

## Dr.N.Pandiyan

Chief Consultant in Andrology and  
Reproductive Medicine,  
Head of the Department,  
Chettinad Health City,  
Kelambakkam, Tamil Nadu



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Date of Birth: 01-01-1953.

Present Address: 13, 5<sup>th</sup> Main Road,  
Rajah Annamalai Puram,  
Chennai-600028. India.

### Academic Qualifications:

- 1) 1977 -M.B.B.S. Madras Medical College, Madras, India.
- 2) 1979 -D.G.O. Madras Medical College, Madras, India.
- 3) 1980- M.D. Madras Medical College, Madras, India.
- 4) 1981-M.N.A.M.S. Madras Medical College, Madras, India.
- 5) 1985 to1987- Post Doctoral Fellowship Training in Andrology and Reproductive Sciences. University Hospital, Queens Medical Centre, University of Nottingham, U.K.

### *Research Summary*

<i>Papers</i>	17	<i>Cites/paper</i>	5.18	<i>h-index</i>	2	<i>AWCR</i>	5.14
<i>Citations</i>	88	<i>Cites/author</i>	48.50	<i>g-index</i>	9	<i>AWindex</i>	2.27
<i>Years</i>	26	<i>Papers/author</i>	12.07	<i>hc-index</i>	1	<i>AWCRpA</i>	2.95
<i>Cites/year</i>	3.38	<i>Authors/paper</i>	1.94	<i>hl-index</i>	1.33	<i>e-index</i>	8.94
				<i>hl-norm</i>	2	<i>hm-index</i>	1.50

## Registration:

### **Tamil Nadu Medical Council:**

Permanent Registration No: 28975.

### **General Medical Council:**

Limited Registration for two years-Oct 1985 to Sep 1987.

Registration No: 85/0782.

### **Sri Lanka Medical Council.**

Certificate of Temporary Registration No: 1037.

### **Brunei Medical Council:**

Registration no: M-22-0365

## **Positions held:**

- 1) Member – Board of management – Chettinad Academy of Research and education- Oct 2010 to Oct 2012.
- 2) Chief Consultant in Andrology and Reproductive Medicine and Head of the Department, Chettinad Health City, Kelambakkam, Tamil Nadu – Aug 2007 till date
- 3) Consultant in Andrology, Reproductive Medicine, Obstetrics and gynaecology and Head of the department of Obstetrics and Gynaecology, Jerudong Park Medical centre, Jerudong park, Brunei Darussalam may 2005 to May 2007.
- 4) Chief Consultant in Andrology and Reproductive Sciences, Apollo Hospitals, 21,Greams Lane, Off Greams Road, Chennai-600006, 1997 to May 2005.  
Involves consultation for Infertile men and women, counseling, medical and surgical management of male and female infertility and planning and execution of all Assisted Reproductive Technologies, like IVF, ICSI, MESA, PESA etc.  
Teaching of undergraduates, postgraduates and Research Scholars at The Tamil Nadu Dr. M.G.R. Medical University and for the National Board of Examinations.
- 5) Expert Committee member and member of several task force meeting at the Indian Council of Medical Research and for the Department of Science and Technology, New Delhi.
- 6) Examiner at several Indian Universities and at National Board of Examinations, New Delhi and at University of Colombo.

- 7) Member: Ph.D screening committee of The Tamil Nadu Dr.M.G.R Medical University, Chennai, India.
- 8) Member: Governing Council of The TamilNadu Dr.M.G.R. Medical University, Chennai, India till 2005.
- 9) Editor: Reproductive Biomedicine Online- an International journal published from Cambridge-Prof. Robert Edwards, the pioneer of IVF technology is the Chief Editor.

### **Major Scientific Contributions and Honours:**

- 1) First semen bank in India-Jan 1988.
- 2) First IVF twins with frozen spermatozoa in Asia –Nov 1992.
- 3) First world report on Cryopreservation of Epididymal spermatozoa-Sep 1993.
- 4) First South Indian report on the birth of a baby born by epididymal sperm aspiration and assisted reproduction. -1995.
- 5) First baby to be born in Chennai after Trans cervical tubal cannulation for bilateral cornual block of the fallopian tubes-1997.
- 6) First world report on 'Cryopreservation of testicular tissue' and its superiority over 'Cryopreservation of spermatozoa recovered from the testicular tissue.' –1997.
- 7) Reported a new 'Non invasive technique of sperm retrieval from the bladder in retrograde ejaculation.'-1998.
- 8) Reported a new technique of 'Vasal sperm aspiration in situational anejacualtion.'-1999.
- 9) Editor and contributor of 'Scientific book and abstracts ' of the 'Annual conference of the Indian society of Assisted Reproduction'-Feb 1998.
- 10) Editor and contributor in 'Handbook of Andrology, -March 1999.
- 11) Several Orations in Professional conferences and in the Medical University.
- 12) Interviewed by BBC Radio, London on the programme 'Science in action. 'and broadcasted worldwide.
- 13) Featured in Millennium edition of Marquis Who is Who.
- 14) Delivered several Invited lectures at USA, UK, Sri Lanka, Singapore, Malaysia and several parts of India.
- 15) Featured in Limca Book of Records- 1995.
- 16) Interviewed by BBC London on 3 occasions on the occasion of the International conference on, 'Motherhood in the Twenty First century- Sep 2009.'

- 17) Life Time achievement Award from The Tamil Nadu Dr MGR Medical University on 05<sup>th</sup> Sep 2012.
- 18) Started several innovative teaching and training programmes in Andrology and Reproductive Medicine for medical postgraduates and nurses. Trained, so far, more than 50 gynaecologists from all over India and abroad in the field of Andrology and Reproductive Medicine.
- 19) Awarded the certificate of Honour by the Science club Chennai – Sep 2012.

### **Infertility and IVF work:**

- 1) Started the first Infertility Clinic in Madras Medical College in 1983 at the Institute of Obstetrics and Gynaecology.
- 2) On return from U.K, started the first joint male and female infertility clinic in India in 1987 at Government General Hospital and Madras Medical College.
- 3) Started the first department of Reproductive Medicine at Apollo Hospitals, Chennai.
- 4) Co-founder of the IVF unit at Apollo Hospitals.
- 5) Has helped in the establishment/running of Infertility/IVF clinics at Kanchipuram, Vijayawada, Rajahmundry, Nellore, Bangalore, Coimbatore, Erode, Colombo, Sri Lanka, Brunei.
- 6) Has trained over 40 clinicians and lab technologists from all over India, neighboring countries, Saudi Arabia and Dubai in Infertility and IVF work.
- 7) Considered as one of the less than ten gynaecologists in the world trained in the medical, surgical and IVF management of infertile men and women. (as said by Dr. Sherman Silber of USA, pioneer of Male Infertility micro surgery)

### **Education:**

Schooling at Rajah Muthiah High School, Rajah Annamalai Puram, Chennai-600028, India.

Won several prizes, silver medals and gold medals in curriculum, debates, oratorical competitions at state level and in sports.

School pupil leader and student representative to the editorial board of the school magazine.

## **Academic Awards:**

### During under graduation:

- 1) First certificate of honour in Organic Chemistry-1971.
- 2) Samuel Jesudoss Prize in Pharmacology for being first in Pharmacology—1973.
- 3) George Smith Prize in Pathology for being first in Pathology-1974.
- 4) Social and Preventive Medicine- First prize in Essay and extempore elocution -1975.
- 5) Obstetrics and Gynaecology—won several prizes and Gold medals-1975.
- 6) Was awarded the Rani Vidyawathi Devi memorial scholarship for academic excellence 1972-1975.
- 7) Won the IMA scholarship for academic excellence.
- 8) Represented Madras Medical College at the All India students seminar on Curriculum development held at New Delhi-1976.
- 9) Student Union President of Madras Medical College—1976.

### During Post graduation:

D.G.O. Stood first in the University of Madras.

M.D. Stood first in the University of Madras.

Won several prizes and gold medals—like:

- 1) Edmund Lurdle Chulk memorial Prize.
- 2) Mira Sengupta gold Medal.
- 3) A.L. Mudaliar Prize.

M.N.A.M.S. Stood first in India.

## **Experience and posts (in India):**

[Senior House Officer](#) in Obstetrics and Gynaecology at Postgraduate Institute of Medical Education and Research, Chandigarh. Jan 1977 to April 1977.

[Potgraduate in Obstetrics and Gynaecology](#) at the Institute of Obstetrics and Gynaecology and Government Hospital for Women and Children, Egmore and at the Madras Medical College, Chennai. - April 1977 to April 1980.

[Assistant Professor of Obstetrics and Gynaecology](#)—Institute of Obstetrics and Gynaecology and Madras Medical College, Chennai. -June 1980 to Sep 1985.

**Assistant Residential Medical Officer:** Served for more than a year at Government Hospital for Women and Children, Egmore- a large 625-bedded hospital; the largest in India and one of the largest maternity hospitals in the world. It has over 16000 deliveries per year.

### **Clinical Experience:**

- 1) Gained enormous experience in all aspects of Obstetrics and Gynaecology, while at Postgraduate Institute of Medical Education and Research, Chandigarh, India and at Government Hospital for Women and Children, Egmore and Madras Medical College.
- 2) Independently handled almost all Obstetric and Gynaecological problems.
- 3) Practicing Laparoscopy since 1978 and Ultrasonography since 1983.
- 4) Was running an Infertility Clinic at Government Hospital for Women and Children, Egmore, Chennai-600008, since 1983.

### **Experience gained in UK:**

- 1) Worked as a Research Fellow in Infertility at University Hospital, Queen's Medical Centre, Nottingham, U.K., on the prestigious Commonwealth Scholarship awarded by the Government of U.K.-Oct 1985 to Sep 1987.
- 2) Was involved in the medical, surgical and endocrinological management of infertile couple. Infertility Clinic at University Hospital was a very busy facility with a waiting time of well over 1 year.
- 3) Was in charge of managing patients on the GnRH (Gonadotrophin Releasing Hormone) pump- a facility available at very few centres. This was used for Induction of ovulation in patients with Hypothalamic Amenorrhoea.
- 4) Was involved in basic research on Sertoli cell culture and the influence of hormones like testosterone, FSH, LH on transferrin production by Sertoli cells in culture.
- 5) In 1985 we had one of the first CASA-Computer Assisted Semen Analysis systems in the world. Worked on it for 2 years.
- 6) Attended several conferences, presented many papers, participated in several workshops and published few papers from U.K.

## Paper Publications:

- 1) Maternal mortality in Abruptio placenta-a five-year study-Proceedings of International seminar on Maternal and perinatal mortality. New Delhi.1981.
- 2) Infertility in the 'Antiseptic' 1983.vol 8o.No.1, p 1to5.
- 3) 'Teaching pattern in a premier institution in Tamil Nadu in South India'. Proceedings of the 10<sup>th</sup> World Congress of Obstetrics and Gynaecology-Berlin 1985.
- 4) 'Natural childbirth' - World fertility congress-Proceedings-Athens 1985.
- 5) Extra uterine pregnancy- chapter in the third edition of the book 'Postgraduate Obstetrics and Gynaecology' edited by Prof.MKK. Menon, Prof. P.K. Devi and Pro.K Bhasker Rao- published by Orient Longman, 1986.
- 6) Abnormal Karyotype in the infertile male- Proceedings of the Society for study of Fertility. Hull, U.K., July 1986.
- 7) Induction of ovulation with pulsatile GnRH pump in non amenorrhic dysovulatory women- Human Reproduction-July 1987.
- 8) Post molar contraception-A review article – Obstetric and Gynaecological Survey.Vol 43.No.5.1988-p258-262.
- 9) Borderline Azoospermia-Jl of Rep and Fert-July 1989.
- 10) Empty follicle syndrome-Proceedings of the 'Annual conference of Obstetric and Gynaecological societies of India-Nagpur Dec 1990-p76.
- 11) Chapter on 'Extra uterine pregnancy for the 4<sup>th</sup> edition of Postgraduate Obstetrics and Gynaecology. Orient Longman, Madras. Ed.Prof K. Bhasker Rao.1989.
- 12) Hyperprolactinaemia and Erectle Dysfunction-Proceedings of the 'International Conference on Perspectives in Primate Reproductive Biology.Bangalore, 1990. P.61.
- 13) 'Induction of Ovulation and Multiple pregnancy'- Human Reproduction- July 1991.
- 14) Epididymal spermatozoa, intrauterine insemination and invitro fertilisation – Human Reproduction. July 1991.

- 15) Assisted Reproductive Technologies-Proceedings of the Symposium on 'Infertility'.Published by Rourkela Obstetric and Gynaecological society. Dec 1991.
- 16) Chapter on Male infertility. In the book 'Obstetrics and Gynaecology for postgraduates. Ed. Prof.SS Ratnam, Prof. K. Bhasker Rao and Prof.S.Arulkumaran,Vol 1. Orient Longman publications-1992.
- 17) Induction of ovulation- Proceedings of the National association of Voluntary sterilization and family welfare India. Nov 1992, Ahmedabad.
- 18) Oligozoospermia- Proceedings of the National association of Voluntary sterilisation and family welfare, India, Nov 1992, Ahmedabad.
- 19) Induction of Ovulation and Multiple pregnancies- National medical Journal of India-1995; 6; 147.
- 20) Dysfunctional uterine Bleeding in the section 'Everyday practice' - National medical journal of India- 1993.6; 172-174.
- 21) Macro epididymal sperm aspiration—J Asst rep and Genetics- Aug 93;Vol 10; No6; p 278.
- 22) Cryopreservation of Epididymal spermatozoa-J Asst rep and Genetics- supplement Vol 10.No6. P278.
- 23) Chapter on Ovarian hyper stimulation syndrome in the book on Infertility Update published by FOGSI Ed: V.B.Patwardhan,Mehroo D.Hansotia.1994.
- 24) Laparoscopic endocautery is ineffective in the treatment of PCOD- Human Reproduction- June 1995.
- 25) Recent advances in Reproductive medicine- Proceedings of the symposium on ' Recent trends in reproduction'. – Indian Institute of Science p18= May 1995, Bangalore.
- 26) The Human epididymis does not confer any known function to the spermatozoa- J asst Rep and Genetics-march 1995- Vol 12 No3 p 51.
- 27) Old wine in a new bottle'- Laparoscopic endocautery of PCOD- J asst rep and Genetics. March 1995; vol 12; No3.
- 28) Doctors talk it over- Genetics , society and the future- J of General medicine- 1991- Vol 3- No4, P 17 to 25.



- 29) Semen analysis- Problems and pitfalls= Indian Progress in Family welfare Eds CS Ddawn, Anil misra Vol 10, p229-231, 1995.
- 30) Cryopreservation of Epididymal spermatozoa ' Current Science' 1995 ; 69;11;699-900.
- 31) IVF twins with frozen spermatozoa- first Asian report j Obstet & Gynaec of India; 45; 419; 1995.
- 32) Medically assisted reproductive technologies a clinical perspective- Current Science. 1995; 68; 370-382.
- 33) Hand book of Andrology- Dec 1996- Chapter on management of Male infertility'.
- 34) Epididymal spermatozoa in Art – Proceedings of the 40<sup>th</sup> All India Congress of Obstetrics and Gynaecology.
- 35) Mitotic chromosomal anomalies in 1210 infertile men – Human reproduction-1996-11-2604-2608.
- 36) Cryopreservation of testicular tissue- a preliminary report- Current science.
- 37) Epididymal spermatozoa in ART- J of Obstet & Gynaec of India.
- 38) Sperm retrieval from the bladder – A simple non invasive technique- J Asst Rep and Genetics-1998.
- 39) Vasal sperm aspiration- in situational anejaculation-J ASSt Rep & Genetics- 1999.
- 40) Antisperm antibodies-Proceedings Of the International Conference on Reproductive Health.1997.
- 41) Sperm retrieval techniques- Proceedings of the International conference on reproductive Health, Kolkatta- 1997.
- 42) Mitotic chromosomal anomalies in Human male infertility- a reply- Human Rep.
- 43) Antisperm antibodies and infertility- J of Urology.
- 44) Cryopreservation of testicular tissue—Fertil Steril;1998.
- 45) Medical management of Male infertility-RBM online 2000.

- 46) Gender selection for family balancing-RBM online-2002.
- 47) Semen analysis- in the book on Infertility published by FOGSI.
- 48) Stem cell Research- Hope and Perspectives- Proceedings of the Endocrinology Conference. Madurai 2002.
- 49) Hand book of Andrology- Editor and author of a chapter – 1st edition 1999.
- 50) Chapter on Male infertility 2<sup>nd</sup> edition-of the book- Obstetrics and Gynaecology for postgraduates—1998.
- 51) Editor and author of Scientific book and abstracts- Indian society of Assisted reproduction and Genetics.
- 52) Cryopreservation of testicular tissue- J Asst Rep & Gen 1997.
- 53) Stem cell research. What is it? Why all this fuss about? - Proceedings of the Symposium on Stem cell research conducted by MV diabetes specialities center. -and department of science and technology. March 2002
- 54) Surgical management of male infertility- Proceedings of the ART conference at Ahmedabad, Gujarat.
- 55) Handbook of Andrology- author and editor- 2<sup>nd</sup> edition in press.
- 56) Post molar contraception- 1986- Nottingham medico chirurgical research society meeting. - Proceedings.
- 57) Abnormal karyotype in the Infertile male-1987- Nottingham medico chirurgical research society meeting.
- 58) Surgery for male infertility- Proceedings of 1st Isabel' Hospital symposium.
- 59) Genomics of male infertility- ICMR workshop.
- 60) Medical drugs impairing fertility-pp187-203; chapter in a book on Reproductive health and the environment. Edited by P.Nicolopoulou-Stamati, L.Hens and C.V.Howard. Published by Springer, Netherlands, 2007
- 61) Lay Press Publications:
  - In The Hindu on
  - 1) Cloning.

2) Infertility.

3) Reproductive hazards of smoking.

And numerous other papers and magazines, besides programmes on the TV and radio.

**Research and audit experience:**

**Clinical Research:**

- 1) Induction of Ovulation in Anovulatory patients with GnRH (Gonadotrophin releasing hormone) pulsatile infusion
- 2) Biophysical profile of Spermatozoa obtained from different levels of the genital tract.
- 3) Cryopreservation of Spermatozoa from the epididymis, testes and testicular tissue.
- 4) Gonadal protection in men undergoing chemo therapy/radiotherapy.
- 5) Genomics of Male Infertility.

**Papers and Posters presented to learned societies:**

Well over 300. Will try and furnish the list if interested.

**Conferences and courses attended:**

Numerous. Will try and furnish the list if interested.

**Extra curricular activities:**

Active Rotarian- was involved in the running of a charitable hospital- Ambattur Rotary Hospital. Now an Honorary Rotarian.

Chess player.

Keen debater.

Avid Reader.

**Referees:**

- 1) Prof. Anne M Jequier—(my former consultant in Nottingham with whom I worked for two years in U.K.),  
246, Hamersley Road, Subiaco, Western Australia, 6008.  
E- mail: [ajequier@bigpond.net.au](mailto:ajequier@bigpond.net.au)
- 2) Prof. Robert G Edwards—(the IVF- test tube baby- pioneer), Nobel Laureate, Chief Editor, Reproductive Biomedicine Online, Duck End farm, Park lane, Dry Drayton, Cambridge CB38DB, U.K. E- mail: [rge@rbmonline.com](mailto:rge@rbmonline.com)