**CURRICULUM VITAE**

**of**

**ADAM H. BALEN**

**MB, BS, MD, DSc, FRCOG**

Consultant Obstetrician and Gynaecologist

and Subspecialist in Reproductive Medicine,

Professor of Reproductive Medicine and Surgery

Leeds Centre for Reproductive Medicine,

Leeds Teaching Hospitals N.H.S. Trust

and Leeds University

Consultant CARE Fertility Leeds and

Chair of Innovation and Research Board,

CARE Fertility, UK

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Past Chair of The British Fertility Society

[www.adambalen.com](http://www.adambalen.com)

www.balancefertility.co.uk

@BalenAdam

*November 2023*

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**Overview (for detailed summary please see end of CV)**

Professor Adam Balen is one of the best known fertility specialists in Europe with many national and international roles. He is a full time NHS consultant Obstetrician and Gynaecologist with dual accreditation as a sub-specialist in Reproductive Medicine. He is the Lead Clinician of Leeds Centre for Reproductive Medicine and Chair of the Innovation and Research Board of CARE Fertility (UK). Prior to coming to Leeds in 1996, Adam trained in London and Oxford. Adam’s special interests include all aspects of Polycystic Ovary Syndrome (PCOS), Assisted Conception, Paediatric & Adolescent Gynaecology and Disorders of Sexual Development. He has published over 270 peer-reviewed papers, numerous book chapters and 16 books. His H-factor is 80 (>38,000 citations). He is also known as a charismatic lecturer having spoken at numerous major scientific meetings around the world.

Adam was Chair of the British Fertility Society (BFS) until January 2018, having spent over twenty years working in various roles for the BFS and continues on the Board of Trustees. He is a member of the World Health Organisation (WHO) Global Infertility Guidelines Committee and Chaired the WHO Expert Working Group on the management of PCOS, which published guidelines in 2016. He continues to work for the WHO as an active member of the re-formed Guideline Development Group, which is currently updating the global guidance on the management of infertility. He is a member of the Global PCOS Alliance and co-author of international guidelines for the management of PCOS (2018). He is also a committee member of the FIGO Expert Group on anovulation.

Adam sits on the Council of the Royal College of Obstetrics and Gynaecology (RCOG), London, having been re-elected for a second term in 2020. He is past Chair of the European Society for Human Reproduction and Embryology (ESHRE) special interest group on Reproductive Endocrinology and is a member of the ESHRE Fertility Awareness Committee. As Chair of the BFS, Adam created two national task forces: *Fertility Preservation UK*, to ensure nationwide provision for those who require fertility preservation and *The Fertility Education Initiative*, to improve the provision of education to young people about all aspects of reproductive health. He also chairs the NHS England IVF Pricing Development Expert Advisory group.

**Personal Details**

Date of birth: 30th April 1960, London

Nationality: British

Married to Grace Dugdale

email [a.balen@nhs.net](mailto:a.balen@nhs.net)

Website adambalen.com

Twitter /X @BalenAdam

Address Leeds Centre for Reproductive Medicine,

Seacroft Hospital, York Road, Leeds,

LS14 6UH, U.K.

**Position**

1996: Consultant Obstetrician & Gynaecologist and Subspecialist in Reproductive Medicine, Leeds Teaching Hospitals.

2004: Personal Chair: Professor of Reproductive Medicine and Surgery, University of Leeds.

2016: Lead Clinician, Leeds Centre for Reproductive Medicine, Leeds Teaching Hospitals.

2022: Consultant at CARE Fertility, Leeds.

Chair of Care Fertility UK Innovation and Research Board.

**Other Major Positions and Committees (see on for details)**

Chair World Health Organisation (WHO) Expert Working Group on Global Infertility Guidelines: Management of PCOS. Member WHO Guideline Development Group.

Past Chair, British Fertility Society (2015-2018).

Trustee, British Fertility Society (2019 to date).

Past Fellows’ Representative on RCOG Council for Northern, Yorkshire, Humber Region.

**Qualifications**

1983 MB, BS University of London

1990 MRCOG

1993 MFFP (R.C.O.G.)

1995 MD University of London, Hypersecretion of LH in PCOS

2002 FRCOG

2010 DSc, University of Leeds,

Aspects of PCOS, Infertility and Reproductive Endocrinology

**Membership of learned societies and key positions held**

**World Health Organization**

Committee Member of the International Steering Committee of the World Health Organisation (WHO) Global Infertility Guideline Development Group, 2012-2017; reappointed 2018 - present.

Chair of The WHO Expert Working Group on the Management of PCOS. Senior author of guidelines published in 2016.

Re-appointed as a member of the re-formed Guideline Development Group, which is currently updating the global guidance on the management of infertility (2020- present).

Member of WHO ICMART Clinical Terminology Working Group, 2014 - present.

**International Federation of Gynecology and Obstetrics (FIGO)**

Senior member of the FIGO Steering Group on the Classification of Ovulatory Disorders,

2020 - present. First author, new classification published 2022.

**Global PCOS Alliance / CRE PCOS**

Member of The Global PCOS Alliance (2016 - present) and co-author of

international guidelines for the management of PCOS (published 2018).

Member of Infertility Guidelines Group (2021-2023)

- revised guideline being published 2023.

# **Royal College of Obstetricians and Gynaecologists**

Fellows’ Representative on RCOG Council for Northern, Yorkshire, Humber Region, 2016 - 2023 (re-elected for a second term in 2020).

Member of the National Covid Vaccination Committee, representing Reproductive Medicine. Author of guidelines during the Covid pandemic and presenter of several webinars to the public on the importance of vaccination whilst trying to conceive and during pregnancy.

Author of guidelines on Nutrition and protecting yourself during the Covid pandemic - presented to the RCOG and also circulated to 17,000 workers at Leeds Teaching Hospitals Trusts and other trusts in the UK.

RCOG Scientific Study Group on Infertility, 1998.

Scientific Study Group on Menstrual Cycle Disorders 2000.

Scientific Study Group on Obesity 2007 (Co-convener).

Scientific Study Group on PCOS 2010 (Co-convener).

Member of RCOG Academic Committee, 1999 – 2002.

Member Subspecialty Training Committee, 2000 - 2003.

Member of Scientific Advisory Committee, 2006 – 2010.

Scientific Editor, British Journal of Obstetrics & Gynaecology (BJOG), 2004 – 2015.

Member of BJOG Management Committee, 2005 – 2014.

Editor of special issue of BJOG on Obesity, 2006.

Editor special issue of BJOG on Paediatric and Adolescent Reproductive Health, 2010.

Three eponymous prize lectureships:

1996 Green Armytage Anglo-American Prize, *Hypersecretion of LH in PCOS;*

2004, Blair Bell Prize, *PCOS, A condition of our time;*

2009Victor Bonney Prize, *Disorders of Sexual Development and Differentiation. How, where and When?*

Public Lecture: Living with PCOS, RCOG Consumers Forum, London, March 2009.

RCOG representative on DoH CJD Incidents Panel, 2003-present.

Member of Working Party on Advanced Specialist Training, 2006.

Reviewer of Infertility Guidelines (1, 2 & 3), 1997, 1999 and 2003.

RCOG representative on National Obesity Research Organisation, 2006 -present.

RCOG spokesperson on Reproductive Medicine and related topics.

College Assessor on Advisory Appointments Committees 2006 - present.

Inspector of subspecialty training schemes, 2000 - present.

Referee for abstracts: British Congress of O & G, 2004 – present.

District Tutor for Leeds General Infirmary, 1998 – 2002.

Faculty of RCOG Medical Educators: Tier Three Educator in postgraduate O&G medical education and training, 2015 - present.

RCOG Preceptor and ATSM supervisor: 1) Level 3 Hysteroscopy and Laparoscopy; 2) Infertility; 3) Assisted Reproduction; 4) Ovulation Induction; 5) Ultrasound for Infertility; 6) Paediatric and Adolescent Gynaecology.

RCOG representative on Royal College of Paediatrics and Child Health Committee for Adolescent Health, 1999 – 2002. Contributor to “Bridging the Gaps: Health Care for Adolescents”, published by RCPaeds & CH, June 2003, 62pp.

Convener joint RCOG/ESHRE Meeting on Ovulation Induction, April 2004, London.

Convener joint RCOG/ESHRE Meeting on PCOS, November 2007, London.

Lecturer on MRCOG Courses, 1996 - present.

Lecturer on Basic Sciences for Subspecialty Trainees course, 2004 - present.

Contributor to R.C.O.G. DIALOG CD-ROM,1996; R.C.O.G. Logic questions author, 1998,1999, 2000; Green Top Guideline referee: 2002, 2003, 2007.

Contributor to information leaflet for patients on PCOS.

StratOG: Author of *Amenorrhoea* section, 2006.

Author of RCOG response to GMC paper, December 2006: *Children and Young People – consultation on guidance for doctors.*

Author of RCOG SAC paper, 2008: *Indications for the use of metformin in polycystic ovary syndrome.*

Co-Author of RCOG SAC paper, 2009 & 2015: *The role of bariatric surgery in the management of female fertility*.Samantha Scholtz, Carel le Roux , Adam Balen.

Co-author: Metformin Therapy for the Management of Infertility in Women with Polycystic Ovary Syndrome. RCOG SAC Paper 2016.

Co-author: Epigenetics. RCOG SAC Paper 2016.

Reviewer Green Top Guidelines: PCOS, 2014; OHSS, 2016.

Genomics e-learning resource review panel: 2020-.

Expert advisor to the Swinfen Charitable Trust (telemedical advice to developing countries).

# **National Preconception Task Force**

# Member of The National Preconception Task Force, chaired by Professor Judith Stephenson. 2018-present.

# **Department of Health / NHS England**

Chair, NHS England IVF Pricing Development Expert Advisory Group, 2016 - To establish a national tariff and benchmark price for IVF; benchmark published 2019.

NICE Guidance on PCOS, principle author of scoping document – 2009-2010.

NICE Guidance on Infertility, 2003 & 2013. Reviewer.

National Institute for Health Research (NIHR), Specialty Lead for West Yorkshire, Comprehensive Local Research Network (CLRN) on the National Reproductive Health & Childbirth Specialty Group. 2008 - 2012.

Member of DoH “Chapter M” working group, Obstetrics, Gynaecology and Reproductive Medicine Coding Panel, 2004 - 2012.

Prodigy reviewer 2006, 2013:

Guidelines on management of amenorrhoea.

Guidelines on management of polycystic ovary syndrome.

Guidelines on diagnosis and management of polycystic ovary syndrome. Clinical Guidelines for primary care, volume 32, June 2007. <http://www.eguidelines.co.uk> , written for and published on behalf of *PCOS UK.*

Member of NHS Executive Steering Group on Evidence Based Medicine and Clinical Governance, 1999-2002.

RCOG nominated member on the DoH (NSCAG) working party for a National Framework for the management of Intersex Conditions, 2001.

Member of Specialist Advisory Group to the All Party Parliamentary Group on Infertility 2003-4; co-author of discussion paper for MPs: *Infertility Treatment in the U.K., Taking NICE Forward* (February 2004)*.*

RCOG representative on DoH CJD Incidents Panel, 2003-2010.

# **In recognition for service to NHS:**

# Advisory Committee on Clinical Excellence Awards (ACCEA):

# Bronze (2006), Silver (2009), Gold (2016), Platinum award (2021).

**Human Fertilisation and Embryology Authority (HFEA)**

Reviewer of research protocols, 1999 – 2020.

Author of “Current evidence relating to OHSS”, 2005; revised and rewritten in 2008.

Member of The Legislative Reform Advisory Group, looking at re-writing the HFE-Act of Parliament, 2022-present. Published recommendations November 2023.

# **Leeds Teaching Hospitals**

Lead clinician, Leeds Fertility, formerly Leeds Centre for Reproductive Medicine, Leeds Teaching Hospitals, 2016 -.

Clinical lead, Paediatric and Adolescent Gynaecology multidisciplinary clinical service.

Author of guidelines on Nutrition and protecting yourself during the Covid pandemic - presented to the RCOG and also circulated to 17,000 workers at Leeds Teaching Hospitals Trusts and other trusts in the UK.

Chairman of Senior Medical Staff Committee, 2006 - 2012.

Local Negotiating Committee, 2006 - 2012.

# Person Responsible to HFEA, Reproductive Medicine Unit, Leeds General Infirmary

2002 - 2009.

Secretary of O & G Committee, Leeds General Infirmary, 1998 - 2005.

Secretary of Joint O & G Committee, Leeds General Infirmary & St James’ Hospital, 1999 – 2005.

Member of Clinical Ethics Committee, 2002 - present.

Member of *Obesity Service Review*, 2006 - 2016.

Leeds Infertility Guidelines Group – co-author, 1999-2001.

Leeds Menorrhagia Guidelines Group – co-author, 1999-2001.

Member of Specialty Training Committee, 1999-2001.

Mentor to G.P.s on management of benign gynaecological problems, 1999-2006.

**ACCEA**

Member Yorkshire and Humber ACCEA Committee - 2020-2022.

## **Leeds University**

2010: Awarded DSc.

2004: Personal Chair: Professor of Reproductive Medicine and Surgery

1996: Honorary Senior Lecturer.

MD, PhD, MSc and BSc Supervisor (see list below).

Tutor and module organiser for MSc in Clinical Embryology, 2000 - present.

Supervisor LURE Scholarship 2006-2010 (Miss D Sivayoganathan, medical student).

District Tutor, RCOG; organiser of postgraduate teaching programme 1998 – 2001.

Tutor in Clinical Ethics Course, 1999 – 2001. Ethics debates 2006 - present.

Personal Tutor to medical students from all years 1997-2011.

## **Cochrane Review Panel**

Member of Cochrane Review Panel, Menstrual disorders and Infertility, 2006-present.

## **International University Roles**

Advisor to Colombo Institute for Women’s Health and Maternal Wellbeing, Sri Lanka. Dr Chandrika Wijeyeratne.

Board Member of the Hope Institute, [My Duc Hospital](https://myduchospital.vn/), Ho Chi Minh City, Vietnam.

## **British Fertility Society**

Chair: January 2015-2018.

Member of the Board of Trustees, 2019 to date.

## Member since 1991.

Member of The National Executive Committee of the B.F.S., 1995 – 2002; 2008 - 2018.

Chair Fertility Education Initiative, Special Interest Group, 2016 - present.

Chair Policy and Practice Committee, 2008 - 2015.

Treasurer of The B.F.S., 1998 – 2002.

Director of B.F.S. Ltd and Company Secretary, 1998 – 2002.

Member of Policy and Practice Subcommittee, 1996 – 1998.

Junior Representative on the B.F.S. Committee, 1995 – 1998.

BFS/RCOG Preceptor – 1) Management of Infertility; 2) Assisted Reproduction;

3) Ultrasound for Infertility; 4) Embryo Transfer.

Member of Working Group on NHS Provision of Fertility Services, 1999 - 2002.

BFS representative on National Infertility Awareness Campaign, 1998 – 2001.

BFS representative on National Obesity Research Organisation, 2006 -2012.

Co-editor of *Human Fertility,* 1998 - 2004.

Scientific Advisory Board of *Human Fertility,* 2004 - 2018.

Co-editor of the *Journal of the British Fertility Society*, 1996 – 1998.

**British Society of Paediatric and Adolescent Gynaecology (BritSPAG)**

Co-Founder of BritSPAG, 1998.

Secretary and founder member of National Committee of BritSPAG, 1998 - 2009.

## Member since 1998.

Jack Dewhirst Memorial Prize Lectureship, March 2015: The evolution of PCOS through adolescence and beyond.

UK Representative and co-author on the European / United States Consensus paper on the management of disorders of sexual differentiation (2020-2022).

## **Other National Societies**

Executive Committee and founding member of PCOS UK, 2005 – present.

Author of: Guidelines on diagnosis and management of polycystic ovary syndrome.

Also published in: Clinical Guidelines for primary care, volume 32, June 2007. <http://www.eguidelines.co.uk> , written for and published on behalf of *PCOS UK.*

Member of the Society for Endocrinology, 1996 - 2009.

Associate editor of *Clinical Endocrinology*, 2003 – 2007.

Member of The Gynaecological Club, 1997 - present.

Fellow of the Royal Society of Medicine (RSM) 1983-1998,

Member of Council of Section of O & G, RSM 1994-1997.

Founder member of The Yorkshire Menopause Group, 1997. Treasurer, 1997 – 2000.

Founder member of the Fertility Research Organising Group, 1997 - present.

Secretary, 1997 – 2000.

Member of the Ovarian Club, 1994 - 2008.

Member of the British Society for Gynaecological Endoscopy, 2000 - 2005.

Member of the Blair Bell Research Society, 1993 – 2000.

Member of the Family Planning Association, 1990 – 2001.

Member of the Victor Bonney Society, 1990 – 1998.

## **International Societies**

**European Society of Human Reproduction and Embryology (ESHRE)**

Member since 1995.

Member of International Scientific Committee, 2008 - 2012.

Chair of Special Interest Group (SIG) in Reproductive Endocrinology, 2008 – 2011, representing 1500 members of the Society.

Committee member, SIG in Reproductive Endocrinology, 2001 – 2013.

Committee member, SIG for Fertility Awareness, 2017 - 2020.

Associate Editor of *Human Reproduction*, 2001 – 2004; 2010 - 2013.

Chair of ESHRE, Young Scientist Prize Committee, 2004, 2009.

Convener joint RCOG/ESHRE Meeting on Ovulation Induction, April 2004, London.

Convener joint RCOG/ESHRE Meeting on PCOS, 2007, London.

Member of joint ESHRE/ASRM Consensus Working Groups and co-author of guidelines on the *Definitions of polycystic ovary syndrome* (2003) and *The management of infertility in polycystic ovary syndrome* (2007). And co-convener of joint ESHRE/ASRM Consensus Working Group on *The management of non-infertility aspects of polycystic ovary syndrome* (2010).

**American Society for Reproductive Medicine (ASRM)**

Member since 1996.

Member of “Ad Hoc” Editorial Board, *Fertility and Sterility,* since 2001.

Member of Paediatric and Adolescent Gynaecology Special Interest Group.

## **Patient Support Groups**

Member of Advisory Board of The Fertility Alliance – the national patient support group.

Member of Advisory Panel of Fertility Network UK (formerly INUK), 2016-present.

Member of Medical Advisory Board of Infertility Network UK, (INUK, the combined national infertility patient support group, combining CHILD and ISSUE) 2005 – 2016.

Medical Advisor on Female Infertility, 2005-present.

Previously, before amalgamation: Member of the Board of CHILD (National Infertility Patient Support Group) 1992-1999, and Medical Advisor on Infertility, 1992- 2005.

Patron of ACeBabes, the national society for parents and children born by assisted conception, 2003-2010.

Medical advisor to Verity (PCOS national support group), 1997 - present.

Board Member of “PCOS UK” – The PCOS professional group.

Medical advisor to ALIAS (Androgen Insensitivity Support Group), 1997 - present.

Medical advisor to The CAH Support Group, 2001 - present.

Medical advisor to the Turner’s Syndrome Society, 2002 - present.

Advisory Board Member, *Pathways to Pregnancy*, magazine, 2005 – 2008.

### Media

### Main spokesperson on Reproductive Health for the RCOG. Regular commentary for the Science Media Centre and interviews for national and international media.

### Regular interviews on BBC national and local radio, Sky, independent TV and radio stations and local and national newspapers. Several apperances on BBC1 *Breakfast*: 2016 mitochondrial donation; 2017 funding of IVF; 2018 National Fertility Week; 2019 Funding of Fertility treatment & the postcode lottery, national endometriosis week and other topical issues). The Today Programme (2007, 2012, 2015, 2018: National Obesity Guidelines, IVF outcomes and funding). *Woman’s Hour,* 2021 on fertility education.

Major roles in the following documentaries:

ITV: 2003, Precious Babies, 3 Part Programme filmed on our IVF unit.

### BBC 1 Programmes: 2011 - *Me, My Sex and I* (Disorders of Sexual Development).

### 2016 - consultant director for *Alex Jones’ Fertility & Me.*

### 2018 - *The Truth about Carbohydrates* with Xand van Tulleken.

### BBC Radio 4: Woman’s Hour 2002, 2007 - PCOS

### Check Up 2008 – whole programme on PCOS.

*Inside Health*: 2016 Fertility Health Education; 2016 PCOS; 2017 age & fertility.

*You & Yours:* 2017 - Funding of IVF.

Channel 4: 2008 – management of PCOS on *Embarassing Bodies*.

### Education

1968 - 1978 University College School, Hampstead, London

1978 - 1983 The Medical College of St Bartholomew's Hospital,

University of London

**Achievements at Medical College**

1981 - 1982 Chairman, Students' Union

1979 - 1981 Assistant Treasurer & Treasurer, Students' Union

1978 - 1982 Rowing, 1st eight and 1st four

1979 - 1982 Reviews and shows, performer and producer

2003, 2008, 2013, 2018 Co-organiser of reunions

**Previous appointments**

1.6.94 - 30.12.96 Senior Registrar in Obstetrics and Gynaecology

and subspecialist trainee in Reproductive Medicine,

Nuffield Department of Obstetrics and Gynaecology

John Radcliffe Hospital, Oxford.

*Consultants: Professor D Barlow, Mr FM Charnock*

1.7.93 - 31.5.94 Registrar in Obstetrics and Gynaecology

The Hillingdon Hospital, Uxbridge, Middlesex.

*Consultants: Mr CS Wright & Mr VP Robinson*

1.8.90 - 30.6.93 Research Fellow / Honorary Registrar

Department of Reproductive Endocrinology,

The Middlesex Hospital and The Hallam Medical Centre, London

and Visiting Research Fellow,

Division of Endocrinology, National Institute for Biological Standards and Control, South Mimms, Herts.

*Supervisor: Professor HS Jacobs*

1.7.89 - 31.7.90 Registrar, Obstetrics and Gynaecology

St Mary's Hospital, London and

The Central Middlesex Hospital, London.

*Professor RW Beard, Sir George Pinker, Mr FE Loeffler,*

*Mr DB Paintin, Mr NPI Armstrong & Mr EAD Manning*

1.4.89 - 30.6.89 R.M.O. Clementine Churchill Hospital, Harrow, London.

6.9.88 - 31.3.89 Senior House Officer, Obstetrics

Queen Charlotte's and Chelsea Hospital, London.

*Mr J Malvern, Mr ED Morris, Dr M de Swiet*

1.2.88 - 31.7.88 S.H.O. Diabetes and Endocrinology

The Middlesex Hospital, London.

*Professor HS Jacobs, Dr AB Kurtz*

1.2.87 - 31.1.88 S.H.O. Gynaecology

The Samaritan Hospital for Women, London.

*Mr DB Paintin , Mr PJ Steer, Mr FE Loeffler , Mr AC Fraser,*

*Professor RW Beard , Sir George Pinker, Mr WP Mason*

*& Dr C Coulter*

1.9.86 - 31.1.87 S.H.O. Obstetrics and Gynaecology

The London Hospital, London.

*Mr T Beedham & Mr DH Oram*

1.2.86 - 31.7.86 S.H.O. Obstetrics and Gynaecology

Harold Wood Hospital, Essex.

*Mr DMC Forster, Miss ER Burton & Mr P Bolton*

1.2.85 - 31.1.86 Medical Officer

St Rita's Hospital, Homeland of Lebowa,

Republic of South Africa.

1.8.84 - 31.1.85 S.H.O. Accident & Emergency

St Bartholomew's Hospital, London.

*Mr S Miles*

1.2.84 - 31.7.84 House Physician

Harold Wood Hospital, Essex.

*Dr D Moul, General Medicine and Diabetes*

1.8.83 - 31.1.84 House Surgeon

North Middlesex Hospital, London.

*Mr R Payne, General Surgery, Mr JJH Mulnier, Orthopaedics*

**Prizes**

1982 Hayward Prize, St Bartholomew's Hospital Medical College, for contributions to the College.

1982 University of London Laurels, for contributions to the University of London Union Medical Group.

1994 Audit Prize, Hillingdon Hospital. Audit of Gynaecology Outpatients Service.

1994 Green Armytage Anglo-American Prize Lectureship, R.C.O.G.: *Hypersecretion of LH in PCOS.*

1994 British Fertility Society Prize for best oral presentation, Glasgow, May 1994.

1995 The Frewin Prize, awarded by the Oxfordshire Health Service Research Committee. For the best essay in any branch of medical research.

1995 R.C.O.G. Ethicon Travel Award.

1. Nichols Fellowship, Royal Society of Medicine.

1998 American Society of Reproductive Medicine and IFFS, First Prize Video Award: “In vitro maturation of human oocytes”, jointly with R. Gosden, D. Nugent and A.J. Rutherford.

2000 CHILD First Annual Prize lecture.

2004 RCOG, Blair Bell Prize Lectureship: *PCOS, A condition of our time.*

2004 Commonwealth Prize Scholarship, for Dr Ephia Yasmin from India to work in my department.

2005 Australian Fertility Society Exchange Prize, awarded at ESHRE, Copenhagen.

for Tang T, Glanville J, Barth JH, Balen AH. Metformin in patients with polycystic ovary syndrome (PCOS) undergoing IVF. A randomised, placebo-controlled, double-blind study.

2005 Book: A Multi-Disciplinary Approach to the Management of Paediatric and Adolescent Gynaecology. Highly Commended in Obstetrics and Gynaecology category of the BMA Medical Book Awards, 2005.

2006 Book: Clinical Management of Polycystic Ovary Syndrome. Highly Commended in Obstetrics and Gynaecology category of the BMA Medical Book Awards, 2006.

2006 British Fertility Society Prize for Best Young Scientist, won by Karen Hemmings for amino acid profiling of oocytes. Co-author with Henry Leese and Helen Picton.

2006 LURE Scholarship, University of Leeds; awarded to Miss Dhakshana Sivayoganathan, medical student for work on PCOS.

2009. Victor Bonney Prize, RCOG. *Disorders of Sexual Development and*

*Differentiation. How, where and When?*

2009 Clinical Research Prize at the Israeli Fertility Association Annual Meeting, Tel Aviv, May 11-12, Clomifene or low-dose FSH for the first-line treatment of anovulatory PCOS: A prospective randomised multinational study (COFFI). R. Homburg, M.L. Hendriks, T. Konig, R.A. Anderson, A. Balen, M. Brincat, T. Child, M. Davis, T. D'Hooghe, A. Martinez, M. Rajkhowa, R. Rueda-Saenz, P.G. A. Hompes,C.B. Lambalk.

2010. Alexander Gordon Lectureship, University of Aberdeen.

2010. FRIGGA prize, awarded jointly to H.Picton, AJ Rutherford, V Sharma and AH

Balen, by Ferring Pharamecuticals at ESHRE, Rome.

2014. The evolution and revolution of infertility treatment. The First Professor Subhas Mukerjee memorial lecture. Kolkata, India.

2015. Jack Dewhirst Memorial Prize Lectureship, British Society for Paediatric and Adolescent Gynaecology, March 2015, London: The evolution of PCOS through adolescence and beyond.

2019. ***First prize*** *in the Obstetrics and Gynaecology category of the 2019 BMA Medical Book**Awards:* **Pediatric and Adolescent Gynecology.** Edited by Sarah Creighton, Adam Balen, Lesley Breech and Lih-Mei Liao. Cambridge University Press, Cambridge, UK, 2018, 165 pages.

**Visiting Professorship**

2004 Schellekens Foundation Visiting Professorship 2004, Maastricht and Nijmegen, The Netherlands, December 2004. Lectures on Polycystic Ovary Syndrome and Intersex.

### Research Grants

1992 North East Thames Regional Health Authority Locally Organised Research

Scheme. £24,000 grant for M.D. project (Principal Investigator).

1992 The Robert Malcolm Award for Study Overseas. £5,000. A travel award to Columbus University, Ohio, U.S.A. to visit the laboratories of Professor Doug Danforth, then the leading authority on gonadotrophin surge attenuating factor and to present my data in the U.S.A. (Principal Investigator).

1992 Middlesex & University College Hospitals, Clinical Research and Development Committee. A £28,000 grant for my M.D. project (Principal Investigator).

1995 Anglian and Oxfordshire Regional Health Authority, Clinical Research Grant.

A grant of £28,500 for a joint project with Professor Martin Vessey and Dr David Dunger on adolescent obesity, menstrual disorders and PCOS (Principal Investigator).

1. BUPA Medical Foundation, Clinical Research Grant. £81,000 for the adolescent PCOS study (Principal Investigator).
2. Collaborating centre for the MRC Co-operative on the Development of the early human embryo. £900,000. Principal investigator: Professor Henry Leese, York University; other members: Leeds (senior investigator Dr Helen Picton, with clinical input from A. Balen and A. Rutherford), Manchester and Southampton.
3. Special Trustees, Leeds General Infirmary for RCT study of Metformin versus placebo in the management of anovulatory PCOS, £125,000, (Principal Investigator).
4. Serono Laboratories (U.K.) International Ovulation Induction, Phase 3 low dose protocol study, £60,000 (Principal Investigator).
5. Organon Laboratories (U.K.) Starting dose 50 IU Puregon study, £25,000 (Principal Investigator).
6. Organon Laboratories (U.K.) International Ovulation Induction, Phase 4 low dose protocol study, £65,000 (Principal Investigator).

2000 Commonwealth Fellowship, Dr Wijeyeratne (Principal Investigator), Clinical manifestations and insulin resistance in PCOS amongst South Asians and Causcasians, in collaboration with Dr P Belchetz, 2 years, £150,000.

2001 Organon Laboratories (Netherlands) International Ovulation Induction, Phase 2 dose finding study, FSH-CTP, £100,000 (Principal Investigator).

2002 Schering Laboratories Ltd (U.K.) Observational study for the use of Yasmin in polycystic ovary syndrome, £30,000 (Principal Investigator).

2003 Phase 2 randomised, double blind, placebo controlled study to investigate the optimal dose of a single administration of Org 36286 (FSH-CTP, corifollitropin alpha) to induce monofollicular ovulation in women with WHO Group II anovulatory infertility.

Principal investigator: Adam Balen. Collaborating centres: Prof Bart Fauser, Rotterdam; Prof Paul Devroey, Brussels. Funding: Organon Laboratories £72,000.

2003 Prospective RCT for the use of Yasmin versus Dianette in the management of women with PCOS. Principal investigator: Adam Balen. Collaborators in Leeds: Dr J Barth, Dr M P-Singh. Funding: Schering Healthcare, £70,000.

2003. A study of candidate genes which may be involved in the aetiology of premature ovarian failure. Principal investigator: Dr E Kendall, Dr D Iles, Mrs S Burnham, School of Biology, Collaborators: Dr Adam Balen – all in Leeds. Funding: WellBeing £56,000.

2003 RCT of Bravelle versus Gonal-F in the management of anovulatory infertility.

Principal investigator: Adam Balen. Ferring Pharmaceuticals, ~ £10,000.

2004 RCT of Menopur versus Gonal-F in the management of anovulatory infertility.

Principal investigator: Adam Balen. Ferring Pharmaceuticals, ~ £10,000.

2004. Targeting gene function in human oocytes and ovarian somatic cells using antisense technologies. Principal investigator: Helen Picton & Adam Balen, Leeds. Collaborators: John Huntriss, Leeds, Prof Henry Leese, York. Wellbeing £98,711.

2004. Human sperm as a tool for the identification of genes and proteins linked to male infertility. PI: David Miller, M Brinkworth, D Iles, Gilthorpe M, Picton H, A Balen. Biotechnology and Biological Sciences Research Council (BBSRC) £187,000.

2004-7: Chromatin packaging in mammalian spermatozoa: BBSRC (with David Iles, Biology Martin Brinkworth (Bradford) and Adam Balen (Leeds RMU, LGI) £167,177

2003/4 Prospective study for the optimal timing of hCG in GnRH antagonist cycles in IVF. Principal investigator: Adam Balen in Leeds. Funding: Organon, £20,000.

2004 Molecular and cellular markers of egg quality. PI: Helen Picton, Henry Leese (York), Adam Balen. British Fertility Society, Serono Fellowship £72,100.

2004 The generation of human embryonic stem cells. PI: Helen Picton, Henry Leese (University of York), Adam Balen. Medical Research Council £238,969.

2004 Dipeptidyl peptidase in PCOS. Principal investigator: Adam Balen. Funding: Ferring Pharmaceuticals, £15,400.

2005-8: RNA profiling of human ejaculate spermatozoa: linking gene expression dynamics with fecundity at the molecular level. MRC (with David Iles, Biology, Mark Gilthorpe, LIGHT, Martin Brinkworth (Bradford), John Huntriss, Helen Picton (Leeds), David Morroll, (Leeds RMU, LGI) and Adam Balen (Leeds RMU, LGI) £194,424.

2005 Fibrin structure/function in pre-menopausal women polycystic ovary syndrome: the effect of insulin resistance independent of glycaemia and the role of post-translational modifications to fibrinogen. British Heart Foundation, Research Fellowship (no. FS/05/031), with Dr Eleanor Scott.

2006 FSH-CTP in IVF – a double-blind placebo controlled RCT. Organon Laboratories, £60k.

2010. FRIGGA Prize for oocyte research and metabolism, Ferring Pharmaceuticals. PI Helen Picton. £50k.

#### 2013 - 2018. MRC programme grant; PI Helen Picton: Lifecycle and legacy of human oocytes in health age and infertility. £1.1m

#### (£3,971,000)

Ongoing Research Projects

Embryo and oocyte quality/metabolism in ageing ovaries, PCOS and other conditions - in collaboration with Professor Helen Picton, Leeds.

Nutritional predictors for reproductive outcomes and implantation.

#### 2019 Member of Trial Steering Committee for REGAL trial as a clinical expert.

#### REGAL - 'Recurrence of endometriosis: Clinical and cost effectiveness of long term

#### GnRH analogues with addback HRT versus repeat laparoscopic surgery'

#### an HTA funded multicentre trial starting from 1/8/19.

2019 DAISY-PCOS Phenome Study: Dissecting androgen excess and metabolic dysfunction for an integrated systems approach to polycystic ovary syndrome through the assessment of detailed phenome and metabolome data. IRAS: 256572 REC reference number19/WM/0110. In collaboration with Professor W Arlt, Birmingham University. Funded by the Welcome Trust.

2020 The LOCI trial. Letrozole or Clomifene, with or without metformin, for ovulation induction in women with polycystic ovary syndrome: a 2x2 factorial design randomised trial. In collaboration with Professor Arri Coomarasamy, Birmingham University.

2020 Value Study: Add ons in IVF, with Sarah Armstrong, Bristol, Allan Pacey Sheffield and Cindy Farquhar, New Zealand.

2020 Assessment of weight loss in PCOS using the UK national GP database. Supported by Novo Nordisk.

#### National and International Meetings Personally Organised (Major in italics)

1995: Principal Organiser, First BFS Juniors Meeting, Windermere.

1996: Principal Organiser, BFS Juniors Meeting, Leeds.

1997: Principal Organiser, BFS Juniors Meeting, Stratford-upon-Avon.

*1999: Principal Organiser, Inaugural meeting of the British Society for*

*Paediatric and Adolescent Gynaecology, London.*

*2000: Principal Organiser, International PCOS Clinical Symposium, BFS Winter*

*Meeting Bath*

*2001: Second national meeting of The British Society for Paediatric & Adolescent*

*Gynaecology (BritSPAG), London.*

2001: Programme organizer First British Winter Fertility Workshop, Villars.

2001: Principal Organiser, Prevention of Adhesions, Workshop, Leeds.

2001: Principal Organiser, Gynaecological Club Autumn Meeting, Leeds.

2002: Programme Organizer Second British Winter Fertility Workshop, Davos.

*2002: Principal Organiser, Third national meeting of BritSPAG and first national training day in Paediatric and Adolescent Gynaecology, Leeds.*

2003: Programme organizer Third British Winter Fertility Workshop, Chamonix.

*2003: Third national meeting of BritSPAG, London.*

2003: Chair, National Working Group on Prions in Infertility Therapy.

*2004: Principal Organiser ESHRE/RCOG Meeting on The Evidence-based Management of Ovulation Induction, RCOG, London (International).*

2004: Programme Organizer Fourth British Winter Fertility Workshop, Davos.

2004: *Fourth national meeting of BritSPAG, London.*

2007: *Co-convener, Special Study Group on Obesity, London.*

2010: *Co-convener, Special Study Group on PCOS, London.*

2016: Fertility Health Education Summit: Choice not Chance, RCOG, London.

2017: *Fertility 2017.*

2018: *Fertility 2018.*

2019:  *The first Fertility Forum,* RCOG.

**International Scientific and Programme Committees**

2001: International Advisory Board: Controversies in Obstetrics & Gynaecology,

Paris.

2002: International Advisory Board: 11th World Congress on Human Reproduction,

Montreal.

2002: Scientific Committee SSF Meeting on Fertility Preservation, Leeds.

2003: Scientific Committee Fourth national meeting of BritSPAG, London.

2003: Faculty ESHRE Consensus Meeting on PCOS, Rotterdam.

2003: Scientific Committee, ESHRE/ASRM Workshop, Madrid.

2003: International Scientific Committee, PCOS Meeting, Turkey.

2004: International Scientific Committee, 6th Updates in Infertility Treatment. Florida.

2004: Scientific Committee, ESHRE/ASRM Workshop, Berlin.

2005: Scientific Committee, ESHRE/ASRM Workshop, Copenhagen.

2006: Scientific Committee, French Society of Gynaecology, Paris.

2007: Scientific Committee, World Congress on IVF and IVM, Montreal.

*2007: Principal Organiser joint RCOG/ESHRE Meeting on PCOS, RCOG, London.*

2008: International Scientific Comm 8th Updates in Infertility Treatment, Cape Town.

2009: ESHRE Amsterdam, International Scientific Committee.

*2009: ESHRE Campus, Budapest: Old and New Hormones.*

2008: International Scientific Committee, 9th Updates in Infertility Treatment, Seville.

*2010: ESHRE Campus, Kiev: Training in reproductive medicine.*

*2010: ESHRE Rome, International Scientific Committee.*

*2010: ESHRE Campus, Dubrovnic: A healthy start to pregnancy.*

*2010: ESHRE/ASRM Consensus on PCOS, Amsterdam.*

*2011: ESHRE Stockholm, International Scientific Committee.*

*2012: Updates in Infertility Meeting, Budapest, International Scientific Committee.*

*2013: ESHRE/ Campus on PCOS, Rome.*

*2013: Roy Homburg 70th Birthday Symposium, Leeds.*

*2014: Updates in Infertility Meeting, Prague, International Scientific Committee.*

*2015-2018: British Fertility Society - all National Meetings & Joint Fertility Societies Meetings.*

*2016: Updates in Infertility Meeting, Lisbon, International Scientific Committee.*

*2018: Updates in Infertility Meeting, Madrid, International Scientific Committee.*

*2020: Updates in Infertility Meeting, Seville, International Scientific Committee.*

#### Supervision of Research Theses

Oxford University, Doctor of Philosophy Degree Supervisor, Dr K Michelmore (2000).

School of Medicine, Leeds: D.Clin.Psychol, Dr J. Alderson (2000).

Leeds University, MD Supervisor, Dr C Hayden (2001).

University of Colombo, Sri-Lanka, PhD Supervisor, Dr C Wijeyaratne (2003).

Leeds University, MD Supervisor, Dr T Tang (2007).

Leeds University, MD Supervisor, Dr M Palep-Singh (2009).

Leeds University, MD Supervisor, Dr E Yasmin (2011).

Leeds University, MD Supervisor, Dr M Deivanayagam (2011).

Leeds University, MSc Supervisor, Dr Chris Brewer (2012).

Leeds University, MD Supervisor, Dr Susie Nicholas (2016).

Liverpool University, MSc Supervisor, Sister Victoria Rawnsley (2016).

**RCOG Preceptor for Special Skills Modules – successful candidates supervised**

2005: Vyjay Srivanayasan – Infertility; Assisted Conception; Gynae ultrasound.

2006: Rami Hamzeh - Infertility; Assisted Conception.

Maruthini Deivanayagam - Infertility.

Mohammed Hassan – Infertility; Assisted Conception.

2008: Maruthini Deivanayagam – Assisted Conception.

Santanu Acharya - Infertility; Assisted Conception.

2009: Thomas Tang - Infertility; Assisted Conception.

2010: Dr Chris Brewer - Infertility; Assisted Conception.

2015: Dr Mugdha Kulkarni - Infertility; Assisted Conception; Paediatric & Adolescent

Gynaecology.

**Examining**

Leeds University: MB, BS; MSc Clinical Embryology.

UK Universities: MD, PhD & DPhil theses - London, Oxford, Birmingham, Glasgow, Exeter & Plymouth.

Overseas Universities: PhDs Amsterdam, Brussels, Copenhagen; DPhil, Adelaide, Australia.

**Journal Editorships**

Scientific Editor, *British Journal of Obstetrics and Gynaecology*, 2004 – 2016.

Editor of special issue of BJOG on Obesity, 2006;

Editor of special issue of BJOG on Reproductive Health of Adolescents, 2010.

Associate editor of *Human Reproduction,* 2001 – 2005; 2011 - 2015.

Member of “Ad Hoc” Editorial Board, *Fertility and Sterility,* 2001 – 2009.

Associate editor of *Clinical Endocrinology*, 2003 – 2008.

Co-editor of the *Journal of the British Fertility Society*, 1996 - 1998

Co-editor of *Human Fertility,* 1998 - 2004.

Advisory Board of *Human Fertility,* 2004 - 2018.

Editorial Board *Expert Review of Obstetrics and Gynecology*, 2005 – 2015.

Member of Editorial Board *Facts, Views and Visions in ObGyn*, 2009 – 2012.

Editorial Board, *Pathways to Pregnancy*, 2005 - 2009.

Editorial Board *Seminars in reproduction*, 2010 – 2016.

#### Refereeing

Reviewer for the Cochrane Collaboration;

Regular referee for scientific journals including: *British Medical Journal, Human Reproduction, Fertility & Sterility, British Journal Obstetrics & Gynaecology, Human Fertility, Clinical Endocrinology, Ultrasound in Obstetrics & Gynaecology, Reproductive Medicine on Line, Journal of Clinical Investigation, European Journal Obstetrics & Gynaecology, Gynecologic and Obstetric Investigation etc..*

Referee for grants on behalf of: The MRC, Wellcome, Wellbeing, Regional Health Authorities, SHERTS; The Netherlands Healthcare Efficiency Programme, British Heart Foundation, Belgian Research Council.

Referee and co-author for *The Drug and Therapeutics Bulletin*, 2001 – present.

Referee for the European Society of Human Reproduction and Embryology, 1999 –.

Referee for the Human Fertilization and Embryology Authority, 1999 – present.

Abstract refereeing for meetings: ESHRE, RCOG, BFS

Guideline referee, RCOG, 2002 - present.

Chair of ESHRE, Young Clinician Prize Committee, 2004 – 2010.

Referee for young scientist prize, Turkish Academy of Science 2008.

Referee for FRIGGA, Ferring International Grant awards body, 2008.

**Audit**

1997: Endocrine investigation of infertility - prolactin measurements

1998: Thyroid function tests in the investigation of infertility

1999: RCOG Guidelines in management of menorrhagia and Infertility

1999: Serum hCG measurements for diagnosis of pregnancy after IVF

2000: Bar-coded endocrine measurements in the gynaecology clinic.

2003: Evaluation of time taken for surgical management of miscarriage.

2004: Evaluation of patient information leaflets on laparoscopy (written by AHB).

2005: Audit of patients attending adolescent gynaecology clinic.

2005: Audit of ovulation induction service.

2006/7: Audit of HSG versus Laparoscopy.

2009/10: Audit PAG Service, Leeds and dilator outcomes.

2012: Antibiotic use in the RMU.

2010-2022: responsible for annual submitted audits of all IVF SOPs and protocols.

**Commercial Consultancies andInternational Advisory Boards**

Wallace Women’s Healthcare: Consultant, 1995-1997, 2002 – 2004.

Shire Healthcare, Adept Advisory Board, 2001-4.

Organon Laboratories Ltd, Cambridge: Member Advisory Board, 1998-2009.

Organon International Advisory Board on novel gonadotrophins, 2001 – 2009.

Serono European Advisory Board on Infertility, 2003 – 2009.

Serono International Advisory Board on Ovulation Induction, 2004 – 2006.

Ferring International Advisory Board on Prions in Infertility, 2002 – 2016.

Ferring International Advisory Board, Developments in Infertility Therapy, 2002.

Clear Blue Medical Advisory Board, 2014 – present.

OvaScience Ethics Committee, 2015 - 2017.

Chair of the Clinical Board, IVI UK, 2016 - 2018.

### Business Interests

NHS Consultant in Reproductive Medicine and Clinical Lead for Leeds Fertility (formerly Leeds Centre for Reproductive Medicine), which performs all fertility treatments funded by the NHS.

Partner in Genesis Healthcare LLP, the private arm of Leeds Fertility, which performs self-funded fertility treatments using identical protocols to the NHS.

Director of Balance Reproductive Health Ltd, personal company for private fertility consultations and treatment.

Partner in Balance Health Ltd, Balance Mind Ltd and Balance Fertility Ltd, with partner Grace Dugdale. These are private companies for enhancing the management of and education in reproductive health. See [www.Balancefertility.co.uk](http://www.Balancefertility.co.uk)

Medico-legal work on a regular basis with approximately 50:50 for defendant and claimant.

**Invited Lectures of International Standing (\*major plenary lectures)**

1. \* The control of luteinising hormone secretion in women with the polycystic ovary syndrome. *World Congress on Human Reproduction, Bali, April 1993.*

2. \* Induction of ovulation for the management of anovulatory infertility.

*British Fertility Society, Oxford, December 1993.*

3. Assisted Conception - better than natural conception?

*Congress of the European Society for Gynecologic and Obstetric Investigation,*

*Madonna di Campiglio, Italy, February 1994*.

4. Assisted Reproduction Techniques - hopes and reality.

*Irsee Symposium on Assisted Reproduction, Munich, Germany, February 1994.*

5. The investigation and treatment of infertility*. "G.P.'94", Birmingham, May 1994.*

6. New insights into the control of LH secretion.

*Ovarian Club, Royal Society of Medicine, May 1994.*

7. \* Hypersecretion of LH and the polycystic ovary syndrome.

*Green Armytage Anglo-American Prize Lecture,*

*Royal College of Obstetricians and Gynaecologists, Symposium on Infertility,*

*Edinburgh, June 1994.*

8. \* LH and miscarriage.

*Early Pregnancy Symposium, Royal Society of Medicine, January 1995.*

9. What’s new in infertility?

*R.C.O.G. Diplomates’ Meeting, Southampton, April 1995.*

10. \* Selection and management of ovulation induction therapy.

*Infertility, R.C.O.G., London, June 1995.*

11. Ovulation induction for PCOS. *Organon expert meeting on infertility,*

*Montego Bay, Jamaica, November 1995.*

12. \* Management of infertility in PCOS.

*Royal Society of Medicine, Meeting on PCOS, December 1995.*

13. \* Clinical Determination of FSH. *Symposium on FSH Standardisation,*

*National Institute of Biological Standards and Control, March 1996.*

14. \* Risk Management in Ovulation Induction.

*British Endocrine Society, Dublin, March 1996.*

15. \* PCOS: Menstrual disturbances and endometrial cancer.

*R.C.O.G. meeting on Amenorrhoea, London, March 1996.*

16. Stimulation Regimens in IVF. *Organon expert meeting on infertility,*

*Montego Bay, Jamaica, November 1996.*

17. Current Understanding of PCOS. *Merseyside Family Planning Course,*

*Warrington, April 1997.*

18. Metformin for PCOS. *Serono Seminars, Morzine, March 1998.*

19. \* Ovulation induction. RCOG Study Group on evidence-based infertility treatment, RCOG, April 1998.

20. Hormone replacement therapy. Reproductive toxicology.  *Leeds, June 1998.*

21. \* The control of ovarian aging. International Symposium on ovarian aging and failure, ESHRE and the European Menopause Society. *Brussels, September 1998.*

22. \* Surgical management of PCOS. International Symposium on Reproductive Health and Infertility, To mark retirement of Professor Howard Jacobs, Royal College of Physicians, *London, September 1998.*

23. Laparoscopic treatment of PCOS. Joint RCOG/BSGE Meeting, RCOG, *London, November 1998.*

24. \* Ovulation induction for PCOS. RCOG/BFS Meeting: Evidence-based fertility treatment, RCOG, November 1998.

25. Low dose regimens for ovulation induction in PCOS. International Consensus PCOS meeting, *Athens, November 1998.*

26. Low dose regimens for ovulation induction in PCOS. Middle-Eastern Fertility Society*, Amman, November 1998.*

27. \* Endocrine disorders in Epilepsy. European Epilepsy Society, *Birmingham,* *April 1999.*

28. \* Low dose regimens for ovulation induction in PCOS. ESHRE, *Tours, June 1999.*

29. Endocrine determinants for ovulation induction. Organon Symposium, *Cancun, Mexico, Nov 1999.*

### 30. \* Ovulation Induction for PCOS. BFS, *Bath, January 2000.*

31. \* Sport, exercise and the menstrual cycle. Sports Gynaecology, RCOG, *London, February 2000.*

32. \* Amenorrhoea, oligomenorrhoea and polycystic ovary syndrome. Disorders of the Menstrual Cycle, RCOG Study Group*, London, March 2000.*

33. \* Assisted Conception. Obstetrics & Gynaecology, Frontiers for the Future, Royal College of Physicians, *London, March 2000.*

34. Funding for Infertility Care. *Serono Seminars, Villars, France, March 2000.*

35. What’s new in polycystic ovary syndrome. Faculty Family Planning and Reproductive Health Annual Conference, *London, May 2000.*

36. \* Investigations for polycystic ovary syndrome; NEQAS satellite symposium at *Pathology 2000*, *Birmingham, May 2000.*

37. CHILD Prize Lecture, CHILD Annual Conference, *Warrington, May 2000.*

38. The role of LH in folliculogenesis. University College Hospital course on Reproductive Medicine, *London, June 2000.*

39. \* Ovulation induction for PCOS. Fertility 2000, joint meeting of BFS, SSF and BAS. Edinburgh, July 2000.

40. The role of LH in ovulation induction. Fertility 2000, joint meeting of BFS, SSF and BAS. Edinburgh, July 2000.

41. \* Assisted Conception, Royal Society of Medicine General Practitioners Annual Conference, *London September 2000.*

42. \* Polycystic ovary syndrome – A normal variant? FFP/RCOG Joint Meeting. Royal College of Physicians, *London, September 2000.*

43. \* Amenorrhoea, oligomenorrhoea and polycystic ovary syndrome. Disorders of the Menstrual Cycle, RCOG*, London, November 2000.*

44. Ovulation induction. Fertility Research Organising Group Educational Meeting, *RCOG London, February 2001.*

45. New Thoughts on the pathogenesis of PCOS. BFS Educational Meeting, *Villars, Switzerland, March 2001.*

46. \* Surgical management of PCOS. ESHRE Campus Workshop on Endoscopic Surgery. *London, April 2001.*

47. Current understanding of polycystic ovary syndrome. Portuguese National Gynaecological Society, Annual Meeting, *Porto, June 2001.*

48. Advances in assisted conception – The Leeds Experience. Portuguese National Gynaecological Society, Annual Meeting, *Porto, June 2001.*

49. \* Paternal inheritance of mitochondrial DNA in trophoblast. ESHRE, *Lausanne, July 2001.*

50. \* Fertility Aspects of PCOS. British Congress of Obstetrics & Gynaecology, *Birmingham July, 2001.*

51. \* Polycystic Ovary Syndrome – Does National Opinion Matter? Symposium on Polycystic Ovary Syndrome, IFFS, *Melbourne, November 2001.*

52. The management of PCOS. RCOG Diplomates Meeting, *London, December 2001.*

53. The role of ovarian diathermy in PCOS. Frontiers in Reproductive Surgery, RCOG, London, February 2002.

54. \* The surgical treatment of PCOS. 11th World Congress on Human Reproduction, Montreal, Canada, June 2002.

55. Metformin in PCOS – does the hype match the reality? FROGs Annual Meeting, RCOG, June 2002.

56. Ovulation Induction and Assisted Conception, National Infertility Day, London, June 2002.

57. Current Understanding of PCOS. Ceylon College of Physicians Annual Academic Sessions, Colombo, September 2002.

58. The Management of Intersex. Ceylon College of Physicians Annual Academic Sessions, Colombo, September 2002.

59. \* PCOS: Senior Staff Conference, RCOG, London, November 2002.

60. \* Ovulation Induction, BFS/RCOG Evidence Based Management of Infertility, RCOG, London, December 2002.

61. PCOS in Adolescence, RCOG/MSSVD Meeting, RCOG, London December 2002.

62. PCOS – Body image and quality of life. Joint RCOG/BSPOGA Meeting, RCOG, London, March 2003.

63. PCOS in Adolescence. 4th Annual Meeting of The British Society for Paediatric and Adolescent Gynaecology, London, March 2003.

64. Intersex conditions and infertility. Northern England Fertility Nurses Workshop, Harrogate, April 2003.

65. \* Ovarian Surgery for PCOS, ASRM/ESHRE Consensus Workshop on PCOS, May 1st-4th 2003, Rotterdam.

66. \* Ultrasound in the Diagnosis of PCOS, ASRM/ESHRE Consensus Workshop on PCOS, May 1st-4th 2003, Rotterdam.

67. Adolescent Gynaecology and Intersex. SPROGS Meeting, Belfast, May 2003.

68. Long term health risks in PCOS. FROGs Meeting, RCOG, London, June 2003.

69. \* Laparoscopic surgery for PCOS. ESHRE, Madrid, July 2003.

70. \* PCOS – Nomenclature and Diagnostic Criteria. ESHRE, Madrid, July 2003.

71. \* Is PCOS an Ovarian Disorder? *Key Note Lecture in Opening Ceremony.* First International Meeting supported by the Androgen Excess Society on PCOS, Antalya, Turkey, September 2003.

72. PCOS and Cancer. PCOS Meeting, Antalya, Turkey, September 2003.

73. \* The role of insulin resistance in PCOS. Royal Australia and New Zealand College of Obstetricians and Gynaecologists Annual Scientific Meeting, Auckland, September 2003.

74. \* Reconstructive Surgery for Intersex Conditions. Royal Australia and New Zealand College of Obstetricians and Gynaecologists Annual Scientific Meeting, Auckland, September 2003.

75. \* PCOS – Nomenclature and Diagnostic Criteria. ASRM, San Antonio, October 2003.

76. PCOS – Management of Infertility. Senior Staff Conference, RCOG, London, November 2003.

77. \* Genetics of PCOS. Updates in Infertility Treatment, Florida, January 2004.

78. \* The use of metformin for PCOS. Updates in Infertility Treatment, Florida, January 2004.

79. New Defintions of PCOS, British Fertility Society, Cheltenham, April 2004.

80. Ovulation Induction: optimizing results, minimizing risks, British Fertility Society, Cheltenham, April 2004.

81. \*Evidence Based Management of Anovulatory Infertility. Joint ESHRE, RCOG Meeting, London, April 2004. Meeting organizer; introductory talk and presentation for summing up.

82. PCOS and ovulation induction. National Fertility Day, London, June 2004.

83. Management of Intersex. The European Society of Human Reproduction and Embryology, Berlin, July 2004.

84. \*The use of metformin for PCOS. The European Society of Human Reproduction and Embryology, Berlin, July 2004.

85. PCOS and ovulation induction. The European Society of Human Reproduction and Embryology, Berlin, July 2004.

86. Pathophysiology of intersex, CAH and testicular feminization. Subspecialty Trainees meeting, RCOG London, September 2004.

87. Physiology of menarche. Subspecialty Trainees meeting, RCOG London, September 2004.

88. PCOS: A condition of our time? Fothergill Society, RCOG, London, October 2004.

89. Ovulation induction and IUI. Joint BFS, FROG and NIAC meeting on the NICE Guidelines in Infertility, RCOG, London, October 2004.

90. PCOS. Frontiers in Reproductive Medicine. RCOG, London, October 2004.

91. \* PCOS: A condition of our time? Blair Bell Prize Lecture, Senior Staff Conference, RCOG, London, November 2004.

92-94. Evidence Based Use of Gonadotropins. Gothenberg & Stockholm, Sweden and Oslo, Norway. Three consecutive days, traveling lectureship for launch of Menopur, sponsored by Ferring Pharmaceuticals.

95-98. \* Schellekens Foundation Visiting Professorship 2004, Maastricht and Nijmegen, The Netherlands, December 2004. Three lectures on Polycystic Ovary Syndrome and Intersex.

99. PCOS in Adolescents. British Society for Paediatric and Adolescent Gynaecology, AGM, Cambridge, February 2005.

100. Fertility Winter Meeting. Debate: Cost effectiveness and safety of gonadotropins. Val D’Isere, March 2005.

101-2. \* 1) Defining PCOS; 2) OI in PCOS; European Society for Clinical Investigation. PCOS Symposium, Athens, April 2005.

103. PCOS: A condition of our time? Endocrinology Symposium, Rudding Park, Leeds, May 2005.

104. PCOS. Dublin Gynaecological Visiting Soiciety, Leeds, May, 2005

105. \* Obesity in Adolescents. ESHRE, Pre-Congress Workshop, Coppenhagen, June 2005.

106. Paediatric and Adolescent Gynaecology. Paediatrics Radiology, Leeds, July 2005.

107-9. 1) PCOS, 2) Intersex, 3) Ovulation Induction. South African Obstetrics and Gynaecology, Annual Meeting, September, 2005.

110. PCOS and Obesity. Obesity Conference, RCOG, London, October 2005.

111. \*The Clinical Meaning of the Polycystic Ovary. Peacocks Meeting, Avallon, France, October 2005.

112. Defining PCOS. British Medical Ultrasound Society, December 2005.

113. PCOS and Miscarriage. ESHRE Campus workshop, Liverpool, December 2005.

114. Metformin for PCOS. FROGs, RCOG, London, December 2005.

115. PCOS. Opening of new Reproductive Medicine unit, Warwick. December 2005.

116. Reproductive competency following laparoscopic ovarian surgery for PCOS. Updates in Infertility, Cape Town, South Africa, January 2006.

117. Diagnosis of PCOS – A practical guide to investigation. PCOS UK Inaugural Meeting, London, February 2006.

118. Pathophysiology of intersex, CAH and AIS. Science for Subspecialists, RCOG, April 2006.Debate: Metformin in PCOS.

119. Physiology and pathology of menarche. Science for Subspecialists, RCOG, April 2006.

120. Debate: Metformin is the treatment of choice for PCOS. European Society of Endocrinology. Glasgow, April 2006.

121. PCOS: new meanings to an old problem. Scandinavian advances in ART, Coppenhagen, Denmark, April 2006.

122. PCOS and anovulatory infertility. RCOG/BFS Meeting on Infertility, London, April 2006.

123. Defining PCOS. Israeli Fertility Society, Jerusalem, Israel, May 2006.

124. PCOS, insulin resistance and the evidence for metformin. Nordic Gynecology Conference, Gothenberg, Sweden, May 2006.

125. PCOS and Metformin. FROGs study day, RCOG, London, June 2006.

126. Lifestyle issues and fertility, National Infertility Day, London, June 2006.

127. Obesity and ART, British Fertility Society, Glasgow, September 2006.

128. PCOS and Cancer. Serono Symposium on Reproduction and Cancer, Barcelona, September 2006.

129. PCOS: A condition of our time. French Society of Gynecology, Paris, October 2006.

130-133. Hypogonadotrophic hypogonadism; PCOS definitions, pathophysiology of PCOS, ovarian drilling. ESHRE/ASRM Pre-Congress Course. American Society for Reproductive Medicine, New Orleans, USA, October 2006.

134. Implantation in PCOS. American Society for Reproductive Medicine, New Orleans, USA, October 2006.

135. Amenorrhoea. Senior Staff Conference, RCOG, November 2006.

136. British Fertility Society, Management of Infertility: Ovulation Induction in PCOS, RCOG, London, January 2007.

137. RCOG Scientific Study Group on Obesity. PCOS, obesity, insulin resistance and reproductive health. RCOG, London, February 2007.

138. ESHRE/ASRM Consensus on Management of PCOS, Thessalonniki, Greece, March 2007: Diagnostic Criteria.

139. ESHRE/ASRM Consensus on Management of PCOS, Thessalonniki, Greece, March 2007: Laparoscopic ovarian diathermy: mechanisms of action.

140. Management of Infertility in PCOS, British Endocrine Society, Birmingham, March 2007.

141. PCOS Session – organiser and speaker on diagnosis and definitions. British Fertility Society, York, April 2007.

142. Insulin sensitizers in PCOS, Dutch-Flemish Annual IGO Meeting, Rotterdam, April 2007 (Plenary Lecture).

143. PCOS, insulin resistance and reproductive function. Royal Society of Medicine, Endocrine Section, London, May 2007.

144-146. 3 lectures: Pre-Congress Educational Course: Diagnostics approaches in PCOS and androgen excess; Medical management of hirsutism; Main Symposium: Management of developmental anomalies. European Society for Human Reproduction and Embryology, Lyon, France, July 2007.

147. Menstrual Disturbance in Adolescents, British Congress Obstetrics and Gynaecology, London, July 2007.

148. Diagnosis of PCOS. PCOS UK, York.

149. Peacocks Meeting, Sienna, September 2007. Cycle Disturbances in Adolescents with PCOS.

150. Management disorders sexual differentiation Paediatric and Adolescent determinants of Reproductive Health. Serono Symposium, Edinburgh, October 2007.

151. RCOG SSG on Obesity, open meeting. PCOS, obesity, insulin resistance and reproductive health. RCOG, London, October 2007.

152. Obesity and PCOS. National Obesity Forum, Annual Meeting, Royal College Physicians, London, October 2007.

153. ESHRE/RCOG Meeting on PCOS: Definitions, introductory lecture. RCOG, London, November 2007.

154. Debate: Pro and Cons of Egg Freezing. Senior Staff Conference, RCOG, London, November 2007.

155. RCOG/BSGE Joint Meeting: How my practise has changed in Reproductive Surgery. RCOG, London, December 2007.

156. Management of PCOS, Medical and diagnostic gynaecology, RCOG, London, March 2008.

157. Insights into paediatric and adolescent gynaecology, Fertility Winter Meeting, Courchevel, France, March 2008.

158. Update in use of metformin for PCOS, British Endocrine Society, Harrogate, April 2008.

159. Update in ovulation induction for PCOS, British Fertility Society, RCOG, London, April 2008.

160. Making the diagnosis of PCOS. PCOS UK, Birmingham, April 2008.

161. Management of anovulatory PCOS, International Meeting on Reproductive Medicine, St Bartholomew’s Hospital, London, May 2008.

162 & 163. Update in paediatric and adolescent gynaecology **and** What’s new in PCOS. *SPROGs* Meeting, York, June 2008.

164. The effect of obesity on reproductive outcome. Serono International Symposia, Barcelona, July 2008.

165. The health needs of adolescents. ESHRE Annual Meeting, Barcelona, July 2008.

166. PCOS and infertility. National Infertility Day, London, July 2008.

167. The effect of obesity on reproductive outcome. Bariatric Surgery and Reproduction, Imperial College, London, September 2008.

168. \* What’s new in PCOS? RCOG, 7th International Meeting, Montreal, September 2008.

169. Management of infertility in PCOS. McGill Symposium on reproductive endocrinology and infertility, Montreal, September 2008.

170. How to publish in the BJOG. RCOG, 7th International Meeting, Montreal, September 2008.

171. PCOS in adolescents. British Society for Paediatric and Adolescent Gynaecology, London, January 2009.

172. Disorders of Sexual Development and Differentiation. Dutch Society for Obstetricians and Gynaecologists, Arnhem, Holland, January 2009.

173. PCOS in adolescents. British Society for Paediatric Endocrinology and Diabetes. York, March 2009.

174. \* Victor Bonney Prize, RCOG. *Disorders of Sexual Development and Differentiation. How, where and When? London,* April 2009.

175. Management of infertility in PCOS. BFS/RCOG Meeting, London, April 2009.

176. Induction of Ovulation in PCOS, Mediterranean Society for Reproductive Medicine, Florence, May 2009.

177. Defining PCOS. FOCUS, Liverpool, May 2009.

178. \*Debate: “Putting our future on ice”, against the case for social egg freezing. ESHRE, Amsterdam, July 2009.

179. What’s New in PCOS? Association of Mauritians in Obsteterics and Gynaecology. Appollo Bramwell Hospital, Moka, Mauritius, August 2009.

180. Paediatric and Adolescent Gynaecology: Disorders of Sexual Developmet: Where, When and How? Association of Mauritians in Obsteterics and Gynaecology. Appollo Bramwell Hospital, Moka, Mauritius, August 2009.

181. Pathophysiology of Disorders of Sexual Development and Differentiation, Science for Subspecialties, RCOG, September 2009.

182. The meaning of the polycystic ovary. Peacocks Meeting, Istanbul, September 2009.

183. PCOS. British Society for Paediatric Dermatology. Leeds, November 2009.

184. Hyperandrogenism in women – diagnosis and management. ESHRE Campus Workshop, Budapest, Hungary, December 2009.

185, 186. Polycystic ovary syndrome, and Reproductive consequences of obesity, RCOG International Scientific Meeting, Abu Dhabi, UAE, December 2009.

187, 188. Defining PCOS. Laparoscopic ovarian surgery for PCOS. RCOG Scientific Study Group, RCOG London, February 2010.

189. Management of infertility in PCOS. BFS/RCOG Meeting, London, April 2010.

190, 191. Causes of anovulatory infertility. Management of PCOS. ESHRE, Kiev, May 2010.

192. PCOS – A condition of our time. Alexander Gordon Lecture, Aberdeen, June 2010.

193. \* Investing and managing infertility. RCOG International Scientific Meeting, Belfast, June 2010.

194. Causes of anovulatory infertility. ESHRE, Rome, June 2010.

195. PCOS. British Association of Dermatology, July 2010.

196-198. PCOS: diagnosis; Investigations; LOD. PCOS Updates Meeting, Santiago, Chile, August 2010.

199. Obesity and Reproduction. ESHRE Campus Budapest, September 2010.

200-201. Defining PCOS. Laparoscopic ovarian surgery for PCOS. RCOG London, October 2010.

202, 203. \* PCOS in Adolescents. Obesity in PCOS. ESHRE Campus, Consensus meeting PCOS, Amsterdam, November 2010.

204, 205. Update in PCOS. Ovulation induction. RCOG Senior Staff Conference, November 2010.

206. PCOS update. Serono Symposium, Barcelona, November 2010.

207, 208. PCOS Update; Algorithms for ovulation induction. BFS, Dublin. January 2011.

209. \* PCOS – definitions and diagnosis. Royal Society of Medicine, Section of Obstetrics and Gynaecology, London, January 2011.

210. PCOS and anovulatory infertility. RCOG / BFS training course, London, April 2011.

211.Obesity and reproduction. ESHRE Campus workshop, Southampton, May 2011.

212. \* Fetal outcomes from ovulation induction. ESHRE Capri Workshop, Capri, August 2011.

213, 214. PCOS; Algorithms for ovulation induction. ESHRE Campus training workshop, St Petersburg, September 2011.

215. \* PCOS. BICOG, Athens, September 2011.

216-218. Defining PCOS; PCOS and Adolescence; Long term health risks of PCOS. ESHRE Campus workshop on PCOS, Sofia, December 2011.

219. Debate: opposing the motion *Complementary therapy significantly improves fertility.*  British Fertility Society, Leeds, January 2012.

220. PCOS and anovulatory infertility. RCOG / BFS training course, London, April 2012.

221. Understanding the NICE Guidance on Infertility. RCOG, Senior Staff Conference, London, December 2012.

222. \* PCOS and pregnancy outcome. NIH Consensus Meeting, Bethesda, Maryland USA, December 2012.

223. \* Consensus on health aspects of PCOS. British Endocrine Society, Harrogate. March 2013.

224. Overview of PCOS. Leeds meeting to celebrate 70th birthday of Professor Roy Homburg, Leeds. March 2013.

225. Causes of anovulatory infertility. RCOG / BFS training course, London, April 2013.

226. Ovarian Surgery: who, when, how? French Society Reproductive Medicine, Lille, France. May 2013.

227. Race/Ethnicity must be considered in the diagnosis and management of PCOS. Peacocks Meeting, Orange, France, September 2013.

228. \* Consensus on health aspects of PCOS. ESHRE Campus workshop on PCOS, Rome, Italy. October 2013.

229. PCOS and miscarriage. Association of Early Pregnancy units, Annual Meeting, Leeds, November 2013.

230. Update on diagnosis and management of PCOS. British Fertility Society, Annual meeting, Sheffield. January 2014.

231. Should there be an age limit for ART? Debate. ESHRE/ASRM meeting, Cortina, Italy, March 2014.

232. Causes of anovulatory infertility. RCOG/ BFS training course, London, April 2014.

233. Update on PCOS, National Association of Premenstrual Syndrome, Annual Meeting, Leeds, May 2014.

234. \*Ovulation induction, from now on. SISMER annual meeting, Venice, September 2014.

235. \*The evolution and revolution of infertility treatment. The First Professor Subhas Mukerjee memorial lecture. Kolkata, India, November 2014.

236. An update on the management of PCOS. Infertility Update Meeting. Kolkata, India, November 2014.

237. Ovulation induction into the future. Infertility Update Meeting. Kolkata, India, November 2014.

238. Defining PCOS. Radiology Meeting, Leeds.

239 / 240 Dubai, Fakih IVF International Meeting: An update on the management of PCOS; Ovulation induction into the future.

241. \*Jack Dewhirst Memorial Prize Lectureship, British Society for Paediatric and Adolescent Gynaecology, March 2015, London: The evolution of PCOS through adolescence and beyond.

242. Mark Hamilton Retirement Meeting, Aberdeen, April 2015: *You can have any treatment as long as it’s IVF.*

243. \*PCOS in adolescents: assessment and health related quality of life. ESHRE Annual Meeting, Lisbon, June 2015.

244. Latest advances and controversies in Reproductive Medicine. Gynaecological Travellers Meeting, Leeds, November 2015.

245. Update on PCOS, RCOG Senior Specialists Meeting, London, November 2015.

246. PCOS: a 30 year journey from Lebowa to Leeds, Royal Society of Medicine, London, January 2016.

247. Ovulation induction and anovulatory infertility. RCOG/ BFS annual course, London, April 2016.

248. \*Update on PCOS, RCOG World Congress, Birmingham, June 2016.

249. \*The management of high responders. ESHRE, Helsinki, 2016.

250. Update on PCOS, FSRH Annual Meeting, London, November 2016.

251. \*Update on PCOS, Fertility 2017, Edinburgh, January 2017.

252. The evolution of reproductive medicine: how far have we come and where are we going. Public Lecture, Cardiff University, March 2017.

253. Ovulation induction and anovulatory infertility. RCOG/ BFS annual course, London, March 2017.

254. \*The spectrum of PCOS. Sri Lanka Medical Association, Annual medical Congress, July 2017.

255. \*The future of reproductive medicine. Sri Lanka Medical Association, Annual medical Congress, July 2017.

256. \*Delivering fertility health education to schools. Sri Lanka Medical Association, Annual medical Congress, July 2017.

257. 40 years of IVF, where have we come from and where are we going? Glasgow Obstetrics and Gynaecology Society, October 2017.

258. Management of disorders of sexual development. RCOG Annual Trainees meeting, Leeds, November 2017.

259. Ovulation induction and anovulatory infertility. RCOG/ BFS annual course, London, March 2018.

260. \*The role of IVF in the management of PCOS. Pre-congress Course, ESHRE, Madrid, July 2018

261-3. \*3 lectures: Management of problems during puberty; PCOS from adolescence to menopause; 40 years of IVF - where have we come from and how far should we go? RANZCOG Annual Meeting, Adelaide, September 2018.

264. 40 years of IVF, where have we come from and where are we going? Gynaecological Club, RCOG, London, October 2018.

265. PCOS - No longer an enigma? Oxford Reproductive Medicine Group, Merton College Oxford, November 2018.

266. Ovulation induction and anovulatory infertility. RCOG/ BFS annual course, London, April 2019.

267. \*Defining menstrual cycle disturbances. ESHRE Campus Workshop on PCOS, Bilbao, May 2019.

268. Updates in Ovulation Induction. RCOG Congress, London, June 2019.

269. Hirsutism after the menopause. RCOG Meeting on post-reproductive years. RCOG, London, October 2019.

270. Challenges and Collaborations in Reproductive Medicine in Leeds. Consultants’ Conference, Excellence in Leeds, Leeds, September 2019.

271. Fertility education initiative in young people. BritSPAG Annual Meeting, RCOG, London, March 2020 (delivered remotely because of COVID-19).

The following invitations were cancelled because of COVID-19:

1. Ovulation induction and anovulatory infertility. RCOG/BFS course, London, April 2020
2. Reproductive Medicine - how far have we come and how far should we go? Plymouth Medical Society, May 2020.
3. Surgery for DSDs. European Society of Paediatric and Adolescent Gynaecology, Rotterdam, June 2020.
4. An update on PCOS. International PCOS Meeting, Stockholm, April 2020.
5. Ovulation Induction for PCOS. International PCOS Meeting, Stockholm, April 2020.
6. The effect of Air Pollution on Fertility. The Air That You Breath Conference, Department of Public Health, Leeds July 2020.

272. \*Achieving success in a national campaign for improving fertility education in schools. ESHRE, Copenhagen, July 2020 (delivered remotely because of COVID-19).

273. RCOG MENA Webinar on Assisted Reproduction, July 2020.

274. IVF Worldwide, The management of infertility in women with PCOS, July 2020 (delivered remotely).

275. PCOS - have we unravelled the enigma? Indian national meeting on infertility, August 2020 (delivered remotely).

276. An update on PCOS. Royal Society of Medicine, London, April 2021 (remotely).

277. Ovulation Induction for PCOS. BFS/RCOG, April 2021 (delivered remotely).

278. Update on PCOS. **AICC RCOG** session in the **36th POGS Installation Conference-STAR-OG, India,** April 2021 (delivered remotely).

279. Metabolic aspects of PCOS. RCOG World Congress, June 2021(delivered remotely).

280. ESHRE - Optimising health prior to IVF, July 2021 (delivered remotely).

281. PCOS and the menopause: health implications, RCOG, London, October 2021 (delivered remotely).

282. Are we at the beginning of the end? CARE national conference, Nottingham, November 2021.

283. PCOS and the menopause: health implications, RCOG, India North Annual Conference, London, December 2021 (delivered remotely).

284. Ovulation Induction for PCOS. BFS/RCOG, April 2022 (delivered remotely).

285. PCOS Guidelines. Egyptian Fertility Society Cairo, June 2021 (delivered remotely).

286. Classifying Disorders of Ovulation. RCOG World Congress, London, June 2022.

287. Air Pollution and Reproductive Health. The Air That You Treat Conference, Leeds, October 2022.

288. Ovulation Induction for PCOS. BFS/RCOG, annual training course. April 2023 (delivered remotely).

289. New guidelines for management of infertility for PCOS. ESHRE Annual Meeting, Copenhagen, June 2023.

290. Reflections on the Amsterdam Consensus. 20th Anniversary Meeting of the Rotterdam Consensus, Rotterdam, October 2023.

**Invited Lectures around the UK**

**1993:** Charing Cross Hospital, London

Brunel University, Uxbridge, Middlesex

Bourn Hall, Cambridge

CHILD Conference, Bristol

**1994:** Hammersmith Hospital, London

St Thomas’ Hospital, London

Bourn Hall, Cambridge

**1995:** Liverpool University Medical School

Victor Bonney Society, London

Green College, Oxford

CHILD Conference, Surrey

J.O.G.S., London

Cambridge University x 2

NURTURE, Nottingham

**1996:** St Thomas’ Hospital, London

Yorkshire Reproductive Medicine Group, York University

Bourn Hall, Cambridge

CHILD conference

Chelsea & Westminster Hospital, London

Meet The Experts, Northampton

**1997:** Leeds Postgraduate Meeting

Merseyside Family Planning Course

RCOG, Part 2 revision course

LGI G.P. Study evening

Various G.P. meetings

Serono Insights Meeting

CHILD conference

Meeting on the PCOS, North Middlesex Hospital, London

Postgraduate meeting, York

Meet The Experts, Leeds

**1998:** Leeds Postgraduate Meeting

Various G.P. meetings in Yorkshire

Bourn Hall, Cambridge

Postgraduate meeting, Harrogate

Family Planning Meeting, Leeds

CHILD conference

RCOG, Part 2 revision course

ALIAS support group

Hammersmith Hospital, London

**1999:** Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire

Cambridge University;

Nottingham – Endocrinology Postgraduate Meeting

**2000:** UCH, London

CHILD conference, Prize lecture

Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire

Department of Reproductive Medicine, Aberdeen.

Oxford University, Specialist Registrars training half day.

Department of Reproductive Medicine, Glasgow.

**2001:** Bourn Hall, Cambridge

Porto University, Portugal

UCH, London

North Yorkshire Gynaecological Society

Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire

Leeds – Endocrinology Postgraduate Meeting

Paris – Controversies in Obstetrics & Gynaecology

**2002:** UCH, London

Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire

Leeds – RCP, Endocrinology Postgraduate Meeting

Carlisle, Postgraduate Meeting.

Sri Lanka: Postgraduate Workshops in Reproductive Medicine.

Sheffield, Postgraduate Meeting.

**2003:** Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire.

Leeds – RCP, Endocrinology Postgraduate Meeting.

Leeds – RCP, Dermatology Postgraduate Meeting.

Nottingham, Postgraduate Meeting.

Leeds – Division of Molecular Vascular Medicine.

Leeds – Regional Meeting of Dieticians.

Copenhagen: Infertility Group – Ovulation Induction.

**2004:** Bradford, postgraduate meeting.

Northallerton, postgraduate meeting.

Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire.

Insights, Fertility Nurses Meeting, Harrogate.

British Association of Health Services in Higher Education (BAHSHE) Annual Conference, Leeds.

Yorkshire radiologists, radiographers and ultrasonographers.

Lifestyle lectures: Leeds University.

Yorkshire Family Planning Conference, Royal Armouries, Leeds.

Yorkshire, Regional Genetics Training Day on Intersex.

**2005:** Postgraduate meetings and Family Planning Meetings, Leeds & Yorkshire.

Yorkshire radiologists, radiographers and ultrasonographers.

Lifecycle lectures: Leeds University.

Yorkshire Endocrinologists and Endocrinology/RCP training for registrars.

Paediatric surgeons; GPs York.

**2006:** GPs Leeds, Wakefield, Harrogate.

Lifecycle lectures: Leeds University.

**2007:** Postgraduate meetings and Leeds & Yorkshire.

Lifecycle lectures: Leeds University.

Regional Family Planning Meeting, Yorkshire.

Debate, Leeds Uni, Ethics of Egg Freezing.

North Western Gynaecology Meeting, Windermere.

MSc Course, Clinical Embryology, Leeds.

**2008:** Postgraduate meetings and Leeds & Yorkshire.

Lifecycle lectures: Leeds University.

GP lecture, PCOS, Leeds.

MSc Course, Clinical Embryology, Leeds.

Yorkshire Oncologists Postgraduate Meeting.

**2009:** Yorkshire GPs.

UK Infertility Nurses.

CAH National patient support group, Leeds.

Fothergill Society, Leeds.

Gynaecology nurses training day, Leeds.

Central London GPs, PCOS.

Lifecycle lectures: Leeds University.

MSc Course, Clinical Embryology, Leeds.

Regional trainees, Weetwood Hall.

Medical student debate.

**2010:**  UK Infertility Nurses.

MSc Course, Clinical Embryology, Leeds.

Paediatricians and Gynaecologists, Aberdeen.

Consultants, West Yorkshire.

**2011:** GPs West Yorkshire.

UK Infertility Nurses.

MSc Course, Clinical Embryology, Leeds.

Paediatricians, Yorkshire.

Consultants, West Yorkshire.

**2012:** GPs West Yorkshire.

MSc Course, Clinical Embryology, Leeds.

Consultants, West Yorkshire.

**2013:** GPs West Yorkshire.

UK Infertility Nurses.

Consultants, West Yorkshire.

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**2014:** GPs West Yorkshire & UK.

UK Infertility Nurses.

UK radiologists.

**2015:** GPs West Yorkshire & UK.

Yorkshire regional trainees meeting.

UK Infertility Nurses.

**2016:** GPs West Yorkshire & UK.

Yorkshire regional trainees meeting.

Schoolchildren / 6th Formers through BFS.

**2017:** GPs West Yorkshire & UK.

Yorkshire regional trainees meeting.

Yorkshire endocrinology training day.

UK Infertility Nurses annual meeting.

**2018:** GPs West Yorkshire: Leeds & Harrogate.

Yorkshire regional trainees meeting.

GP trainees - Leeds; and GPs Yorkshire (several training sessions this year).

Yorkshire O&G Consultants’ annual meeting.

**2019:** GPs West Yorkshire.

Yorkshire regional trainees meeting.

GP trainees - Leeds; and GPs Yorkshire.

UK Infertility Nurses annual meeting.

**2020:** Plymouth Medical Society (cancelled because of Covid).

UK Infertility Nurses annual meeting (cancelled because of Covid).

**2021:** Paediatric Endocrinologists, Yorkshire.

Derbyshire Trust - on infertility for employees.

GP Trainees - Yorkshire.

GPs Leeds.

Endocrinologists, Yorkshire.

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**2022:** Paediatric Endocrinologists, Yorkshire.

NHSEngland, North - Covid19 vaccination and reproductive health.

**2023:** GPs, Yorkshire.

Fertility nurses, UK.

Trainees, Yorkshire.

Paediatric Endocrinologists, Yorkshire.

**PUBLICATIONS**

**H-factor 80 (>38,000 citations, Google Scholar);**

since 2018 H-factor 46, >15,000 citations.

**I. Books**

**1.** **The CTG in Practice**

Adam Balen and John Smith

Preface by Professor RW Beard

Churchill Livingstone, Edinburgh, 1992, 200 pages.

**2. Infertility in Practice**

Adam Balen and Howard Jacobs

Foreword by Professor Alan DeCherney

Churchill Livingstone, Edinburgh, 1997, 400 pages.

**3. Reproductive Endocrinology for the MRCOG and beyond**

Adam Balen, R.C.O.G. Press, London, 2003, 130 pages.

#### 4. A Multi-Disciplinary Approach to the Management of Paediatric and Adolescent Gynaecology

Adam Balen – Editor-in-chief,

co-editors: Sarah Creighton, Melanie Davies, Jane MacDougall, Richard Stanhope

Cambridge University Press, Cambridge, 43 chapters, 2004, 600 pages.

*Highly Commended in BMA Medical Book Awards, 2005.*

**5. Coping With Polycystic Ovary Syndrome – A Patient’s Guide**

Christine Craggs-Hinton & Adam Balen. Sheldon Press, London, 2004, 110 pages.

*Also published in North America as:* **Positive Options for Polycystic Ovary Syndrome – Self-Help and Treatment,** Hunter House, Berkely CA, 2004, 131 pages.

**6. Infertility in Practice,** ***Second Edition***

Adam Balen and Howard Jacobs

Foreword by Professor Ian Cooke

Churchill Livingstone/Harcourt Brace, London, 2003, 489 pages; 1st reprint: 2004;

2nd reprint: 2005; translated into Greek & Spanish, 2005.

#### 7. Clinical Management of Polycystic Ovary Syndrome

#### Adam Balen – Editor-in-chief, with co-editors: G. Conway, R. Homburg, R. Legro

Taylor & Francis, London & New York, 2005, 234 pages. 1st reprint: 2005.

*Highly Commended in the obstetrics and gynaecology category in the BMA Book Awards for 2006.*

**8. Reproductive Endocrinology for the MRCOG and beyond,** ***Second Edition***

Adam Balen, R.C.O.G. Press, London, 2007, 214 pages.

**9. Obesity and Reproductive Health.** Edited by Philip Baker, Adam Balen, Lucilla Poston and Naveed Sattar. Proceedings of 53rd RCOG Study Group, RCOG Press, London 2007.

**10. Infertility in Practice,** ***Third Edition***

Adam Balen

Foreword by Professor Paul Devroey

Informa Healthcare, London, 2008, 445 pages.

**11. Current Management of Polycystic Ovary Syndrome**. Edited by Adam Balen, Steve Franks, Roy Homburg and Sean Kehoe. Proceedings of 59th RCOG Study Group, RCOG Press, London 2010, 228 pages.

**12. Infertility in Practice,** ***Fourth Edition***

Adam Balen

Foreword by Professor Juha Tapanainen

Informa Healthcare, London, 2014, 488 pages. Translated into Chinese.

**13. Pediatric and Adolescent Gynecology.** Edited by Sarah Creighton, Adam Balen, Lesley Breech and Lih-Mei Liao. Cambridge University Press, Cambridge, UK, 2018, 165 pages. ***First prize*** *in the Obstetrics and Gynaecology category of the 2019 BMA Medical Book Awards.*

**14. The Fertility Book: Your definitive, evidence-based guide to achieving a healthy pregnancy.** Adam H Balen & Grace Dugdale, Vermilion, Penguin - Random Press, September 2021, 420 pages.

**15. 50 Big Debates in Reproductive Medicine.** Editors, Roy Homburg, Adam H Balen and Robert F Casper. Cambridge University Press, Cambridge, UK, 2022, 281 pages.

**16. Infertility in Practice,** ***Fifth Edition***

Adam Balen

Foreword by Professor Rick Legro

Informa Healthcare, London, 2022, 444 pages, ISBN 9780367557447.

**II Full papers in refereed journals**

1. Balen AH, Kurtz AB: Successful outcome of pregnancy in a patient with severe hypothyroidism and a review of the literature. *British Journal of Obstetrics and Gynaecology*, 1990; 97: 536-539.

2. Balen AH, Regan L, Owen EJ, Jacobs HS: Recurrent Miscarriage (letter). *Lancet,* 1990; 336: 1191-1192.

3. Balen AH, Jacobs HS: Gonadotrophin Surge Attenuating Factor - A missing link in the control of LH secretion? *Clinical Endocrinology*, 1991; 35: 399-402.

4. Shoham Z, Balen AH, Patel A, Jacobs HS: Results of ovulation induction using human menopausal gonadotropin or purified follicle-stimulating hormone in hypogonadotropic hypogonadism patients. *Fertility and Sterility*, 1991; 56: 1048-1053.

5. Hussein EE, Balen AH, Tan SL: A prospective study comparing the outcome of eggs retrieved in the aspirate to those retrieved in the flush during transvaginal ultrasound directed oocyte recovery for in-vitro fertilisation. *British Journal of Obstetrics and Gynaecology*, 1992; 99: 841-844.

6. Balen AH: Maternity Services: The obstetric flying squad (letter). *British Medical Journal,* 1992; 304: 1057.

7. Tan SL, Balen AH, Hussein EE, Mills C, Campbell S, Yovich J, Jacobs HS. A prospective randomised study of the optimum timing of human chorionic gonadotrophin administration after pituitary desensitisation in in vitro fertilisation. *Fertility and Sterility* 1992; 57: 1259-1264.

8. Tan SL, Balen AH, Hussein EE, Campbell S, Jacobs HS: The administration of steroids for the prevention of ovarian hyperstimulation syndrome in IVF. A prospective randomised study. *Fertility and Sterility*, 1992; 58: 378-383.

9. Tan SL, Pampiglione J, Balen AH, Mills C, Campbell S: Transvaginal Peritoneal Oocyte Sperm Transfer (POST) for the treatment of non-tubal infertility. *Fertility and Sterility*. 1992; 57: 850-853.

10. Balen AH, Tan SL, MacDougall J, Jacobs HS: Miscarriage rates following in vitro fertilisation are increased in women with polycystic ovaries and reduced by pituitary desensitisation with buserelin, *Human Reproduction*, 1993; 8: 959-964.

11. Balen AH: Polycystic ovaries in female-to-male transsexuals (letter). *Clinical Endocrinology,* 1993; 39: 703-704.

12. Balen AH, MacDougall J, Tan SL: The influence of the number of embryos transferred during in-vitro fertilization on pregnancy outcome. *Human Reproduction*, 1993; 8: 1324-1328.

13. Balen AH, Tan SL, Jacobs HS: Hypersecretion of Luteinising Hormone - A significant cause of subfertility and miscarriage. *British Journal of Obstetrics and Gynaecology*, 1993; 100: 1082-1089.

14. Balen AH, Schachter M, Montgomery D, Reid R, Jacobs HS: Polycystic ovaries are a common finding in female-to-male transsexualism. *Clinical Endocrinology*, 1993; 38: 325-329.

15. MacDougall MJ, Tan SL, Balen AH, Jacobs HS: A controlled study comparing patients with and without polycystic ovaries undergoing in-vitro fertilisation. *Human Reproduction*, 1993; 8:233-237.

16. Balen AH: Hypersecretion of luteinising hormone and the polycystic ovary syndrome. *Human Reproduction,* 1993; 8: S2, 123-128.

17. Balen AH, Challis JD: Dietary advice for women wishing to conceive. *British Journal of Midwifery*, 1993; 5: 238-241.

18. Balen AH: The value of cardiotocography for intrapartum monitoring. *British Journal of Midwifery*, 1993; 1: 174-176.

19. Balen AH: Hypersecretion of luteinising hormone in the polycystic ovary syndrome and a novel hormone "gonadotrophin surge attenuating factor". *Journal of The Royal Society of Medicine*, 1994; 88: 339-441.

20. Balen AH: Hypersecretion of LH: a significant cause of infertility and miscarriage. *British Journal of Obstetrics and Gynaecology* (letter) 1994; 101: 738.

21. Balen AH, Rose M: The control of luteinising hormone secretion in the polycystic ovary syndrome. *Contemporary Reviews in Obstetrics and Gynaecology*, 1994; 6: 201-207.

22. Balen AH: Precocious signs of polycystic ovaries in young girls. *Ultrasound in Obstetrics and Gynaecology*, 1994; 4: 183-184.

23. Balen AH, Braat DDM, West C, Patel A, Jacobs HS: Cumulative conception and live birth rates after the treatment of anovulatory infertility. An analysis of the safety and efficacy of ovulation induction in 200 patients. *Human Reproduction*, 1994 9: 1563-1570.

24. Balen AH, Jacobs HS: A prospective study comparing unilateral and bilateral laparoscopic ovarian diathermy in women with the polycystic ovary syndrome. *Fertility & Sterility*, 1994; 62: 921-925.

25. Balen AH, Prentice MG: Spontaneous conception in a woman with Turner mosaicism, polycystic ovaries and hyperprolactinaemia secondary to a pituitary macroadenoma. *Journal of Obstetrics and Gynaecology*, 1994; 14: 117-118.

26. Balen AH, Manning PJ: A case of isolated TSH deficiency presenting as infertility. *Postgraduate Medical Journal*, 1994 70: 225-227.

27. Tan SL, Doyle P, Maconochie N, Jacobs HS, Edwards RG, Balen AH, Bekir J, Brinsden P, Campbell S: Pregnancy and livebirth rates after in-vitro fertilization (IVF) by life table analysis in women with, and without, previous IVF pregnancies - a study of 8000 cycles undertaken at one centre. *American Journal of Obstetrics and Gynecology*, 1994; 170: 34-40.

28. Tan SL, Maconochie N, Doyle P, Campbell S, Balen AH, Bekir J, Brinsden P, Edwards RG, Jacobs HS: Cumulative conception and livebirth rates after IVF, with and without, pituitary desensitization with the gonadotropin-releasing hormone agonist, buserelin. *American Journal of Obstetrics & Gynecology*, 1994; 171: 513-520.

29. MacDougall MJ, Tan SL, Balen AH, Hall V, Mason BA, Jacobs HS: Comparison of natural with clomiphene citrate stimulated cycles in in-vitro fertilisation: A prospective randomised trial. *Fertility & Sterility*, 1994; 61: 1052-57.

30. Balen AH, Challis J, West C, Valentine A, Payne S, Steele J: A survey of dietary awareness in women who are planning a pregnancy. *British Journal of Family Planning* 1994; 20: 96.

31. Balen AH, Floyd D: A case of polaroid photographs being used during an operation to discuss unforeseen findings with the next-of-kin. *British Journal of Hospital Medicine* 1994; 52: 479-480.

32. Balen AH, Er J, Rafferty B, Rose M: Characterisation of a rat anterior pituitary cell bioassay. *In Vitro Cellular and Developmental Biology*. 1995; 31: 316-322.

33. Balen AH, Conway GS, Kaltsas G, Techatraisak K, Manning PJ, West C, Jacobs HS: Polycystic ovary syndrome: The spectrum of the disorder in 1741 patients. *Human Reproduction* 1995; 10: 2107-2111.

34. Balen AH, Er J, Rafferty B, Rose M: *In* vitro bioactivity of gonadotrophin surge attenuating factor is not affected by an antibody to human inhibin. *Journal of Reproduction and Fertility*, 1995; 104: 285-289.

35. Balen AH: Effects of ovulation induction with gonadotrophins on the ovary and uterus and implications for assisted reproduction. *Human Reproduction*, 1995; 10: 2233-2237.

36. Balen AH, Dunger D: Pubertal maturation of the internal genitalia. *Ultrasound in Obstetrics & Gynaecology*, 1995; 6: 164-165.

37. Brinsden P, Balen AH, Wada I, Tan S.L., Jacobs HS: Diagnosis, prevention and management of ovarian hyperstimulation syndrome. *British Journal of Obstetrics and Gynaecology*, 1995; 102: 767-772.

38. Balen AH: Minimal compliance with the Department of Health recommendation for routine folate prophylaxis to prevent fetal neural tube defects (letter). *Br J Obstetrics and Gynaecology* 1995; 102: 171.

39. Balen AH: The polycystic ovary syndrome (review). *Maternal and Child Health*, 1995; 20: 58-61.

40. Balen AH: Ovulation disorders and the polycystic ovary syndrome (review). *Update - Infertility*, Reed Healthcare Communications, 1995; pp 22-28.

41. Balen AH, Jacobs HS: Conception rates after laparoscopic electrocautery of the ovarian surface (letter). *Fertility & Sterility* 1995; 63: 1358-1359.

42. Balen AH: Further thoughts on surgical therapy for for polycystic ovary syndrome (letter). *Fertiliy & Sterility* 1996; 65: 1256-7.

43. Harrington DJ, Balen AH: Polycystic ovary syndrome: aetiology and management. *British Journal of Hospital Medicine*, 1996; 56: 17-20.

44. Schachter M, Balen AH, Patel A, Jacobs HS: Hypogonadotrophic patients with ultrasonographically diagnosed polycystic ovaries have aberrant gonadotropin secretion when treated with pulsatile gonadotrophin releasing hormone - a new insight into the pathophysiology of polycystic ovary syndrome. *Gynecological Endocrinology*, 1996; 10: 327-335.

45. Harrington D, Smith K, Balen AH: A case of premature menopause in an ovulating 46,XY female patient. *Current Opinion in Obstetrics and Gynaecology* 1996; 8: 465-469.

46. Balen AH: Gonadotrophin surge attenuating factor: where are we now? *Clinical Endocrinology*, 1996; 44: 177-180.

47. Ayida G, Balen FG, Balen AH: The usefulness of ultrasound in fertility management. *Contemporary Reviews in Obstetrics and Gynaecology*, 1996; 8: 32-38.

48. Joels L, Davies M, Balen AH: Training in reproductive medicine. *Journal of The British Fertility Society*, 1997; 2: 10-13.

49. Balen AH: British Fertility Society: main roles of the society (Editorial). *Journal of The British Fertility Society*, 1997; 2: 2-4.

50. Balen AH: Anovulatory infertility and ovulation induction - Recommendations for good practice. *Journal of the BFS, Human Reproduction*, 12: supp, 2:2, 1997; 83-87.

51. Krapez J, Hayden C, Rutherford A, Balen AH: Survey of the diagnosis and management of antisperm antibodies. *Human Reproduction* 1998; 13: 3363-3367.

52. Nugent D, Salha O, Balen AH, Rutherford AJ: Ovarian neoplasia and subfertility treatments. *British Journal of Obstetrics and Gynaecology*, 1998; 105: 584-591.

53. Wynn P, Picton HM, Krapez JA, Rutherford A, Balen AH, Gosden R. Pretreatment with FSH promotes the numbers of human oocytes reaching metaphase ll by in-vitro maturation. *Human Reproduction* 1998; 13: 3132-3138.

54. Hickey K, Cairns A, Balen AH: Rupture of a rudimentary uterine horn at 19 weeks’ gestation. *Journal of Obstetrics and Gynaecology*, 1998; 18: 394.

55. Balen AH , Hayden CA: British Fertility Society Survey of all licensed clinics that perform surrogacy in the UK. *Human Fertility* 1998; 1: 6-9.

56. Joels L, Davies M, Balen AH: Structured training: where does reproductive medicine fit in? *British Journal of Obstetrics & Gynaecology*, 1998; 105: 141-142.

57. Hayden CJ, Balen AH, Rutherford AJ: Recombinant gonadotrophins. *British Journal Obstetrics & Gynaecology* 1999; 106: 188-196.

58. Hayden C, Rutherford A, Balen AH: 50IU starting dose in ovulation induction. *Fertility & Sterility* 1999; 71: 106-108.

59. Michelmore KF, Balen AH, Dunger DB, Vessey MP. Polycystic ovaries and associated clinical and biochemical features in young women. *Clin Endcrinol* 1999; 51: 779-786.

60. Stratford GA, Barth JH, Rutherford AJ, Balen AH: Plasma prolactin measurement is not indicated in women in the routine investigation of uncomplicated infertility. Human *Fertility* 1999; 2: 70-71.

61. Kerr J, Balen AH, Brown C. The results of a survey investigating the experiences of couples in the UK who have had infertility treatment. *Journal of Fertility Counselling*, 1999; 19-21.

62. Balen AH, Hayden C, Rutherford AJ: What are the value of the recombinant gonadotrophins? *Human Reproduction* 1999; 14: 1411-1417.

63. Wilson JD, Dunham RJC, Balen AH. HIV protease inhibitors, the lipodystrophy syndrome and polycystic ovary syndrome – is there a link? *Sex Transm Inf* 1999; 75: 268-269.

64. Kerr J, Brown C, ,Balen AH: NIAC survey of infertile couples in the U.K. *Human Reproduction* 1999; 14: 934-938.

65. Rajkowha M, Balen AH: The Polycystic Ovary Syndrome and the climacteric: metabolic consequences and management. *Journal of the British Menopause Society*, June 1999; 5: 73-75.

66. Nugent D, Balen AH: Pregnancy in the older woman. *Journal of the British Menopause Society* 1999; 5: 132-136.

67. Balen AH: Ovarian hyperstimulation syndrome (letter). *Human Reproduction* 1999; 14: 1138.

68. Balen AH. The pathogenesis of polycystic ovary syndrome: the enigma unravels. *Lancet* 1999; 354: 966-7.

69. Balen AH: Ovarian Aging. (Editorial) *Healthlines*, March 1999, page 10, Health Education Authority.

70. Balen AH; Genton P. Valproate for girls with epilepsy (letter). *Annals of Neurology*; 2000:47:550-2.

71. Rajkowha M, Glass MR, Rutherford AJ, , Balen AH, Sharma V, Cuckle HS: Trends in the incidence of ectopic pregnancy in England and Wales from 1966 to 1996. *British Journal Obstetrics & Gynaecology* 2000; 107: 369-374.

72. Rose MP, Gaines Das RE, Balen AH: Definition and Measurement of FSH. *Endocrine Reviews*, 2000; 21: 5-22.

73. Stratford GA, Barth JH, Rutherford AJ, Balen AH: The value of thyroid function tests in women in the routine investigation of uncomplicated infertility. *Human Fertility*; 2000; 3:203-206.

74. Barber D, Barlow D, Balen AH: Fertility nurses doing embryo transfers – what is the impact on training? *Human Fertility*; 2000; 3:181-185.

75. Rajkowha M, Glass MR, Rutherford AJ, Michelmore K, Balen AH: Polycystic Ovary Syndrome: a risk factor for cardiovascular disease? *British Journal Obstetrtics & Gynaecology* 2000; 107: 11-18.

76. Balen AH: Surgical management of PCOS : pros and cons (review). *The Obstetrician & Gynaecologist*, 2000; 2: 17-20.

77. Balen AH. Ovulation induction for polycystic ovary syndrome. *Human Fertility* 2000; 3: 106-111.

78. Salha O, Balen AH: New concepts in superovulation strategies for assisted conception treatments. *Current Opinion in Obstetrics & Gynaecology*, 2000; 12: 201-206.

79. Balen AH: Prescribing in Practice: polycystic ovary syndrome. *The Prescriber*, 2000; 11: 31-39.

80. Hayden C, Balen AH. New Approaches to therapy for PCOS. *Topical Endocrinology*, 2000; 14: 4-8.

81. Balen AH: Ovulation induction strategies and the management of polycystic ovary syndrome. *Fertility 2000*: Update Postgraduate Series, Excerpta Medica, 2000, 21-27.

82. Salha O, Picton H, Rutherford AJ, Balen AH: Human oocyte cryopreservation. *Hospital Medicine*; 2001; 62: 18-24.

83. Salha O, Picton H, Balen AH, Rutherford A. Cryopreservation of human ovarian tissue. *Hospital Medicine*, 2001; 62: 222-227.

84. Balen AH: Induction of ovulation. *Current Obstetrics & Gynaecology*. 2001; 11: 233-238.

85. Balen AH. Polycystic ovary syndrome and cancer. *Human Reproduction Update*, 2001; 7: 522-525.

86. Nugent D, Balen AH. The effects of female age on fecundity and pregnancy outcome (review). Human Fertility; 2001; 4: 43-48.

87.Minto C, Alderson J, Balen AH, Creighton S. Management of intersex (letter). *Lancet* 2001; 358: 2085-2086.

88. Balen AH. Thromboembolism in women with ovarian hyperstimulation syndrome. *Reproductive Vascular Medicine*, 2001; 1: 120-124.

89. Salha O, Lamb V.K., Balen AH: A postal survey of embryo transfer practice in the U.K.. *Human Reproduction*, 2001; 16: 686-690.

90. Michelmore KF, Balen AH, Dunger DB. Polycystic ovaries and eating disorders: are they related? *Human Reproduction*, 2001; 16: 765-769.

91. Genton P, Bauer J, Duncan S, Taylor AE, Balen AH, Eberle A, Pedersen B, X Salas‑Puig, Sauer MV. On the association between valproate and polycystic ovary syndrome , *Epilepsia* 2001; 42: 295-304.

92. Michelmore KF, Ong K, Mason S, Bennett S, Perry L, Vessey MP, Balen AH, Dunger DB. Clinical features in women with polycystic ovaries: relationships to insulin sensitivity, insulin gene *VNTR*  and birth weight. *Clin Endocrinol* 2001; 55: 439-446.

93. Barth JH, Balen AH, Jennings A: Appropriate design of biochemistry request cards can promote the use of protocols and reduce unnecessary investigations. *Annals Clin Biochem* 2001; 38: 714-716.

94. Balen AH. Is there a risk of prion disease after the administration of urinary-derived gonadotrophins? *Human Reproduction*, 2002; 17: 1676-1680.

95. Wijeyaratne CN, Balen AH, Belchetz PE. Polycystic ovary syndrome and its relevance to women from South Asia. *Ceylon Medical Journal*, 2002; 47: 22-26.

96. Balen AH & Michelmore K. What is polycystic ovary syndrome? Are national views important? *Human Reproduction*, 2002; 17: 2219-2227.

97. Nugent D, Watson AJ, Killick SR, Balen AH, Rutherford AJ. A randomized controlled trial of tubal flushing with lipiodol for unexplained infertility. *Fertility & Sterility* 2002; 77: 173-176.

98. Houghton FD, Hawkhead JA, Humpherson PG, Hogg JE, Balen AH, Rutherford AJ, Leese HJ. Non-invasive amino acid turnover predicts human embryo developmental capacity. *Human Reproduction*, 2002; 17: 999-1005.

99. Wijeyaratne CN, Balen AH, Barth J, Belchetz PE. Clinical manifestations and insulin resistance (IR) in polycystic ovary syndrome (PCOS) among South Asians and Caucasians: is there a difference? *Clinical Endocrinology*, 2002; 57: 343-350.

100. Balen AH, Fleming C, Robinson A. Health needs of adolescents in secondary gynaecological care: results of a questionnaire survey and a review of current issues. *Human Fertility*, 2002; 5: 127-132.

101. Reichl H, Balen AH, Jansen CAM. Prion transmission in blood and urine: what are the implications for recombinant and urinary-derived gonadotrophins? *Human Reproduction*, 2002; 17: 2501-2508.

102. Marchington DR, Scott Brown MSG, Lamb VK, van Golde RJT, Kremer JAM, Tuerlings JHAM, Mariman ECM, Balen AH, Poulton J. No evidence for paternal mtDNA transmission to offspring or extra-embryonic tissues after ICSI. *Molecular Human Reproduction*, 2002; 11: 1046-1049.

103. Shaw LMA, Balen AH, Lenton E, Brown C, Greenwood B. National Health Service Provision for the management of infertility: the case for funding and reorganisation of fertility services in the U.K. *Human Fertility* 2002; 5: 167-174.

104 & 105. Balen AH. Adolescent Gynaecology - Part 1 & 2, *British Journal of Sexual Medicine* 2002; 26,2: 27-30. & 26,3: 22-26.

106. Balen AH “Bridging the Gaps: Health Care for Adolescents”, White Paper published by RCPaeds & CH, June 2003, 62pp, senior author J Tripp.

107. Balen AH, Laven JSE, Tan SL, Dewailly D. Ultrasound Assessment of the Polycystic Ovary: International Consensus Definitions. *Human Reproduction Update* 2003; 9: 505-514.

108. Hickey M, Balen AH. Menstrual disorders in adolescence: Investigation and management. *Human Reproduction Update* 2003; 9: 493-504.

109. Balen AH. Ovulation induction – optimizing results and minimizing risks. Human Fertility, 2003; 6: S42-51.

110. Balen AH. Why Polycystic Ovary Syndrome Matters. *Pulse*, 2003; 36: 50-56.

111. Balen AH. Management of hyperandrogenism. *Pulse*, 2003; 36: 58-60.

112. Hickey M, Balen AH. Menstrual problems during teenage years. *Prescriber*, 2003; 14: 20-29.

113. Balen AH Ovulation induction. *Current Obstetrics and Gynaecology*, 2004 14: 261-268.

114. Balen AH. Evidence Based Management of Anovulation. Overview and abstracts from the joint ESHRE/RCOG Symposium. *Human Fertility*, 2004; 7: 183-208.

115. Ward HJT, Balen AH, Will RG (letter). Creutzfeldt-Jakob disease and urinary gonadotrophins. *Human Reproduction*, 2004; 19: 1236-1237.

116. The Rotterdam ESHRE/ASRM-sponsored PCOS consensus workshop group. Revised 2003 consensus on diagnostic criteria and long-term health risks related to polycystic ovary syndrome (PCOS). *Human Reproduction* 2004; 19: 41-47.

Authors: Fauser B, Tarlatzis B, Chang J, Azziz R, Legro R, Dewailly D, Franks S, Balen AH, Bouchard P, Dahlgren E, Devoto, Diamanti E, Dunaif A, Filicori M, Homburg R, Ibanez L, Laven J, Magoffin D, Nestler J, Norman R, Pasquali R, Pugeat M, Strauss J, Tan SL, Taylor A, Wild R, Wild S.

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117. The Rotterdam ESHRE/ASRM-sponsored PCOS consensus workshop group. Revised 2003 consensus on diagnostic criteria and long-term health risks related to polycystic ovary syndrome (PCOS). *Fertility & Sterility*, 2004; **81:** 19-25.

Authors: Fauser B, Tarlatzis B, Chang J, Azziz R, Legro R, Dewailly D, Franks S, Balen AH, Bouchard P, Dahlgren E, Devoto, Diamanti E, Dunaif A, Filicori M, Homburg R, Ibanez L, Laven J, Magoffin D, Nestler J, Norman R, Pasquali R, Pugeat M, Strauss J, Tan SL, Taylor A, Wild R, Wild S.

118. Alderson J, Madill A, Balen AH. Fear of devaluation: Understanding the experience of intersexed women with androgen insensitivity syndrome. *British Journal of Health Psychology*, 2004;  **9:** 81-100.

119. Jones GL, Benes K, Clark TL, Denham R, Holder MG, Haynes TJ, Mulgrew NC, Shepherd KE, Wilkinson VH, Singh M, Balen AH, Lashen H, Ledger WL. The polycystic ovary syndrome health-related quality of life questionnaire (PCOSQ): a validation. *Human Reproduction*, 2004;  **19:** 371-377.

120. Wijeyaratne CN, Nirantharakunar K, Balen AH, Barth JA, Sheriff R, Belchetz PE. Plasma homocysteine in polycystic ovary syndrome: does it correlate with insulin resistance and ethnicity? *Clinical Endocrinology*, 2004; **60:** 560-567.

121. Balen AH The current understanding of polycystic ovary syndrome (review). *The Obstetrician and Gynaecologist*, 2004; 6: 66-74.

122. Palep-Singh M, Mook K, Barth JH, Balen AH. An observational study of Yasmin in the management of polycystic ovary syndrome. *Journal of Family Planning and Reproductive Healthcare*, 2004; **30:** 163-165.

123. Yasmin E, Dresner M, Balen AH. Sedation and anaesthesia for transvaginal oocyte collection: an evaluation of practice in the UK. *Human Reproduction* 2004; **19:** 2942-2945.

124. Agrawal R, Sharma S, Bekir J, Conway G, Balen AH, Bailey J, Prelevic G. Prevalence of polycystic ovaries and polycystic ovary syndrome in lesbian women compared with heterosexual women, *Fertility & Sterility* 2004; **82:** 1352-7.

### 125. Vyjayanthi S., Kingsland C.R., Dunham R., Balen A.H. National survey of current practice in assessing tubal patency in the UK. Human Fertility, 2004; 7: 267-270.

126. Balen AH, Mulders A, Fauser B, Schoot B, Renier M, Devroey P, Struijs M, Mannaerts B. Pharmacodynamics of a single low dose of long-acting recombinant FSH (FSH-CTP, corifollitropin alfa) in women with WHO Group II anovulatory infertility. JCEM, 2004; **89:** 6297-6304.

127. Petry CJ, Ong KK, Michelmore KF, Artigas S, Wingate DL, Balen AH, de Zegher F, Ibanez L, Dunger DB. Association of aromatase (CYP19) gene variation with features of hyperandrogenism in two populations of young women. Human Reproduction, 2005; **20:** 1837-1843.

128. Balen AH, Lumholtz I.B. Consensus statement on the biosafety of urinary derived gonadotropins with respect to Creutzfeldt-Jakob Disease (CJD): Implications for urinary gonadotropins. *Human Reproduction*, 2005; **20:** 2992-2999.

129. Bardis N, D Maruthini, Balen AH: Modes of conception and multiple pregnancy: a national survey of babies born during one week in 2003 in the United Kingdom. *Fertility & Sterility* 2005; **84:** 1727-1732.

130. Hamzeh R, Balen AH. Up-to-date definition of the polycystic ovary and polycystic ovary syndrome. *Ultrasound* 2006; 14: 142-144.

131. Hayden C, Balen AH. Polycystic ovary syndrome and metabolic syndrome. *Expert Review in Obstetrics and Gynaecology*, 2006; **1:** 183-194.

132. Tang T, Glanville J, Hayden CJ, White D, Barth JH, Balen AH. Combined life-style modification and metformin in obese patients with polycystic ovary syndrome (PCOS). A randomised, placebo-controlled, double-blind multi-centre study. *Human Reproduction*, 2006; **21:** 80-89.

133. Petry CJ, Ong KK, Michelmore KF, Artigas S, Wingate DL, Balen AH, de Zegher F, Ibáñez L & Dunger DB. Associations Between Common Variation In The Aromatase Gene Promoter Region And Testosterone Concentrations In Two Young Female Populations. *J Steroid Biochem Mol Biol*. 2006; **98:** 199-206.

134. Balen AH, Dresner M, Scott EM, Drife JO. Should obese women with polycystic ovary syndrome (PCOS) receive treatment for infertility? (Editorial)*British Medical Journal*, 2006: **332:** 434-435.

135. Tang T, Glanville J, Barth JH, Balen AH. Metformin in patients with polycystic ovary syndrome (PCOS) undergoing IVF. A randomised, placebo-controlled, double-blind study. *Human Reproduction* 2006; **21:** 1416-1425.

136. Leader A (on behalf of *The Monofollicular Ovulation Induction Study Group*, Lindberg S, Hugues J-N, Alvarez S, Savale M, Strowitzki T, Kleinstein J, Rjosk HK, Kjotroslash SB, Kolvik R, Mangas MC, Eden B, Bergh T, Schoot BC, P van Zonneveld, Balen AH, Buckler HM). Improved monofollicular ovulation in anovulatory or oligo-ovulatory women following a low-dose step-up protocol with weekly increments of 25 IU recombinant FSH (follitropin beta); *Fertility & Sterility*, 2006;  **85:**  1766-1773.

137. Platteau P, Balen AH, Nyboe Andersen A, Devroey P, Helmgaard L, Arce J-C. Similar ovulation rates, but different follicular development with highly purified hMG compared with recombinant FSH in women with WHO Group II anovulatory infertility: a randomized controlled study. *Human Reproduction* 2006; **21:** 1798-1804.

138. Wijeyaratne CN, Waduge R, Arandara D, Arasalingam A, Sivasuriam A, Dodampahala SH, Balen AH. Metabolic and polycystic ovary syndromes in indigenous South Asian women with previous gestational diabetes mellitus. *British Journal of Obstetrics & Gynaecology* 2006; **113:** 1182-1187.

139. Balen AH, Platteau P, Nyboe Andersen A, Devroey P, Sørensen P, Helmgaard L, Arce J-C. The influence of body weight on response to ovulation induction with gonadotropins in 335 women with World Health Organization Group II anovulatory infertility. *British Journal of Obstetrics & Gynaecology* 2006; **113:** 1195-1202.

140. Hugues JN, Cedrin-Durnerin I, Howles CM on behalf of the Recombinant FSH OI Study Group (Amram M, Angelini A, Balen A, Barbereau D, Birkhauser M, Boujenah A, De Leo V, De Placido G, Dessole S, Favrin S, Ferrazi E, Hedon B, Hocke C, Lanzone A, Marchand F, Moreau L, Nappi C, Porcu E, Seibert M, Thiers D, Venturini P). The use of a deceremental dose regimen in patients treated with a chronic low-dose step-up protocol for WHO II anovulation: a prospective randomized multicentre study. *Human Reproduction* 2006; **21:**  2817-2822.

141. Hayden C, Balen AH. The role of the central nervous system in the pathogenesis of PCOS. *Minerva Ginecologica* 2006; 58: 41-54.

142. Vyjayanthi S, Tang T, Fattah A, Deivanayagam M, Bardis N, Balen AH. Elective cryopreservation of embryos at the pronucleate stage in women at risk of ovarian hyperstimulation syndrome may affect the overall pregnancy rate. Fertility & Sterility 2006: **86:** 1773-1775.

143. Balen AH. Update on PCOS in the older woman. *Menopause Update*, South Africa, 2006 9: 2-3.

144. Yasmin E, Balen AH. Management of polycystic ovary syndrome. *Women’s Health, Future Medicine*, 2007 **3:** 355-367.

145. Balen AH. PCOS. *MIMS Womens’ Health*, 2007; **2:** 22-25.

146. Hayden CJ, Balen AH. Primary amenorrhoea: investigation and treatment. *Obstetrics, Gynaecology and Reproductive Medicine*, 2007; **17:** 199-204.

147. Wijeyaratne CN, Balen AH. Metabolic and polycystic ovary syndromes in indigenous South Asian Women with previous gestational diabetes mellitus. Letter, *British Journal O &G*, 2007; **114:** 376 (letter).

148. Wilson JD, Lee R A, Balen AH , Rutherford AJ. Bacterial vaginal flora in relation to changing oestrogen levels. International Journal of STD & AIDS 2007; **18:** 308–311.

149. Balen AH, Is metformin the treatment of choice for polycystic ovary syndrome? Nature Clinical Practice Endocrinology and Metabolism 2007; **3:** 441-442.

150. Palep-Singh M, Picton HM, Yates ZR, Barth J, Balen AH. Polycystic ovary syndrome and the single nucleotide polymorphisms of Methylenetetrahydrofolate reductase: a pitlot observational study. *Human Fertility* 2007; **10:** 33-41.

151. Balen AH, Platteau P, Nyboe Andersen A, Devroey P, Helmgaard L, Arce J-C for the Bravelle Ovulation Induction (BOI) Study Group. Highly purified FSH is as efficacious as recombinant FSH for ovulation induction in women with WHO Group II anovulatory infertility: a randomized controlled non-inferiority trial. *Human Reproduction,* 2007; **22:** 1816-1823.

152. Vyjayanthi S, Glanville J, Yasmin E,, Balen AH. Modern trends in ovulation induction *Human Fertiltiy* 2007; **10:** 117-121.

153. Eckert JJ, Houghton FD, Hawkhead JA, Balen AH, Leese HJ, Picton HM, Cameron IT, Fleming TP. Human embryos developing in vitro are susceptible 1 to impaired epithelial junction biogenesis correlating with abnormal metabolic activity. *Human Reproduction*, 2007; **22:** 2214-2224.

154. Barnard L, Ferriday D, Guenther N, Strauss B, Balen AH, Dye L. Quality of Life and Psychological Wellbeing in Polycystic Ovary Syndrome. *Human Reproduction* 2007; **22:** 2279-2286.

155. Palep-Singh M, Vrotsou K, Balen AH. Frozen embryo replacement cycle: An analysis of factors influencing the outcome. *J Obstetrics & Gynecology of India* 2007; **57:** 240-244.

156. Palep-Singh M, Picton HM, Vrotsou K, Balen AH. South Asian women with polycystic ovary syndrome exhibit greater sensitivity to gonadotropin stimulation with reduced fertilization and ongoing pregnancy rates than their Caucasian counterparts. *European J O&G* 2007; **134**:202-207.

157. Barth J, Yasmin E, Balen AH. The diagnosis of polycystic ovary syndrome: the criteria are insufficiently robust for clinical research. *Clinical Endocrinology*, 2007; **67:** 811-815.

158. Balen AH, Rutherford AJ. Modern approaches to the management of infertility. Part One: Epidemiology and the spectrum of infertility, including the prevention and preservation of infertility. *British Medical Journal*, 2007; **335:** 608-611.

159. Balen AH, Rutherford AJ. Modern approaches to the management of infertility: Part 2: Managing anovulatory infertility and polycystic ovary syndrome. *British Medical Journal*, 2007; **335:** 663-666.

160. Balen AH, Anderson R. Impact of obesity on female reproductive health: British Fertility Society, Police and Practice Guidelines. *Human Fertility,* 2007; **10:**  195-206.

161. Barnard L, Balen AH, Ferriday D, Tiplady B, Dye L. Cognitive Performance in Women with Hyperandrogenism and Hyperestrogenism: The Case of Polycystic Ovary Syndrome / Cognitive Functioning in Polycystic Ovary Syndrome, Psychoneuroendocrinology (PNEC), 2007; **32:** 906-914.

162. The Thessaloniki ESHRE/ASRM-Sponsored PCOS Consensus Workshop Group, Thessaloniki, Greece. B.C. Tarlatzis (Gr), B.C.J.M. Fauser (Nl), J. Chang (USA), S. Franks (UK), R. Legro (USA), R.W. Rebar (USA), R. Azziz (USA), **A.H. Balen (UK),** Ph. Bouchard (Fr), B.R. Carr (USA), R.F. Casper (Can), J. Collins (Can), P.G. Crosigniani (It), A. DeCherney (USA), P. Devroey (B), K. Diedrich (G), R. Eijkemans (Nl), C. Farquhar (NZ), R. Fleming (UK), D.G. Goulis (Gr), G. Griesinger (Ger), P.C. Ho (HK), K. Hoeger (USA), R. Homburg (Is), J.N. Hugues (Fr), E.M. Kolibianakis (Gr), R. Lobo (USA), I.E. Messinis (Gr), R.J. Norman (Aus), R. Pasquali (It), A. van Steirteghem (B). Consensus on infertility treatment related to polycystic ovary syndrome. *Human Reproduction* 2008; **23:** 462-477.

# 163. *Simultaneous publication in Fertility and Sterility* 2008; **89:** 505-522.

164. Jones GL, Hall JM, Balen AH, Ledger W. Health-related quality of life measurement in women with polycystic ovary syndrome: a systematic review. *Human Reproduction Update* 2008; **14:** 15-25.

165. Palep-Singh M, Picton HM, Barth JH, Balen AH. Ethnic variations in the distribution of obesity and biochemical metabolic abnormalities in fertility clinic attendees. *Journal Reproductive Medicine* 2008 Feb;53(2):117-23.

166. Nyboe Andersen A, Balen AH, Platteau P, Devroey P, Helmgaard L, Arce J-C, for the Bravelle Ovulation Induction (BOI) Study Group. Predicting the FSH threshold dose in women with WHO Group II anovulatory infertility failing to ovulate or conceive on clomiphene citrate. *Human Reproduction* 2008; **23:** 1424-1430.

167. The corifollitropin alpha dose-finding study group: Abyholm T, Andersen AN, Balen AH, Braat DDM, Devroey P, D’Hooghe TH, Felderbaum R, Fauser BJCM, Fridstrom M, Hillensjo T, Keck C, Kurunmaki H, Lindenberg S, Ombelet W, Tapanainen J, Varila E, Wramsby H, Koper NP, de Haan AFJ, Struijs MJ, Mannaerts B. A randomized dose-response trial of a single injection of corifollitropin alfa to sustain multifollicular growth during controlled ovarian stimulation. *Human Reproduction* 2008; **23:** 2484-2492.

168. Jones GL, Balen AH, Ledger W. Health-related quality of life in PCOS and related infertility: How can we assess this? *Human Fertility* 2008; **11:** 73-185.

169. Balen AH. *Indications for the use of metformin in polycystic ovary syndrome.* RCOG SAC paper, 2008.

170. Maruthini D, Balen AH. Modern management of amenorrhoea. Trends in Urology, Gynaecology and Sexual Health. 2008; 24-28.

171. Scholtz S, Le Roux C, Balen AH. *The role of bariatric surgery in the management of female fertility*.RCOG SAC paper, 2009.

172. Tang T, Lord JM, Norman RJ, Yasmin E, Balen AH. Insulin-sensitising drugs (metformin,rosiglitazone, pioglitazone, D-chiro-inositol) for women with polycystic ovary syndrome, oligo amenorrhoeamand subfertility. Cochrane Database of Systematic Reviews 2009 , Issue 3 . Art. No.: CD003053. DOI:10.1002/14651858.CD003053.pub2 .

173. Tang T, Balen AH. A woman with polycystic ovary syndrome treated for infertility by in vitro fertilization. *Nature Endocrinology* 2009; **5:** 462-465.

174. Acharya S, Yasmin E, Balen AH. The use of a combination of Pentoxifylline and Tocopherol in women with a thin endometrium undergoing assisted conception therapies – a report of twenty cases. *Human Fertility* 2009; **12:** 198-203.

175. Devroey P, Boostanfar R, Koper NP, Mannaerts BMJL *et al.*, on behalf of the ENGAGE Investigators (....Balen AH....). A double-blind, non-inferiority RCT comparing corifollitropin alfa and recombinant FSH during the first seven days of ovarian stimulation using a GnRH antagonist protocol. *Human Reproduction* 2009;  **24:** 3063-3072.

176. Balen AH, Homburg R, Franks S. Defining polycystic ovary syndrome. Editorial. *British Medical Journal* 2009; **338:** 426.

177. Barth JH, Field H P, Yasmin E, Balen AH. Defining hyperandrogenism in polycystic ovary syndrome: measurement of testosterone and androstenedione by liquid chromatography-tandem mass spectrometry and analysis by receiver operator characteristic (ROC) plots. *European Journal of Endocrinology* 2010; **162:** 611-615.

178. Nyboe-Anderson A, Balen AH, Platteau P, Pettersen G, Arce J-C,. Prestimulation parameters predicting live birth in anovulatory WHO group II patients undergoing ovulation induction with exogenous gonadotrophins. *Human Reproduction* 2010;  **25:** 1988-1995.

179. Harris SE, Maruthini D, Tang T, Balen AH and Picton HM. Metabolism and karyotype analysis of oocytes from patients with polycystic ovary syndrome.*Human Reproduction* 2010;  **25:** 2305-2315.

180. Brewer C, Balen AH. The adverse effects of obesity on conception and implantation. Reproduction, 2010; **140:** 347-364.

181. Brewer C, Acharya S, Thake F, Tang T, Balen AH. **Effect of metformin taken in the ‘fresh’ *in vitro* fertilization/intracytoplasmic sperm injection cycle upon subsequent frozen embryo replacement in women with polycystic ovary syndrome.** Human Fertility September 2010; **13:** 134-142.

182. Jones GL, Palep-Singh M, Ledger WL, Balen AH, Jenkinson C, Campbell MJ, Lashen HL. Do South Asian women with PCOS have poorer health-related quality of life than white women with PCOS? A comparative cross-sectional study. *Health and Quality of Life Outcomes*  2010; **8:**149-153.

183. Scholtz S, Le Roux C, Balen AH. The role of bariatric surgery in the management of female fertility. *Human Fertility* 2010;**13:** 67-71.

186. Balen AH, Harris SE, Chambers EL, Picton HM. Conservation of fertility and oocyte genetics in a young patient with mosaic Turner’s Syndrome. BJOG, 2010; **117:**  234-237.

185. Balen AH, Creighton S, Martin-Hirsch. Editorial: *Special Issue BJOG, Adolescent Reproductive Health. BJOG; 2010;* ***117:*** *DOI:10.1111/j.1471-0528.2009.02445.x.*

186. Randeva HS, Balen AH, Atkin S, Franks S, Hillhouse EW. Bad Journalism: polycystic ovary syndrome. *BMJ, on line letters 31.10.2010.*

187. Yasmin E, Glanville J, Barth J, Balen AH. Effect of dose escalation of  
metformin on clinical features, insulin sensitivity and androgen profile in  
Polycystic Ovary Syndrome. *European Journal of Obstetrics & Gynecology and Reproductive Biology*, 2011; **156:** 67-71.

188. Arce J-C, Balen AH, Nyboe-Anderson A, Platteau P. Mid-luteal progesterone levels are associated with live birth rates during ovulation induction. Reproductive BioMedicine Online 2011;  **22:** 449-456.

189. Pasquali R, Stener-Victorin E, Yildiz B, Duleba AJ, Hoeger K, Mason H, Homburg R, Hickey T, Franks S, Tapanainen J, Balen AH, Abbott DH,  Legro RS. PCOS Forum: research in polycystic ovary syndrome today and tomorrow. PEACOCKS Summary. *Clinical Endocrinology*  2011; **74:** 424-433.

190. Ahmed SF, Achermann JC, Arlt W, Balen AH, Conway GC, Edwards Z, Elford S,  
Hughes IA, Izatt L, Krone N, Miles H, O’Toole S, Perry L,  Sanders C, Simmonds M, Wallace M, Watt A, Willis D. UK guidance on the initial evaluation of an infant or an adolescent with a suspected disorder of sex development. *Clinical Endocrinology* 2011; **75:** 12-26.

191. Wijeyaratne CN, Seneviratne RDA, Dahanayake S, Kumarapeli V, Palipane E, Kuruppu N, Yapa C, Balen AH. Phenotype and metabolic profile of South Asian women with polycystic ovary syndrome (PCOS): results of a large database from a specialist Endocrine Clinic. *Human Reproduction* 2011;  **26:** 202-213.

192. Yasmin E, Balen AH. Metabolic aspects of polycystic ovary syndrome. Expert reviews. [Expert Review of Obstetrics and Gynecology](http://www.ingentaconnect.com/content/apl/eog;jsessionid=1wqtbedlxqpce.alice), 2011; 6: 331-341.

193. Sivayoganathan D, Maruthini D, Glanville JM, Balen AH. Full investigation of patients with polycystic ovary syndrome (PCOS) presenting to four different clinical specialties reveals significant differences and undiagnosed morbidity: *Human Fertility*  2011; **14:** 261-265.

194. Jones GL, Hall JM, Lashen HL, Balen AH, Ledger WL,. Health-related quality of life among adolescents with polycystic ovary syndrome. [*J Obstet Gynecol Neonatal Nurs.*](http://www.ncbi.nlm.nih.gov/pubmed/22273414##) 2011; **40:**577-88

195. Nardo LG, Fleming R, Howles CM, Bosch E, Hamamah S, Ubaldi FM, Hugues J-N, Balen AH, Nelson SM. *Reproductive Biomedicine Online;* 2011 **23:**141-8.

196. Bach F, Glanville JM, Balen AH. An observational study of women with Müllerian agenesis and their need for vaginal dilator therapy. *Fertility & Sterility* 2011; **96:** 483-486.

197. Fauser BCJM, Alper MM, Ledger W, Schoolcraft WB, Zandvliet A, Mannaerts BM; Engage Investigators (Balen AH). [Pharmacokinetics and follicular dynamics of corifollitropin alfa versus recombinant FSH during ovarian stimulation for IVF.](http://www.ncbi.nlm.nih.gov/pubmed/21575846) *Reproductive Biomedicine Online;* 2011 **22:**s23-31.

198 &199. Fauser BCJM, Tarlatzis BC, Rerbar RW, Legro RS, Balen AH, Lobo R, Carmina E, Chang J, Yildiz B, Laven JSE, Boivin J, Petraglia F, Wijeyaratne C, Norman RJ, Dunaif A, Franks S, Wild RA, Dumesic D, Barnhart K. Consensus on women’s health aspects of polycystic ovary syndrome (PCOS): the Amsterdam ESHRE/ASRM-Sponsored 3rd PCOS Consensus Workshop Group.

Simultaneous Publication *Human Reproduction* 2012; **27:** 14-24. and*Fertility & Sterility* 2012; **97:** 28-38.

200. [Homburg](http://humrep.oxfordjournals.org/search?author1=R.+Homburg&sortspec=date&submit=Submit) R,  [Hendriks](http://humrep.oxfordjournals.org/search?author1=M.L.+Hendriks&sortspec=date&submit=Submit) ML, [König](http://humrep.oxfordjournals.org/search?author1=T.E.+K%C3%B6nig&sortspec=date&submit=Submit) TE, Anderson RA, Balen AH, Brincat M, Child T, Davies M, D’Hooghe T, Martinez A, Rajkhowa M, Rueda-Saenz R, Hompes P, Lambalk CB. Clomifene citrate or low-dose FSH for the first-line treatment of infertile women with anovulation associated with polycystic ovary syndrome: a prospective randomized multinational study. *Human Reproduction* 2012;  **27:** 468-473.

201. Crosignani PG, Baird DT, Balen AH, Escobar-Morreale HF, Evers JLH, Fauser BCJM, Franks S, Glasier A, Homburg R, La Vecchia C. Health and Fertility in WHO Group 2 anovulatory women. ESHRE Capri Workshop Group. *Human Reproduction Update* 2012; 586-599

202. Morley L, Tang T, Yasmin E, Hamzeh R, Rutherford AJ, Balen AH. Timing of human chorionic gonadotropin (hCG) hormone administration in IVF protocols using GnRH antagonists: A randomised controlled trial. *Human Fertility* 2012;  **15:** 134-139.

203. Tang T, Lord JM, Norman RJ, Yasmin E, Balen AH. Insulin-sensitising drugs (metformin, rosiglitazone, pioglitazone, Dchiro-inositol) for women with polycystic ovary syndrome, oligo amenorrhoea and subfertility. *Cochrane Database of Systematic Reviews* 2012,Issue5.Art. No.: CD003053. DOI: 10.1002/14651858.CD003053.pub5.

204. Gorthi S, Balen AH, Tang T. Current issues in ovulation induction. *The Obstetrician and Gynaecologist* 2012; **14:** 188-196.

205. Homburg R, Hendriks M.L., Konig T.E., Anderson R.A., Balen A.H., Brincat M., Child T., Davies M., D’Hooghe T., Martinez A., Rajkhowa M., Rueda-Saenz R., Hompes P. and Lambalk C.B.. Intention to treat and per protocol analysis. *Human Reproduction 2012; doi:10.1093/humrep/des271.*

206. Balen AH. Ovarian hyperstimulation syndrome, Editorial, *Human Fertility 2013; 16: 143.*

207. Yasmin E, Barth J, Balen AH. The association of BMI and biochemical hyperandrogenaemia in women with and without PCOS. *European Journal of Obstet Gynecol,* 2013; 166:173-177.

208. Tang T & Balen AH. Use of metformin for women with polycystic ovary syndrome; *Human Reproduction Update, 2013;* ***19:*** *1.*

209. Hemmings KE, Maruthini D, Vyjayanthi S, Hogg JE, Balen AH, Campbell BK, Leese HJ, Picton HM. Amino acid turnover by human oocytes is influenced by gamete developmental competence, patient aetiology and gonadotrophin treatment. *Human Reproduction, 2013;* ***28:***

210. Ning N, Balen AH, Brezina PR, Leong M, Shoham Z, Wallach EE, Zhao Y. How to recognise PCOS - Results of a web-based survey. *RBM On Line 2013;* ***26:*** *500-505.*

211. Balen AH. Ovulation induction in the management of anovulatory polycystic ovary syndrome. *Molecular and Cellular Endocrinology*, 2013; **373:** 77-82.

212. Wijeyeratne C, Udayangani D, Balen AH. Ethnic specific PCOS. *Expert Review of Endocrinology and Metabolism 2013; 8: 71-79.*

213. Yasmin E, Davies M, Conway G, Balen AH. Ovulation induction in WHO type 1 anovulation: BFS guidelines for practice on behalf of the BFS Police and Practice Committee. *Human Fertility 2013; 16: 228-234.*

214. Brezina PR, Mensah V, Balen A, Leong M, Weissman A, Zhao Y, Shoham Z. Fertility management in the PCOS population: results of a web-based survey at IVF-worldwide.com. *J Assisted Reproduction and Genetics 2013; 30: 1169-1174.*

215. Nicholas S, Balen AH. PCOS: diagnosis, prevalence and ethnic differences. Gynaecology Forum 2013; **18:** 5-8.

216. Dewailly D, Yding Andersen C, Balen A H; Broekmans, F J; Dilaver, N; Griesinger, G; Fanchin, R; Kelsey, T; La Marca, A; Lambalk, C; Mason, H; Nelson, S; Visser, J A. Wallace, H B.; Anderson, R. The physiology and clinical utility of anti-Mullerian hormone in women. *Human Reproduction Update, 2014;* ***20:*** *370-385.*

217. Sivalingam VN, Myers J, Nicholas S, Balen AH, Crosbie EJ. Metformin in reproductive health, pregnancy and gynaecological cancer: established and emerging indications. *Human Reproduction Update 2014; 20: 853-868.*

218. Maruthini D, Harris SE, Barth JH, Balen AH, Campbell K, Picton HM.  
The effect of metformin treatment in vivo on acute and long-term energy metabolism and progesterone production in vitro by granulosa cells from women with polycystic ovary syndrome. *Human Reproduction 2014; 29: 2302-2316.*

219. Nardo LG, El-Toukhy T, Stewart J, Balen AH, Potdar N. Adjuvants in IVF: evidence for good clinical practice. On behalf of the British Fertility Society P&P Committee. *Human Fertiity*, *2014; DOI:10.3109/14647273.2015.985454.*

220. McGowan R, Tydeman G, Shapiro D, Craig T, Morrison N, Balen AH, Ahmed SF, Deeny M, Tolmie J, Tobias ES. Copy Number Variations are Important in the Complex Genetic Architecture of Müllerian Disorders. *Fertility & Sterility*, 2015; **103:** 1021-1030.

221. Scholtz S, Le Roux C, Balen AH. *The role of bariatric surgery in the management of female fertility*.RCOG Scientific Impact Paper number 17, October 2015.

223. Ahmed SF, Achermann JC, Arlt W, Balen AH, Conway GC, Edwards Z, Elford S,  
Hughes IA, Izatt L, Krone N, Miles H, O’Toole S, Perry L,  Sanders C, Simmonds M, Watt A, Willis D. UK guidance on the initial evaluation of an infant or an adolescent with a suspected disorder of sex development (Revised 2015). *Clinical Endocrinology* 2016 May;84(5):771-88 doi: 10.1111/cen.12857.

224. Balen AH. Polycystic Ovary Syndrome, an Update for GPs. *InnovAiT* 2016; 9: 144-150.

225. Morley LC, Tang T, Yasmin E, Lord JM, Norman RJ, Balen AH. Insulin-sensitising drugs (metformin, rosiglitazone, pioglitazone, D-chiro-inositol) for women with polycystic ovary syndrome, oligo amenorrhoea and subfertility. *Cochrane Database of* *Systematic Reviews* 2016, Issue 9. Art. No.: CD003053. DOI: 10.1002/14651858.CD003053.pub6.

226. Huntriss J, Lu J, Hemmings KE, Bayne RAL, Anderson RA, Rutherford AJ, Balen AH, Elder K, Picton HM. Isolation and Expression of the Human Gametocyte-Specific Factor 1 Gene (*GTSF1*) in Fetal Ovary, Oocytes and Pre-implantation Embryos. *Journal of Assisted Reproduction and Genetics,* 2017 Jan; 34(1): 23–31.Published online 2016 Sep 19. doi: [10.1007/s10815-016-0795-0](https://dx.doi.org/10.1007%2Fs10815-016-0795-0)

227. Baskind NE, Balen AH. Hypothalamic-pituitary, ovarian and adrenal contributions to polycystic ovary syndrome. Best Pract Res Clin Obstet Gynaecol. 2016 37: 80-97. doi: 10.1016/j.bpobgyn.2016.03.005.

228. Baskind NE, Balen AH. Ask an expert: Polycystic ovary syndrome. [http://learning.bmj.com/learning/module-intro/ask-an-expert-polycystic-ovary.html ?moduleId=10056451](http://learning.bmj.com/learning/module-intro/ask-an-expert-polycystic-ovary.html%20?moduleId=10056451)

229. Balen AH, Morley LC, Misso M, Franks S, Legro RS, Wijeyaratne CN, Stener-Victorin E, Norman RJ, Fauser BJCM, Teede H. WHO recommendations for The Management of Anovulatory Infertility in Women with Polycystic Ovary Syndrome (PCOS), *Human Reproduction Update* 2016; 22: 687-708 *doi: 10.1093/humupd/dmw 025*

230. Jacob (Nicholas) SL, Brewer C, Tang T, Picton HM, Barth JH, Balen AH. A short course of metformin does not reduce ovarian hyperstimulation syndrome in a gonadotrophin releasing hormone antagonist cycle for women with polycystic ovary syndrome undergoing IVF: A randomised placebo controlled trial. *Human Reproduction* 2016; 12: 2756-2764.

231. Balen AH. Polycystic Ovary Syndrome. *The Obstetrician & Gynaecologist,* 2017 19(2): 119-129.

232. Morley LC, Tang TMH, Balen AH on behalf of the Royal College of Obstetricians and Gynaecologists. Metformin Therapy for the Management of Infertility in Women with Polycystic Ovary Syndrome. Scientific Impact Paper No. 13. BJOG 2017; DOI: 10.1111/1471-0528.14764.

233. Morley LC, Tang T, Yasmin E, Norman RJ, Balen AH. Insulin-sensitising drugs (metformin, rosiglitazone, pioglitazone, D-chiro-inositol) for women with polycystic ovary syndrome, oligo amenorrhoea and subfertility. *Cochrane Database of* *Systematic Reviews* 2017, No.: CD003053. DOI: 10.1002/14651858.CD003053.pub6.

234. Jacob (Nicholas) SL, Calder N, Field HP, Balen AH, Barth JH. Anti-Müllerian Hormone reflects the severity of Polycystic Ovary Syndrome. *Clinical Endocrinology* 2017; 86: 395-400. doi: 10.1111/cen.13269.

235. Kulkarni MA, Glanville JM, Phillott S, Balen AH. A review of Paediatric and Adolescent gynaecology services in a tertiary outpatient clinic. *Human Fertility*, 2017; 20:168-178. 10.1080/14647273.2017.1283067.

236. Balen AH, Regan L, Avery S, Braude P, Cooke I, Dugdale G, Seenan S, Khalaf, Rutherford AJ, Brinsden P, Child T, Leese H, Murdoch A, Pacey A, Hamilton H, Adamson D, Fauser BCJM and 45 co-signatories Lack of evidence for interventions offered in UK fertility centres. BMJ 2016; 355 doi: https://doi.org/10.1136/bmj.i6295 (Published 28 November 2016) Cite this as: BMJ 2016;355:i6295

237. Mascarenhas M & Balen AH. The high responder: a review of pathophysiology and outcomes during IVF treatment. *Human Fertility*  2017: [http://dx.doi.org/10.1080/ 14647273.2017.1293851](http://dx.doi.org/10.1080/%2014647273.2017.1293851).

238. Harper J, Boivin J, O’Neill HC, Brian K, Dhingra J, Dugdale G, Edwards G, Lucy Emmerson, Grace B, Hadley A, Hamzic L, Heathcote J, Hepburn J, Hoggart L, Kisby F, Mann S, Norcross S, Regan L, Seenan S, Stephenson J, Walker H, Balen A. The need to improve fertility awareness. Reproductive Biomedicine Online, 2017; 8:18-20 DOI: <http://dx.doi.org/10.1016/j.rbms.2017.03.002>.

239. Mascarenhas M, Rawnsley V, Balen AH. Iron overload directly affecting the ovaries in a patient with Diamond Blackfan anaemia: a case report. *Human Fertility*  2017 <http://dx.doi.org/10.1080/14647273.2017.1342875>.

240. Huntriss J, Balen AH, Sinclair KD, Brison DR, Picton HM, on behalf of the Royal College of Obstetricians and Gynaecologists. Epigenetics and Reproductive Medicine. Scientific Impact Paper No. 57. BJOG 2018;https://doi.org/10.1111/1471-0528.15240.000:1–12.

241. Mascarenhas M, Fox S, Thompson K, Balen A. Cumulative live birth rates and perinatal outcomes with the use of time lapse imaging incubators for embryo culture: a retrospective cohort study of 1882 ART cycles. BJOG 2019;126:280-286 DOI: 10.1111/1471-0528.15161.

242. Jacob S, Balen A. [Oocyte freezing: reproductive panacea or false hope of family?](https://www.ncbi.nlm.nih.gov/pubmed/29620987) Br J Hosp Med. 2018 Apr 2;79(4):200-204. doi: 10.12968/hmed.2018.79.4.200.

243-245. Teede HJ, Misso ML, Costello MF, Dokras A, Laven J, Misso ML, Moran L, Piltonen T, Norman RJon behalf of the International PCOS Network co-author list including Balen AH. Recommendations from the international evidence-based guideline for the assessment and management of polycystic ovary syndrome. *Fertility and Sterility*, 2018; 110:364–379; *Clinical Endocrinology*, 2018; 89: 251-268; *Human Reproduction*, 2018; 33:1602-1618.

246. Harper J, Hepburn J, Vautier G, Callander E, Glasgow T, Balen A, Boivin J. Feasibility and acceptability of theatrical and visual art to deliver fertility education to young adults. *Human Fertility*, 2019 pp.1-7.  [https://doi.org/10.1080/14647273.2019. 1570354](https://doi.org/10.1080/14647273.2019.%201570354)

247. Costello MF, Balen AH, Devoto L, Garad R, Hart R, Johnson L, Jordan C, Legro R, Misso ML, Norman RJ, Mocanu E, Qiao J, Rodgers R, Rombauts L, Tassone EC, Thangaratinam S, Vanky E, Teede HJ on behalf of the of the International PCOS Network. Recommendations from the international evidence-based guideline for the assessment and management of polycystic ovary syndrome: assessment and treatment of infertility. *Human Reproduction Open Access,* 2019; pp. 1–24, doi:10.1093/hropen/hoy021.

248. Rosemann A, Balen A, Nerlich B, Hauskeller C, Sleeboom-Faulkner M, Hartley S, Zhang X, Lee N. Heritable human gene editing in global perspective: national and international policy challenges. Hastings Center Report, 2019; 49:30-42. doi: 10.1002/hast.1006.

249. Costello MF, Balen AH, Devoto L, Garad R, Hart R, Johnson L, Jordan C, Legro R, Misso ML, Norman RJ, Mocanu E, Qiao J, Rodgers R, Rombauts L, Tassone EC, Thangaratinam S, Vanky E, Teede HJ on behalf of the of the International PCOS Network. A brief update on the treatment of infertility in polycystic ovary syndrome. *Autralia and new Zealand Journal of Obstetrics and Gynaecology, 2019 DOI: 10.1111/ajo.13051.*

250. Jacob S, Balen AH. How will the new global PCOS guideline change our clinical practice? *Clinical Medicine Insights: Reproductive Health, 2019;* doi: 10.1177/1179558119849605.

251. Mascarenhas M, Kulkarni M, Balen AH. Can the ethnic differences in IVF cycle outcome be explained by the impact of BMI? *Human Fertility* 2020; 23:275-281.  doi: 10.1080/14647273.2018.1563915. Epub 2019 Jan 14.

252. Richardson A, Mascarenhas M, Balen AH. Is a woman’s chronological age or ‘ovarian age’ more important in determining perinatal outcome after assisted reproductive treatment? *Human Fertility 2019; DOI 10.1080/14647273.2019.1597987;* in print 2021; 24:144-150.

253. Mascarenhas M, Balen AH. Title: Could ethnicity have a different impact on fresh and frozen embryo transfer outcomes - a retrospective study*. RBM On Line* 2019; 39:764-769. <https://doi.org/10.1016/j.rbmo.2019.07.032>.

254. Picton HM, Balen AH. Prenatal androgen exposure and the polycystic ovary syndrome. *Nature Medicine 2019*;25(12):1818-1820. doi: 10.1038/s41591-019-0678-x.

255. Richardson A, BaskindNE, Balen AH. Effects of deprivation on IVF outcome: the other postcode lottery. *BJOG* 2019;127:458-465. DOI: 10.1111/1471-0528.16012.

256. Sharpe A, Morley LC, Tang T, Norman RJ, Balen AH. Metformin for ovulation induction (excluding gonadotrophins) in women with polycystic ovary syndrome. *Cochrane Database of Systematic Reviews* 2019, Issue 12. Art. No.: CD013505. DOI:

10.1002/14651858.CD013505.

257. Bulmer C, Balen AH. Illicit drug use and fertility treatment: should we be developing a Standard Operating Procedure? *Human Fertility 2020;* 17:1-9. DOI 0.1080/14647273.2020.1727572.

258. Mascarenhas M & Balen AH. Treatment update for infertility and anovulation in PCOS. *Current Opinion in Endocrine & Metabolic Research**2020; 12: 53-58.*

259. Al Wattar BH, Teede H, Garad R, Franks S, Balen AH, Bahid P, Piltonen T, Romaldi D, Laven J, Thondan M, Bueno A, Moss N, Andrews C, Hawkes R; Mol B, Khan K, Thangaratinam S. Harmonising research outcomes for polycystic ovary syndrome (HARP): An international multi-stakeholder core outcome set. *Human Reproduction, 2020; 35: 404-412.* DOI:10.1093/humrep/dez272.

260. Schleedoorn MJ, Mulder BH, Braat DDM, Beerendonk CCM, Peek R, Nelen WLDM, Van Leeuwen E, Van der Velden AAEM, and Fleischer K, on behalf of the Turner Fertility expert panel, including Balen AH. International consensus: Ovarian tissue cryopreservation in young Turner syndrome patients. Outcomes of an ethical Delphi study including 55 experts from 16 different countries, *Human Reproduction 2020; 35: 1061-1072.* [DOI:10.1093/humrep/deaa007](https://doi.org/10.1093/humrep/deaa007).

# 261. Balen AH. Polycystic Ovary Syndrome (PCOS) is associated with increased risk of

# late but not early pregnancy loss after IVF. Mini Commentary. *BJOG,* 2020-1651.R1.

# <https://doi.org/10.1111/1471-0528.16601>; 2021; 128: 1170.

262. Sharpe A, Mascarenhas M, Balen AH. Ethnic variation in the live birth rate and perinatal outcomes following frozen embryo transfer: results from analysis of the HFEA database from 2000 to 2016. *Human Fertility 2021* DOI: 10.1080/14647273.2021.

1913291

263. Al Wattar BH, Bueno A, Martin MG, Ibáñez NC, Harasani K, Garad R, Franks S, Balen AH, Bhide P, Piltonen T, Romualdi D, Laven J, Moss N, Andrews C, Hawkes R, Mol BW, Teede H, Thangaratinam S, Khan KS. Harmonising research outcomes for polycystic ovary syndrome (HARP), a marathon not a sprint: Current challenges and future research need. *Human Reproduction*, 2021 18;36(3):523-528. doi: 10.1093/humrep/deaa331. PMID: 33332572.

264. Armstrong S, Lensen S, Vaughan E, Wainwright E, Peate M, Balen AH, Farquhar C, Pacey A.The VALUE study: a protocol for a qualitative semi-structured interview study of IVF add-ons use by patients, clinicians and embryologists in the UK and Australia. BMJ Open 2021;**0**:e047307. Doi:10.1136/bmjopen-2020-047307.

265. Karavadra B, Stockl A, Balen AH, Morris EP. COVID-19 and fertility services in the United Kingdom; a biphasic qualitative study. Reproduction and Fertility 2021; 2: 27-34; <https://doi.org/10.1530/RAF-20-0055>.

266. Harper J, Hammarberg K, Simopoulou M, Koert E, Pedro J, Massin N, Balen AH. The International Fertility Education Initiative: Research and action to improve fertility awareness. Human Reprod Open 2021; doi:10.1093/hropen/hoab031; orcid.org/0000-0001-6364-2367.

267. Mascarenhas M, Owen S, French E, Thompson Karen, Balen AH**.** Impact of time-lapse imaging incubators with single-step culture medium on cumulative live birth rate in IVF cycles: a retrospective cohort study. *Authorea.* May 08, 2021.

<https://doi.org/10.22541/au.162048004.43720005/v1>  
  
268.  Skorupskaite K, Joy A, Balen A, Agarwal K, Cauldwell M, [English K](https://www.sciencedirect.com/science/article/pii/S0301211522004420?dgcid=author" \l "!). Assisted Reproduction in Patients with Cardiac Disease: A Retrospective Review. European Journal of Obstetrics & Gynecology and Reproductive Biology. [2022; 276](https://www.sciencedirect.com/journal/european-journal-of-obstetrics-and-gynecology-and-reproductive-biology/vol/276/suppl/C): 199-203. <https://doi.org/10.1016/j.ejogrb.2022.07.020>

269-271. Munro MG\*, Balen AH\*, Cho S, Critchley HOD, Díaz I, Ferriani R, Henry L, Mocanu E, van der Spuy ZM; FIGO Committee on Menstrual Disorders and Related Health Impacts, and FIGO Committee on Reproductive Medicine, Endocrinology, and Infertility. The FIGO ovulatory disorders classification system. \*Joint first authors. Simultaneous publication: Hum Reprod. 2022 Sep 30;37(10):2446-2464. doi: 10.1093/humrep/deac180. PMID: 35984284; PMCID: PMC9527465; Fertil Steril. 2022 Oct;118(4):768-786. doi: 10.1016/j.fertnstert.2022.07.009. Epub 2022 Aug 19. PMID: 35995633; Int J Gynaecol Obstet. 2022 Oct;159(1):1-20. doi: 10.1002/ijgo.14331. Epub 2022 Aug 19. PMID: 35983674.

272. Haas CL, Schnecke V, Varbo A, Kalayci T, Balen AH. Association between body mass index, weight loss and the chance of pregnancy in women with polycystic ovary syndrome and overweight or obesity: a retrospective cohort study in the UK. *Human Reproduction* 2023; 38: 471-481. doi: 10.1093/humrep/deac267. Epub ahead of print. PMID: 36637246.

273. Balen AH, Munro MG, O’Neill HC, Lunenfeld B, Fauser BCJM. The New FIGO Ovulatory Disorder Classification:  PRO and CON. Fertility & Sterility, 2023; DOI: <https://doi.org/10.1016/j.fertnstert.2023.01.043>.

274. Lensen S, Armstrong S, Vaughan E, Caughey L, Peate M, Farquhar C, Pacey A, Balen AH, Wainwright E. “It all depends on why it’s red”: qualitative interviews exploring patient and professional views of a traffic light system for IVF add-ons. Reproduction and Fertility; 2023, RAF 22.

275. Balen AH, Tamblyn J, Skorupskaite K, Munro M. A Comprehensive Review of

The new FIGO Classification of Ovulatory Disorders ; Human Reproduction Update,

2023….

276. Armstrong S, Vaughan E, Lensen S, Caughey L, Farquhar C, Pacey A, Balen AH, Peate M, Wainwright E.Contrasting the patient and professional perspective on using IVF add-ons in the UK and Australia. *BMJ Open* 2023;0:e069146. doi:10.1136/

bmjopen-2022-069146

277-280. Teede HJ, Tay CH, Laven J, Dokras A, Moran LJ, Piltonen TT, Costello MF, Boivin J, et al on behalf of the International PCOS Network,…. Balen AH et al.,… Recommendations from the 2023 International Evidence-based Guideline for the Assessment and Management of Polycystic Ovary Syndrome.

Simultaneous Publication:

*Human Reproduction* 2023 38; 1655-1679; doi: 10.1093/humrep/dead156;

European Journal of Endocrinology, 2023; 189: G43–G64;

*J Clin Endocrinol Metab.* 2023;108:2447-2469. doi: 10.1210/clinem/dgad463;

*Fertil Steril.* 2023;120:767-793. doi: 10.1016/j.fertnstert.2023.07.025.

281. Cools M, Cheng E, Alderson J, Oelschlager AMA, Balen AH, Chan M, Geffner ME, Gravholt CH, Guran T, Hall J, Hoebeke P, Lee P, Magritte E, Matos D, McElreavey K, Meyer-Bahlburg H, Rink R, Sandberg D, Springer A, , Szymanski K, Vilain E, Williams J, Wolffenbuttel K, Subramaniam R. Multi-stakeholder opinion statement on the care of individuals born with differences of sex development: common ground and opportunities for improvement. *Hormone Research in Paediatrics* (in press).

**Total: 281 published / in press**

# Submitted:

Richardson A, Tamblyn J, Bamford T, Balen AH. The use of socioeconomic deprivation as an explanation for variation in IVF success rates between clinics: a multi-centre, retrospective cohort study

**III. Chapters in Books**

1. Balen AH, Yovich JL: Miscarriage following assisted conception. In Stabile I, Grudzinskas JG & Chard T (editors): Spontaneous Abortion, Diagnosis and Treatment. Springer-Verlag, London, 1992, pages 133-148.

2. MacDougall J, Balen AH, Jacobs HS: Polycystic ovaries and their relevance to assisted conception. In Brinsden P & Rainsbury P (editors): The Bourn Hall Textbook of Assisted Conception, pages 93-110. Parthenon Press, Carnforth, Lancashire, 1992.

3. Balen AH, Shoham Z, Jacobs HS: Amenorrhoea – Causes and consequences. In Asch RH & Studd JJW (editors): Annual Progress in Reproductive Medicine. Parthenon Press, Carnforth, Lancashire, 1993, pages 205-234.

4. Tan SL, Balen AH, Jacobs HS: Hypersecretion of LH and the polycystic ovary syndrome. Neuroendocrinology of female reproductive function. Editors: Montemagno M, Nappi C, Petraglia F, Genazzani AR. Parthenon, Carnforth, Lancs, 1993, 223-228.

5. Balen AH, Smith JH: Cardiotocography. In Studd JJW & C Jardine Brown (editors): Year Book of the R.C.O.G. 1994, Parthenon Press, pp 283-300.

6. Balen AH, Tan SL: The physiology and endocrinology of the ovary. In Kurjak A (editor): Ultrasound and the Ovary, Parthenon Press, Carnforth, Lancs, 1994, p 17-28.

7. Balen AH, Balen FG, Tan SL: The ovary and assisted reproduction. In Kurjak A (editor): Ultrasound and the Ovary, Parthenon Press, Carnforth, Lancs, 1994, p 83-98

8. Balen AH: The control of LH secretion in the PCOS. Advances in Human Reproduction, F.A. Moeloek, B. Affandi & A.O. Trounson (eds), Parthenon Press, Carnforth, Lancashire, 1994;255-263.

9. Harrington DJ, Balen AH: PCOS. Practical Guide to Reproductive Medicine, Rainsbury PA & Viniker DA (eds), Parthenon Press, 1997; pp 63-72.

10. Balen AH: Amenorrhoea and anovulation. Practical Guide to Reproductive Medicine, Rainsbury PA & Viniker DA (eds), Parthenon Press, 1997; pp 49-62.

11. Balen AH: PCOS – Medical or surgical treatment? Evidence-based Fertility Treatment, RCOG Study Group. Templeton A, Cooke I & O’Brien PMS (eds), RCOG Press, 1998, pp 157-177.

12. Balen AH: PCOS – Mode of treatment, in Female Infertility Therapy – Current Practice. Shoham Z, Howles CM, Jacobs HS (eds), Martin Dunitz, 1998, pp 45-68.

13. Balen AH: Endocrine methods of induction of ovulation. Balliere’s Clinics in Obstetrics and Gynaecology, PCOS, HS Jacobs (ed), 1998; 12: 521-540.

14. Balen AH: Expression of The polycystic ovary syndrome. In, The polycystic ovary syndrome, editor R Homburg, Cuadernos de Medicina Reproductiva, Editorial Medica Panamericana, 1998, pp 33-45.

15. Balen AH: Hypersecretion of LH in the polycystic ovary syndrome. In, The polycystic ovary syndrome, editor R Homburg, Cuadernos de Medicina Reproductiva, Editorial Medica Panamericana, 1998, pp 75-100.

16. Balen AH: Infertility – Prospects of Success. Yearbook of The National Association of Fundholding Practices, 1998; 217-219.

17. Balen AH, MacDougal J, Jacobs HS: Polycystic ovaries and assisted conception. Bourn Hall Textbook of IVF, P Brinsden, Parthenon Press, Lancs, 1999 pp 109-130.

18. Balen AH: Amenorrhoea, hirsutism and virilisation. Dewhurst’s Textbook of Obstetrics and Gynaecology (6th Ed),D.K. Edmonds, Blackwell Scientific, 1999, 42-60.

19. Nugent D, Smith J, Balen AH: The ovary and assisted reproduction. In Ultrasound and the Ovary, Kurjak A & Kupesic S; Parthenon Press, Carnforth,1999, pp23-44.

20. Balen AH: Ovulation induction. In The Polycystic Ovary Syndrome, editor G Kovacs, Cambridge University Press, 2000, pp 117-143.

21. Balen AH, Jacobs HS: Polycystic ovaries and assisted conception. The Polycystic Ovary Syndrome, ed. G Kovacs 2000, Cambridge University Press, pp 159-181.

22. Balen AH. Laparoscopic treatment of polycystic ovary syndrome. Recent Advances in Obstetrics & Gynaecology. Editor: John Bonnar. Churchill Livingstone, Edinburgh, 2000; 111-122.

23. Balen AH. Amenorrhoea, oligomenorrhoea and polycystic ovary syndrome. Disorders of the Menstrual Cycle, Proceedings of The 37th RCOG Scientific Working Group, Editors S O’Brien, I Cameron & A MacLean. RCOG Press, 2000; 346-372.

24. Balen AH. GnRH agonists and superovulation for assisted conception. Infertility and Reproductive Medicine Clinics of North America, ed P Devroey, WB Saunders Co, Philadelphia, 2001; 12: 89-104.

25. Balen AH: Clinical Expression. In, The Polycystic Ovary Syndrome, editor R Homburg, Martin Dunitz, 2001, pp 19-27.

26. Balen AH: Hypersecretion of LH: effects and mechanisms. In, The Polycystic Ovary Syndrome, editor R Homburg, Martin Dunitz, 2001, pp 61-77.

27. Jacobs HS, Balen AH: The polycystic ovary and IVF. Texbook of Assisted Reproductive Techniques, editors: DK Gardner, A Weissman, C Howles, Z Shoham. Martin Dunitz, Andover, U.K., 2001, pp 637-643.

28. Balen AH: The principles of gonadotrophin therapy. In: A Practical Guide to Ovulation Induction, SM Sathanandan & HS Jacobs (editors). 2002, Imperial College Press, pp 87-104.

29. Balen AH. Disorders of Puberty. Gynaecology (3rd Edition). Shaw, Soutter & Stanton (editors). Churchill Livingstone, Harcourt Health Sciences, 2002, pp 215-228.

30. Balen AH. Polycystic Ovary Syndrome. Gynaecology (3rd Edition). Shaw, Soutter & Stanton (editors) Churchill Livingstone, Harcourt Health Sciences, 2002, pp 259-270.

#### 31. Balen AH, Rajkowha M. Polycystic Ovary Syndrome: A Systemic Disorder, In: Bailliere’s Best Practice & Research: Clinical Obstetrics & Gynaecology, The Management of Subfertility, Editor, JG Grudzinskas, 2003, vol 17/2, pp 263-274.

#### 32. Balen AH & Dunger D. Polycystic Ovary Syndrome in Adolescents. A Multi-Disciplinary Approach to the Management of Paediatric and Adolescent Gynaecology. A. Balen, S Creighton, M Davies, J MacDougall, R Stanhope (editors). Cambridge University Press, 2004, pp 334-341.

#### 33. Balen AH. Primary and Secondary Amenorrhoea. A Multi-Disciplinary Approach to the Management of Paediatric and Adolescent Gynaecology. A. Balen, S Creighton, M Davies, J MacDougall, R Stanhope (editors). Cambridge University Press, 2004, pp 342-353.

#### 34. Balen AH. Strategies for Superovulation for IVF. In: Good Clinical Practice in Assisted Reproducttion, Editors Paul Serhal and Caroline Overton. Cambridge University Press, 2004 pp 112-128.

#### 35. Balen AH. Oligomenorrhoea and Amenorrhoea. In: Gynaecology, First Edition, Editors: Sally Hope & Margaret Rees; Elsevier, Edinburgh, 2004; pp16-35.

36. Balen AH, Mesquita-Guimarães J, Hayden CJ, Tang T. Oral hypoglycaemics and PCOS. The Year Book of Obstetrics and Gynaecology. Volume 11, RCOG Press, 2004; 22-36.

37. Tang T, Balen AH: The polycystic ovary and IVF. Texbook of Assisted Reproductive Techniques, 2nd Edition, editors: DK Gardner, A Weissman, C Howles, Z Shoham. Taylor & Francis, London, 2004, pp 771-780.

38. Balen AH: Pathophysiology – trying to understand polycystic ovary syndrome and its endocrinology. Polycystic Ovary Syndrome, editors: IS Fraser & GT Kovacs, Bailliere’s Best Practice in Research and Clinical Obstetrics and Gynaecology, 2004; **18:** 685-706.

39. Balen AH, Wijeyeratne C: The genetics of polycystic ovary syndrome. Updates in Infertility Treatment, Editor M. Filicori, Medimond, Italy, 2004, pp395-418.

40. Balen AH: Polycystic ovaries and their relevance to assisted conception. A Textbook of *in vitro* fertilization and assisted conception, 3rd Edition, editor Peter Brinsden, Taylor & Francis, London, 2005 pp 189-215.

41. Balen AH: The irregular cycle: PCOS.The Abnormal Menstrual Cycle, editors: M Rees, S Hope and V Ravnikar, Parthenon Publishing, Lancaster UK, 2005, 95-110.

42. Salha O, Picton H, Balen AH, Rutherford AJ. Cryopreservation of human ovarian tissue.*Vignettes for the MRCOG, Vol 4* R Farquharson,Quay Books,London,2005;23-32.

43. Balen AH, Glass MR: What’s new in PCOS? Recent Advances in Obstetrics and Gynaecology. Editor:J Bonnar. RSM Press, London 2005, pp 147-158.

44. Balen AH: Biochemical features of PCOS. In: Androgen Excess Disorders in Women, edited by R Azziz, J Nestler and D Dewailly, Humana Press, New Jersey, 2006; 169-182.

45. Balen AH: Surgical management of PCOS. In: Androgen Excess Disorders in Women, edited by R Azziz, J Nestler and D Dewailly, Humana Press, New Jersey, 2006; 415-420.

46. Balen AH: Surgical management of PCOS. In: Polycystic Ovary Syndrome, Best Practice and Research in Clinical Endocrinology and Metabolism, edited by R Azziz, R Legro and Giudice L. 2006 Vol. 20, pp. 271–280.

47. Glaser A, Balen AH: Health conditions and treatments in childhood and adolescence where fertility is affected. In Fertility Issues Relating to Children and Young People, editors Rachel Balen and Marilyn Crawshaw. Jessica Kingsley Publishers, 2006 pp 67-84.

48. Balen AH: The polycystic ovary, in In-vitro maturation of human oocytes – Basic science to clinical applications. Editors: SL Tan, RC Chian, W Buckett. Taylor & Francis, Boca Raton, USA. 2007, pp 175-186.

49. Sedler M, Balen AH: The management of ovarian hyperstimulation syndrome, in In-vitro maturation of human oocytes – Basic science to clinical applications. Editors: SL Tan, RC Chian, W Buckett. Taylor & Francis, Boca Raton, USA. 2007, pp 203-220.

50. Balen AH: IVF and the patient with polycystic ovaries or polycystic ovary syndrome and. In, Polycystic Ovary Syndrome, 2nd Edition, editors Gabor Kovacs and Rob Norman, Cambridge University Press, 2007, pp 177-203.

51. Balen AH: Polycystic ovary syndrome and secondary amenorrhoea. Dewhurst’s Textbook of Obstetrics and Gynaecology (7th Edition), editor D.K. Edmonds, Blackwell Scientific Publications, 2007, pp 377-398.

52. Balen AH: Strategies for ovulation induction in the management of anovulatory polycystic ovary syndrome. In: Endocrine Updates, The Polycystic Ovary Syndrome, Springer, Norwell, MA, edited by R Azziz, 2007, pp 99-115.

53. Balen AH: Insulin resistance, metformin and PCOS. In:Reproductieve genee-skunde, gynaecologie en obstetrie. Anno 2007, Editor E Slager, DCHG 2007, 52-55.

54. Balen AH: Sexual differentiation: intersex disorders. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited by AH Balen, RCOG Press, 2007; pp 1-16.

55. Balen AH: Amenorrhoea. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited by AH Balen, RCOG Press, 2007; pp 77-89.

56. Balen AH: Polycystic ovary syndrome. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited AH Balen, RCOG Press,2007;pp89-102.

57. Balen AH, Rajkhowa M: Health consequences of polycystic ovary syndrome. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited by AH Balen, RCOG Press, 2007; pp 103-114.

58. Balen AH: Anovulatory infertility and ovulation induction. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited by AH Balen, RCOG Press, 2007; pp 115-136.

59. Balen AH: Hyperprolactinaemia. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited by AH Balen, RCOG Press, 2007; pp 143-150.

60. Balen AH: Premature ovarian failure. In *Reproductive Endocrinology for the MRCOG and Beyond*, Second Edition, edited A Balen, RCOG Press,2007;pp177-188.

61. Balen AH: Polycystic ovary syndrome, obesity and reproductive function. Obesity and Reproductive Health. Ediotrs: P Baker, A Balen, L Poston and N Sattar. Proceedings of 53rd RCOG Study Group, RCOG Press, London 2007, pp 69-80.

62. Balen AH: PCO versus PCOS: A necessary distinction. In: From the Ovary to the Pancreas: Current Concepts and Controversies in the Polycystic Ovary Syndrome. Editors: A Dunaif, RJ Chang, S Franks, RS Legro, Human Press Contemporary Endocrinology Series, Humana Press, Totowa USA, 2008, pp 37-50.

63. Tang T, Balen AH: The polycystic ovary and IVF. Texbook of Assisted Reproductive Techniques, 3nd Edition, editors: DK Gardner, A Weissman, C Howles, Z Shoham. Informa Healthcare, London, 2008, pp 721-736.

64. Balen AH: Overview and definitions of polycystic ovary syndrome and the polycystic ovary*. Current Management of Polycystic Ovary Syndrome.* Edited by AH Balen, S Franks and R Homburg. 59thRCOG Study Group, RCOG Press, London 2010; pp1-12.

65. Wijeyeratne CN, Kumarapeli V, Seneviratne RdeA, Antonypillai CN, Seneviratne RdeA SR, Chaminda GJ, Yapa SC, Balen AH: Ethnic variations in the expression of polycystic ovary syndrome*. Current Management of Polycystic Ovary Syndrome.* Edited by AH Balen, S Franks and R Homburg. Proceedings of 59th RCOG Study Group, RCOG Press, London 2010; pp25-46.

66. Barth JH, Field HP, Yasmin E, Balen AH: Definition of hyperandrogenism*. Current Management of Polycystic Ovary Syndrome.* Edited by AH Balen, S Franks and R Homburg. Proceedings of 59th RCOG Study Group, RCOG Press, London 2010; pp117-123.

67. Balen AH: Surgical management of anovulatory infertility in PCOS*. Current Management of Polycystic Ovary Syndrome.* Edited by AH Balen, S Franks and R Homburg. 59th RCOG Study Group, RCOG Press, London 2010; pp165-172.

68. Balen AH: Disorders of Puberty. In: *Gynaecology, Fourth Edition*. Editors RW Shaw, D Luesley, A Monga, Churchill Livingstone, Edinburgh, 2010, pp 182-196.

69. Balen AH: Polycystic ovary syndrome . In: *Gynaecology, Fourth Edition*. Editors RW Shaw, D Luesley, A Monga, Churchill Livingstone, Edinburgh, 2010, pp 251-264.

70. Balen AH: Female infertility and assisted reproduction. Oxford Textbook of Endocrinology and Diabetes. EditorJ Wass, Oxford University Press,2011,pp1249-1263.

71. Brewer C, Balen AH. Metformin for women with PCOS undergoing IVF. In *Adjuncts for IVF*, edited by G Kovacs, Cambridge University Press, 2011 pp 43-50.

72. Balen AH: Secondary amenorrhoea and polycystic ovary syndrome. In *Dewhurst’s Textbook of Obstetrics and Gynaecology for Postgraduates, Eighth edition.* Editor, DK Edmonds, Blackwells, London 2012, pp 513-533.

73. Balen AH: The patient with PCOS. *Assisted Reproduction Techniques: Challenges and Management Options.* Editors A Coomarasamy & K Sharif, Wiley Blackwell, London 2012, pp 61-64.

74. Nicholas S, Brewer C, Tang T, Balen AH: PCOS and assisted reproduction. Texbook of Assisted Reproductive Techniques, 4th Edition, editors: DK Gardner, A Weissman, C Howles, Z Shoham. Informa Healthcare, London, 2012, Vol 2 pp 298-307.

75. Balen AH: Congenital anomalies of the genital tract. Shaw’s Textbook of Operative Gynaecology, Editiors Marcus Setchell, John Shepherd and Christopher Hudson. Elsevier, New Dehli, India, 2013, pp 103-130.

76. Amoako AA & Balen AH. Female Infertility: Diagnosis and Management. In:Endocrinology and Diabetes: Case Studies, Questions, and Commentaries Editors Dr. Ajjan and Dr. S. Orme. Springer, London, 2015 pp 123-131.

77. Balen AH: Polycystic ovary syndrome. Obstetrics & Gynaecology : An Evidence-based Text for MRCOG, Third Edition. Editors A Coomarasamy, D Luesley, M Kilby, J Drife, L Cardozo, D Robinson & S Leeson; CRC Press, pp 652-660 (2016).

78. Nicholas S, Tang T, Balen AH: PCOS and assisted reproduction. Texbook of Assisted Reproductive Techniques, 5th Edition, editors: DK Gardner, A Weissman, C Howles, Z Shoham. CRC Press, London, 2018, pp 762-772.

79. Balen AH: Secondary amenorrhoea and polycystic ovary syndrome. In *Dewhurst’s Textbook of Obstetrics and Gynaecology for Postgraduates, Ninth edition.* Editors, DK Edmonds, C Lees & T Bourne. Wiley Blackwell, London 2018, pp 631-652 .

80. Balen AH, Breech L, Creighton SM, Liao L-M. An introduction to Peadiatric and Adolescent Gynecology Practice. Editors Creighton S, Balen AH, Breech L, Liao L-M. Textbook Paediatric and Adolescent Gynaecology. Cambridge University Press, 2018 pp 1-7.

81. Balen AH & Conway GS. Endocrine causes of primary amenorrhoea. Editors Creighton S, Balen AH, Breech L, Liao L-M. Textbook Paediatric and Adolescent Gynaecology. Cambridge University Press, 2018 pp 90-98.

82. Balen AH. Investigation of anovulatory infertility. subfertility, reproductive endocrinology and assisted reproduction, Editor J Stewart, Cambridge University Press, 2019 pp 106-114.

83. Balen AH. Ovulation induction for anovulatory infertility. Investigation of anovulatory infertility. subfertility, reproductive endocrinology and assisted reproduction, Editor J Stewart, Cambridge University Press, 2019 pp 115-123.

84. Balen AH. The patient with polycystic ovaries. Assisted Reproduction Techniques: Challenges & Management Options, 2nd edition. Editors K. Sharif & A. Coomarasamy. John Wiley & Sons Ltd, 2021, pages 96-102. ISBN:9781119622109.

85. Jacob S & Balen AH. Ain vitro fertilisation and assisted reproductive technologies in polycystic ovary syndrome. In Polycystic ovary syndrome. Editors Kovacs GT, Fauser BCJM & Legro RS. Cambridge University Press 2022, pages 110-121.

86. Balen AH, Jacob S. Infertility. Oxford Textbook of Endocrinology and Diabetes. Third Edition. Editors Wass, J, Arlt W & Semple RK. Oxford University Press 2022, pages 1359-1375.

87. Mascarenhas M & Balen AH. Assisted conception and multiple pregnancy. In The Managament of Multiple Pregnancy - Strategies to reduce rates. Editors Bricker L, Robinson J, Thilaganathan B, Cambridge University Press, UK 2022, pages 11-18.

88. Mascarenhas M & Balen AH. Targeting infertility in PCOS: unfolding “Ariadne’s thread Polycystic ovary syndrome: challenges and controversies. Editor E Diamanti-Kandarakis. Elsevier, Oxford, UK 2022, pages 153-165.

89. Balen AH. Polycystic ovary syndrome in adolescence. Paediatric & Adolescent Gynaecology for the MRCOG, Editiors N Crouch & C Williams. Cambridge University Press, 2023, pages 44-51.

90. Balen AH: PCOS and assisted reproduction. Texbook of Assisted Reproductive Techniques, 6th Edition, editors: DK Gardner, A Weissman, C Howles, Z Shoham. CRC Press, London, 2022, *in press*.

91. Balen AH: Polycystic ovary syndrome. Obstetrics & Gynaecology : An Evidence-based Text for MRCOG, Fourth Edition. Editors D Luesley and M Kilby; CRC Press, 2022, *in press.*

**Total 91**

**IV Other contributions to journals (reports, book reviews etc..)**

1. Balen AH: Report on the weekend meeting of the British Fertility Society Juniors, 1996. *Journal of The British Fertility Society*, 1997; 2: 5-6.

2. Balen AH. Polycystic ovary syndrome – mini-symposium editor. *Human Fertility* 2000; 3: 73-115.

3. Book Editorial*:* in “PCOS” by Colette Harris and Adam Carey, Harper Collins, 2000.

4. *Drug and Therapeutics Bulletin*: Polycystic ovary syndrome and treatment notes (review), 2001; 39: 1-5. Contributing author.

5. Balen AH. Book Review in *Human Fertility*: *Advances in Gynaecological Endocrinology*. Editors: A Genazzani, F. Petraglia, P. Artini, Parthenon Publishing Group, 2002. Human Fertility 2002; 5: 221.

6. Balen AH. Book Review in Human Fertility, Polcystic Ovary Syndrome, G. Kovacs 2002.

7. Balen AH. Book Review in *European Journal of O & G*: *Polycystic Ovary Syndrome*. Editors: R.J. Chang, J.J. Heindel, A. Dunaif, Marcel Dekker Publishers, 2003, 97: 106.

8. Balen AH. Book Review of A Guide to the Polcystic Ovary, G. Kovacs & J Smith.in The Obstetrician & Gynaecologist, 2003; 3: 188.

9. All Party Parliamentary Group on Infertility. *Infertility Treatment in the U.K., Taking NICE Forward* (February 2004)*.*

10. Balen AH. Foreword for “You can beat PMS”, Colette Harris and Theresa Cheung, 2004, Thorsens, London.

11. Drug and Therapeutics Bulletin: Diagnosis and drug treatment of anovulatory infertility in general practice (review), 2004; 42: 28-32. Contributing author.

12. Drug and Therapeutics Bulletin: Polycystic ovary syndrome and treatment notes (review, 2nd edition), 2004. Contributing author.

13. RCOG: Information for patients on PCOS, RCOG Press, 2004.

14. Balen AH. Ovarian hyperstimulation syndrome – A short report for the HFEA. Published on line, HFEA Website, 2005.

15. Balen AH. PCOS. *Pathways to Pregnancy*, 2006; (Spring/Summer) 38-39.

16. Balen AH. Metformin for the management of PCOS. Commentary for *A Decade of Success in ART – Book on occasion of Puregon’s 10th Anniversary*, Excerpta Medica, 2006; 107-108.

17. Balen AH. Editor’s choice; *BJOG* on Obesity, October 2006.

18. Balen AH. Book Review: Ovarian Hyperstimulation Syndrome: epidemiology, pathophysiology, prevention & management, Rizk B. *Human Fertility* 2007, **10:** 189.

19. Balen AH. Forewordfor “The Menopause Diet Book”, Theresa Cheung, 2007, Vermillion, Random House, London.

20. Balen AH. Ovarian hyperstimulation syndrome – A short report for the HFEA. Published on line, HFEA Website, 2008.

21. Balen AH. The Endometrium (2nd Edition), Molecular, cellular and clinical perspectives. Edited by John Aplin, Asgerally Fazleabas, Stanley Glasser and Linda Giudice. Book Review for *Human Fertility* 2009; **4:** 209-210.

## 22. Balen AH. [The British Fertility Society – committed to providing good information for patients](http://www.bionews.org.uk/page_720483.asp). *BioNews* [875](http://www.bionews.org.uk/page_748826.asp),31 October 2016.

23. Balen AH. [IVF practices challenged: a response](http://www.bionews.org.uk/page_748909.asp). *BioNews* [880](http://www.bionews.org.uk/page_748826.asp),5 December 2016.

## 24. Balen AH. [The place of fertility education in UK schools](https://www.bionews.org.uk/page_141759). *BioNews* [989](http://www.bionews.org.uk/page_748826.asp), 4 March 2019.

25. Balen AH. Reflections of a fertility doctor through the COVID-19 Crisis *BioNews* 1047, 18 May 2020

26. Quoted on back cover of “Presenting the first test-tube baby” edited by Kisby Littleton F, Bewley S & Drife JO, CUP, March 2023.

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**Total 25**

*Booklets and Mini-Symposia*

#### 1. Infertility 2000 – Postgraduate Update Series Journal. Balen AH - Editor-in-chief. Excerpta Medica, The Netherlands, 2000; 68 pages.

2. Mini-symposium on Polycystic Ovary Syndrome, Balen AH, Editor: Human Fertility, 2000, Volume 3, number 2, pp 73-115.

3. GnRH antagonist protocols in practice, Balen AH, Symposium Editor: Human Fertility, 2002, Volume 5, number 1, pp G1 – 48.

4. Evidence Based Management of Anovulation. Summary papers form an ESHRE/RCOG symposium, April 2004. Human Fertility 2004; 7: 183-208.

5. BJOG Special Edition on Obesity, October 2006. Editor of entire issue, devoted to obesity, plus editorial.

6. BJOG Special Edition on The Gynaecological and Reproductive Helath Problems of Puberty and Adolescence, January 2010. Editor of entire issue, devoted to adolescent reproductive health, plus editorial.

**Synopsis of career**

Having completed my house jobs, I spent six months in the casualty department of St Bartholomew's Hospital before going to South Africa for a year. It was there that I worked as one of three doctors, at St Rita's Hospital, which is an old 350 bed mission hospital in the then "tribal homeland" of Lebowa - then in the Northern Transvaal which is now known as Limpopo Province. I gained considerable experience in the management of medical, surgical, paediatric and obstetric problems. Whilst our equipment and drugs were adequate most of the time, the facilities were very basic and I was one of a small team of usually 3 doctors, although occasionally on my own for several days. It was not an uncommon practice, for example, to find myself being anaesthetist, obstetrician and paediatrician rolled into one during caesarean section operations - sometimes under the light of battery operated torches. I started a support service for the rural clinics, visiting them on a regular basis and teaching the clinic sisters in obstetrics and paediatrics. I also interacted with the Department of Health to improve the facilities at the hospital and in the region.

I returned to England to start a pre-arranged G.P. rotation where my first job was as an S.H.O. in Obstetrics and Gynaecology and it was then that I realised that this was my vocation. I therefore moved to the teaching hospital environments of first The London Hospital and then The Samaritan Hospital for Women. I moved from the Samaritan to work as an S.H.O. in Endocrinology and Diabetes at the Middlesex Hospital, to complete my elective year for the MRCOG. My duties were primarily on the wards, but I took the opportunity to attend the reproductive endocrinology clinics run by Professor Howard Jacobs, and in addition his ovulation induction clinics and research meetings and decided that this was an area in which I wanted to develop a special interest.

I completed my S.H.O. training with a term at Queen Charlotte's Maternity Hospital which left me enthusiastic to start my registrar rotation on the St Mary's circuit, which commenced at the Central Middlesex Hospital, London. I realised that there was a need for a comprehensive teaching guide to cardiotocography, which at that time was not available. I therefore collected the CTG's of 25 women, both antenatal and intra-partum and used them to teach the S.H.O.'s and midwives. I arranged the CTG's together with the clinical case history and partogram, so that the CTG's fitted into the clinical context of each case. The resultant manual was very popular, so I added teaching points on labour ward practice and the book was published by Churchill Livingstone as "*The CTG in Practice*" - and sold approximately 2,500 copies worldwide.

A clinical research fellowship with Professor Howard Jacobs at the Middlesex Hospital became available and so I took a break from my registrar rotation to work both at the Middlesex and also at the Hallam Medical Centre, London, which was the London branch of Bourn Hall, Cambridge, whose scientific director was Professor Bob Edwards - the “father” of IVF. It was at the Hallam that I learnt how to manage both female and male infertility and the practice of IVF. At the Middlesex Hospital I ran the ovulation induction clinic and also worked in the general endocrine clinic. My main research interest was in the hypersecretion of luteinising hormone in women with the polycystic ovary syndrome (PCOS). I explored the hypothesis that these women are deficient in an ovarian LH-inhibitory factor, termed “gonadotrophin surge-attenuating factor”. I developed a research protocol in collaboration with the scientists of the Division of Endocrinology at the National Institute for Biological Standards and Control (NIBSC), which was headed by Professor Steve Jeffcoate. I also established the bioassay for the first International standard for human inhibin. My MD thesis was awarded in 1995.

Following the Middlesex I started on the registrar rotation between Hillingdon and Queen Charlotte's Hospitals, before moving on to become senior registrar/subspecialist trainee in Reproductive Medicine at the John Radcliffe Hospital, Oxford, under the supervision of Professor David Barlow. I finished with a general senior registrar year, working for Mr Mark Charnock, the gynaecological oncologist in Oxford. My main area of research in Oxford was in the sphere of adolescent endocrinology and gynaecology. I set up a large epidemiological study jointly with Professor Martin Vessey (Department of Epidemiology) and Dr David Dunger (Paediatric Endocrinologist). We explored the association between obesity, age at menarche, menstrual cycle disorders, eating habits and diet together with serum endocrinology, ovarian morphology and risk factors for disease in adulthood. We obtained two large grants and I was the principal supervisor of a D.Phil which was awarded to Dr Kathy Michelmore, a Rhodes Scholar from the USA, in 2000.

**Current Post**

I was appointed to my Consultant post in Leeds, first at the General Infirmary, in 1996 in Obstetrics and Gynaecology although I have since discontinued my obstetric practice in order to focus on Reproductive Medicine. My main responsibilities are to the Department of Reproductive Medicine, where I was “Person Responsible” of The Reproductive Medicine Unit – one of the largest in the country with over 1100 cycles of IVF per year. In 2010 we merged with the St James’ unit into the new Leeds Centre for Reproductive Medicine at Seacroft Hospital, where we have the capacity for 2000 IVF cycles per year and the full range of reproductive medicine treatments. I am clinical lead of the service and am also responsible for reproductive endocrinology, ovulation induction and reproductive surgery. I have a particular interest in all aspects of polycystic ovary syndrome and run a dedicated PCOS clinic. I have also established a supra-regional centre for the management of Disorders of Sexual Development and paediatric and adolescent gynaecology, which has input from 12 consultants from other disciplines. This has become the supra-regional referral service for the North of England and I see many complex cases which require reconstructive surgery.

I am actively involved nationally and internationally in the sphere of Reproductive Medicine, as past treasurer and chair of the Policy and Practice Committee of the British Fertility Society and as Chair of the Society from 2015 to 2018. I am now a trustee. As Chair of the BFS I expanded the outward facing nature of the Society by overseeing the foundation of two Special Interest Groups (SIGs) on Fertility Preservation and Fertility Health Education. The latter “The Fertility Education Initiative” is aimed at enhancing relationship and sex education (RSE) to young people by including more information about fertility, what affects it and how fertility changes over time. I convened a Summit in 2016: *Fertility Health Education: Choice not Chance*, which for the first time has brought all stakeholder groups together to discuss and improve RSE in the UK and we were successful in 2019 in getting Government to include fertility and reproductive health in the national curriculum for RSE in schools.

I was Chair of the NHS England IVF Pricing Development Expert Advisory Group, which aimed to achieve a national tariff and equality around the UK for the funding of assisted conception treatments. I also sat for many years on the executive committee of the *Fertility Fairness* campaign.

I was the founding secretary of the British Society for Paediatric and Adolescent Gynaecology. I also have roles on many local hospital and university committees and nationally at the RCOG. I have developed an interest in prion disease and served on the Department of Health’s CJD incident panel. I am medical advisor to a number of patient support organizations, including *Fertility Network UK*  and  *Verity* (for PCOS) and am a founder of *PCOS UK* for all healthcare professionals working with PCOS, for which I have wrote national guidelines.

I have been involved internationally as an assistant editor on 4 journals *Human Reproduction, British Journal of Obstetrics and Gynaecology, Clinical Endocrinology* and  *Human Fertility*. Having been a committee member of the The European Society of Human Reproduction and Embryology (ESHRE) Special Interest Group on Reproductive Endocrinology, I was elected chair in 2007 to 2011. I have been on the scientific committee of many international symposia. I have also organized a number of national and international meetings, including the joint ESHRE/RCOG *Evidence Based Management of Anovulatory Infertility*, which was a highly acclaimed sell out meeting in London, April 2004. I also personally organized a second joint ESHRE/RCOG meeting in London, in November 2007: *Polycystic Ovary Syndrome: A Condition Of Our Time*, which was again sold out and again required an overflow lecture theatre with a video link.

In 2007 I co-convened an RCOG Study Group on Obesity and Reproduction and in 2010 on PCOS, both of which resulted in the publications of books on the subject. I have been a member of all 3 ESHRE/ASRM Consensus Workshops on PCOS (2003, 2008 and 2010) and the 2012 NIH Consensus on PCOS. I was Chair of the Expert Working Group on the management of PCOS for the WHO Global Infertility Guideline Committee, which completed its guideline in 2015 and continue to work on the re-formed WHO Guideline Development Group that is producing an international guideline on infertility in 2021. I am also a member of the Global PCOS Alliance which published international guidelines in 2018, which are due to be updated in 2022.

I have considerable administrative experience in relation to hospital and society committee work, organising meetings, educational courses and both undergraduate and post-graduate teaching programmes. I am also involved in the running of an MSc course in clinical embryology. I served first as secretary and then as chairman of the Leeds Teaching Hospitals O&G Committee for 6 years and in 2006 was elected Chair of the Hospitals’ Senior Medical Staff Committee, which represents over 800 consultants in the largest NHS trust in the UK - a position I held for 6 challenging years.

In 2017 I was elected Fellows’ Representative on the RCOG Council for Northern, Yorkshire, Humber Region and was re-elected for a second term in 2020. Through the RCOG I organised the first *Fertility Forum* - a day for the public to provide evidence-based, non-commercial information on all aspects of reproductive health.

**Publications and research interests**

I have now published over 270 original papers. I have also written over 80 chapters and approximately 50 review articles/editorials and commentaries. I have written 15 books, one on cardiotocography, one on infertility (5 editions - over 50,000 copies sold world wide), one on reproductive endocrinology (two editions), one on obesity and reproduction (co-edited), three on PCOS and am editor-in-chief of a 43 chapter comprehensive textbook on paediatric and adolescent gynaecology. My latest book is for the public and is written together with my partner, Grace Dugdale who is a reproductive biologist and nutrition scientist. I have lectured widely both at home and at international meetings.

I run the ovulation induction programme and have performed a number of studies of different gonadotrophin stimulation regimens. We performed the first adequately powered, prospective, double-blind placebo controlled RCT on the use of metformin for anovulatory PCOS. We have completed two of the largest RCTs in the use of metformin for PCOS, which have had international influence on management of this condition and we have recently updated the Cochrane database. Basic research into the pathophysiology of PCOS includes work on apoptosis in polycystic ovaries and ethnic differences in the expression of PCOS and the genetics of PCOS. Some of the genetic work was in collaboration with Professor David Dunger, Department of Paediatrics Cambridge. We are exploring ethnic differences in the expression of PCOS and insulin resistance, in collaboration with Professor Chandrika Wijeyaratne, from Sri Lanka, who spent 2 years in Leeds working for her PhD thesis and with whom we continue to collaborate. I have now supervised the completion of 11 MD/PhD theses in various aspects of PCOS.

I have coordinated a number of projects on the Assisted Conception Unit concerning different treatment protocols, new drug regimens and factors that affect outcome. The Department of Reproductive Medicine also has a number of ongoing projects that I am participating in as a collaborator, much of which has major external funding from various bodies including the MRC and BBSRC. These studies include ovarian tissue and oocyte cryopreservation, *in vitro* maturation of oocytes and follicles and the control of oogenesis and oocyte maturation. My main scientific collaborator is Professor Helen Picton, who heads our research laboratories. In 2004 I was awarded a personal chair in Reproductive Medicine and Surgery and in 2010 was awarded the DSc by Leeds University.

**Hobbies and Interests**

In the past I was a keen sportsman and could be found rowing the year round, I then moved on to skiing and tennis. I spend as much free time as I can tending to my garden in the Yorkshire Dales.