Reproductive Health, London, UK. ³Embie, Ramat Gan, Israel. ⁴Wellcome/EPSCRC Centre for Interventional and Surgical Sciences, London, UK. ⁵Ovom Care, Berlin, Germany. ⁶Ovom Care, London, UK. ⁷MyFertility, London, UK.

235. Systematic reduction in oestradiol and testosterone measurements due to serum separator gel in blood collection tubes: implications for at-home fertility testing

Tharni Vasavan¹, Adrian Timpson², Timothy Woolley³, Helen C. O'Neill^{2,1}, Natalie Getreu^{2,1}

¹Hertility Health, London, UK. ²University College London, London, UK. ³Inuvi Diagnostics, Gloucestershire, UK.

41. The effect of COVID-19 on Semen evaluation: an in-depth analysis of changes in semen quality and sperm parameters

Zeravan Abdularazaq Mohammed¹, Ali Yahya Saeed²

¹College of Veterinary Medicine/University of Duhok, Duhok, Iraq. ²College of Science, University of Duhok, Duhok, Iraq

158. Optimising in vitro endometrial model systems to investigate the effects of heat stress

Samantha Gardner, Haidee Tinning, Zenab Butt, Niamh Forde

University of Leeds, Leeds, UK.