

## ***CURRICULUM VITAE***

**Name:** Patricia Mary McShane, M.D.

### **Education:**

1971 A.B. St. Louis University, St. Louis, Missouri  
(magna cum laude)

1977 M.D. Tufts University School of Medicine

### **Postdoctoral Training:**

1977-1978 Intern, Obstetrics & Gynecology, Boston Hospital for Women

1979-1981 Resident, Obstetrics & Gynecology, Boston Hospital for Women

1981-1983 Fellow, Reproductive Endocrinology and Infertility, Brigham and Women's Hospital

### **Licensure and Certification:**

1980 - 2008 Massachusetts License Registration No. 46920  
1984 American Board of Obstetrics & Gynecology (Diplomate)  
1985 American Board of Obstetrics & Gynecology, Reproductive  
Endocrinology Division (Diplomate)  
1998 - 2007 Rhode Island License Registration No. 09784  
2007 Colorado License Registration No. 45296

### **Academic Appointments**

1977-1980 Clinical Fellow in Obstetrics & Gynecology, Harvard Medical School  
1981-1982 Instructor in Obstetrics & Gynecology at the Brigham and Women's  
Hospital, Harvard Medical School  
1982-1985 Instructor in Obstetrics & Gynecology, Harvard Medical School  
1985-1988 Assistant Professor of Obstetrics & Gynecology, Harvard Medical School  
2003-2006 Associate Professor of Obstetrics & Gynecology, UMass Medical Center  
2007-present Assistant Professor of Obstetrics and Gynecology, U of Colorado Health  
Sciences Center

### **Hospital Appointments:**

1981-1983 Assistant Obstetrician/Gynecologist, Boston Hospital for Women  
1983-1988 Obstetrician/Gynecologist, Brigham and Women's Hospital  
1984-1988 Director, In-Vitro Fertilization Program, Brigham and Women Hospital  
1988-2003 Obstetrician/Gynecologist, Waltham Hospital  
1993-1995 Clinical Associate in Obstetrics & Gynecology, Massachusetts General  
Hospital  
2003-2006 Obstetrician/Gynecologist, Emerson Hospital  
2003-2006 Obstetrician/Gynecologist, Newton-Wellesley Hospital  
2007-present Obstetrician/Gynecologist, University of Colorado Hospital

**Honors:** 1970 - Phi Beta Kappa

**Memberships, Offices & Committee Assignments in Professional Societies:**

1981-	American Medical Women's Association
1981-	American Society for Reproductive Medicine
1983-	Massachusetts Medical Society
1983-1986	Junior Fellow - American College of Obstetricians and Gynecologists
1984-	American Medical Association
1984-	Physicians for Social Responsibility
1985-1987	Chairwoman, Network of Women in Academic Medicine, Sponsored by Office for Academic Careers, Harvard Medical School
1986-1990	Councillor, Massachusetts Medical Society, Charles River District
1986-	Fellow, American College of Obstetrics and Gynecology
1987-	ASRM, Women's Council
1987-1988	Dean's Appointee, Faculty Council, Harvard Medical School
1987-1993	American Fertility Society, Sessions Management Committee
1987-	Society of Reproductive Endocrinologists, American Society for Reproductive Medicine
1989-2006	New England Obstetrics & Gynecological Society
1989-1990	President Elect, Boston Fertility Society
1990-1991	President, Boston Fertility Society
1995-2006	Member, Boston Obstetrical Society
1995-1997	ASRM, SART Abstract Committee
1997	Chairperson Elect, Woman's Council, American Society for Reproductive Medicine
1999-2001	Chair, Woman's Council, American Society for Reproductive Medicine

**Patricia M. McShane, M.D.**

**Principal Clinical and Hospital Service Responsibilities:**

1984-1988	Director, In-Vitro Fertilization Program, Brigham and Women's Hospital
1988-2006	Medical Director, Reproductive Science Center, Lexington, MA
1992-1997	Vice President, Medical Affairs, IntegraMed America, Purchase, NY
1997-1998	Chairwoman, Physician Council, IntegraMed America, Purchase, NY

**Bibliography:**

**Original Reports:**

1. Schoolwerth AC, Sandler RS, Hoffman (aka McShane) PM, Klahr S. Effects of nephron reduction and dietary protein content on renal ammoniogenesis in the rat. *Kidney Int.* 1975;7:397.
2. McShane PM, Bern M, Schiff I. Thrombotic thrombocytopenia purpura and oral contraceptives: a case report. *Am J Obstet Gynecol.* 1983;145:763
3. McShane PM, Reilly RJ, Schiff I. Pregnancy outcomes following Tompkins metroplasty. *Fertil Steril.* 1983;40:190
4. McShane PM, Fencl MdeM. Conversion of progesterone to corticosteroids by fetal adrenal and kidney. *Steroids* 1983;42:299-310.
5. Evans SE, McShane PM. The efficacy of internal iliac artery ligation for obstetrical hemorrhage. *Surg Gynecol Obstet.* 1985;160:250.
6. McShane PM, Heyl PS, Epstein ME. Maternal and perinatal morbidity resulting from placenta previa. *Obstet Gynecol.* 1985;65:176.
7. McShane PM, Schiff I, Trentham D. Cellular immunity to sperm in infertile women. *JAMA* 1985;235:3555.
8. Barbieri RL, McShane PM, Ryan KJ. Constituents of cigarette smoke inhibit human granulosa cell aromatase. *Fertil Steril.* 1986;46-232.
9. Kiessling AA, Loutradis D, McShane PM, Jackson KV. Fertilization in trypsin treated oocytes. *Ann NY Acad Sci.* 1988;541:641-620.
10. Phipps WR, Benson CB, McShane PM. Thigh myositis following intramuscular progesterone injections in an in vitro fertilization patient. *Fertil Steril.* 1988;49:536-537.
11. Hornstein MD, Barbieri RL, McShane PM. Effects of previous ovarian surgery on the follicular response to ovulation induction in an in vitro fertilization program. *J. Repro Med* 1989;34:277-81.

**Patricia M. McShane, M.D.**

12. Hornstein MD, Barbieri RL, Ravnikar VA, McShane PM. The effects of baseline ovarian cysts on the clinical response to controlled ovarian hyperstimulation in an in vitro fertilization program. *Fertil Steril*. 1989;52:437-40.
13. Glatstein IZ, Pang SC, McShane PM. Successful pregnancies with the use of laminaria tents before embryo transfer for refractory cervical stenosis. *Fertil & Steril* 1997; 67:1172-74.
14. Cramer DW, Liberman RF, Hornstein MD, McShane P, Powers D, Li EY, Barbieri RL. Basal hormone levels in women who use acetaminophen for menstrual pain. *Fertil Steril*. 1998;70:371.
15. Cramer DW, Powers DR, Oskowitz SP, Liberman RF, Hornstein MD, McShane PM, Barbieri, RL. Gonadotropin-releasing hormone agonist use in assisted reproduction cycles: the influence of long and short regimens on pregnancy rates. *Fert Steril* 72 (1) :83-9, 1999.
16. Cramer DW, Liberman RF, Powers RD, Hornstein MD, McShane PM, Barbieri, RL. Recent trends in assisted reproductive techniques and outcomes. *Obstet Gynecol* . 95(1) :61-6, 2000.
17. Cramer DW, Hornstein MD, McShane PM, Powers RD, Lescault PJ, Vitonis AF. Human progesterone receptor polymorphisms and implantation failure during in vitro fertilization. *Amer Journal Obstet Gynecol*. 189: 1-8, 2003
18. Cramer DW, Sluss PM, Powers RD, McShane P, Ginsburg ES, Hornstein MD, Vitonis, AF, Barbieri RL. Serum Prolactin and TSH in an In Vitro Fertilization Population: Is there a link between fertilization and thyroid function. *Journal of Assisted Reproduction and Genetics*: 20(6) :210-215, 2003.
19. Barbieri RL, Sluss PM, Powers RD, McShane PM, Vitonis A, Ginsburg E, Cramer DC. Association of body mass index, age and cigarette smoking with serum testosterone in cycling women undergoing in vitro fertilization. *Fert Steril*: 83-2, 2005
20. Morris SN, Hornstein MD, Missner SA, Cramer DW, McShane PM, Powers D. Effects of lifetime exercise on the outcome of in vitro fertilization. *Obstet Gynecol* : 108,(4):938-945, 2006.
21. Segal S, Glatstein I, McShane P, Hotamisligil S, Ezcurra D, Carson R. Premature luteinization and IVF outcome in GnRH-antagonist cycles in women with PCOS. *Fertil Steril*: 91(5): 1755-1759, 2009.

**Patricia M. McShane, M.D.****Reviews:**

1. McShane PM. Immunologic aspects of male infertility. *Semin Urol.* 1984;2:107.
2. McShane PM, Schiff I. IVF and embryo transfer -- what we've learned. *Contemporary Ob/Gyn* 1986;28:125.
3. Hill JA, McShane PM. Immunologic aspects of female infertility. *The Female Patient* 1987;12:89-96.
4. McShane PM. In vitro fertilization, GIFT and related technologies -- Hope in a test tube. *Women and Health* 1987;13:31.
5. McShane PM, Thornton K, Ziemer C. Do you think that Domestic Violence is Confined to Inner City Emergency Rooms? Think Again! *Sexuality, Reproduction & Menopause.* 2004;2:3.

**Book Chapters:**

1. McShane PM. Controlled ovarian hyperstimulation for in vitro fertilization, R.L. Barbieri, I. Schiff (eds): *Reproductive Endocrine Therapeutics*. New York: Alan R. Liss, 1988, pp. 65-82.
2. McShane PM, Yeh J. The oviduct & tubal pregnancy, K.J. Ryan, R. Berkowitz, R.L. Barbieri (eds): *Kistner's Gynecology*, Chicago, London, Boca Raton, Littleton: 1990 Yearbook Medical Publishers, Inc. pp. 225-55.
3. McShane PM. Oocyte donation service at IVF America-Boston, C.B. Cohn (ed): *New Ways of Making Babies*, Bloomington: Indiana University Press, pub. 1996, pp. 29-34.
4. McShane PM - "Infertility Diagnosis & Assisted Reproductive Options: A Primer" in *Infertility: Psychological Issues & Counseling Strategies*, Ed. Sandra R. Leiblum. New York: John Wiley & Sons, 1997; pp. 20-40.
5. McShane PM. "Controlled Ovarian Hyperstimulation for Assisted Reproductive Technologies" : *New Horizons in Reproductive Medicine*. Coutifaris C and Mastroianni L (eds). Lancs LA6 2LA, UK, Parthenon Publishing, 1997; ISBN 1-85070-793-6.

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**Book Reviews:**

1. McShane PM. Implantation of Human Embryo. Edwards RG, Purdy J, Steptoe PC, eds. *Teratology*, 1986;34:226.

**Abstracts:**

1. McShane PM, Schiff I, Trentham DE. Cellular immunity to sperm in infertile women. Presented at the Annual Meeting of the Third International Congress of Andrology, Boston, Massachusetts, 1985.
2. Barbieri RL, McShane PM, Ryan KJ. Nicotine, cotinine and anabasine inhibit aromatase in human granulosa luteal cells in vitro. Presented at the 68th Annual Meeting of The Endocrine Society, Anaheim, California, 1986.
3. Kiessling A, Loutradis D, Jackson K, Monastersky G, McShane P. Fertilization in trypsin treated oocytes. Presented at the 5th World Congress of In Vitro Fertilization, Norfolk, Virginia, 1987.
4. Bize I, Driscoll D, Jackson K, McShane P. pH changes during oocyte retrieval and buffering capacity of human follicular fluid. Presented at the 5th World Congress of In Vitro Fertilization, Norfolk, Virginia, 1987.
5. Hornstein MD, Barbieri RL, McShane PM. The effects of previous ovarian surgery on the response to ovulation induction in an in vitro fertilization program. Presented at the 43rd Annual Meeting of the American Fertility Society, Reno, Nevada, 1987.
6. Hornstein MD, McShane PM. The effects of baseline ovarian cysts on the clinical response to ovulation induction in an in vitro fertilization program. Presented at the 44th Annual Meeting of the American Fertility Society, Atlanta, Georgia, 1988.
7. Litch S, Ferland K, Carson R, McShane PM. Predictive IVF outcome based on swim-up final results for male factor and non-male factor patients. Presented at the 47th Annual Meeting of the American Fertility Society, Orlando, Florida, 1991.
8. Clair J, Weiss R, Martin P, McShane PM. Relationship between human chorionic gonadotropin (HCG) and pregnancy outcome resulting from in vitro fertilization (IVF) or gamete intrafallopian transfer (GIFT). Presented at the 5th International IVF Coordinator's Meeting, Newport Beach, California, 1992.
9. McShane PM, Danforth A, Carson R. Oocyte donation - an efficient therapy for perimenopausal infertility. Presented at the District ACOG Meeting, New Rhode Island, 1995.
10. Trounson A, Anderiesz C, Carson R, Jones, G, McShane P, Lolatgis N, Wood,C. Oocyte maturation and growth of human embryos to blastocysts in vitro. Presented at 2nd International Symposium on Preimplantation Genetics, Chicago, Illinois, 1997.
11. Singer N, Carson R, McShane P, Wood D. Greater accessibility to preimplantation genetic diagnosis. Presented at the National Society of Genetic Counselors 16th Annual Education Conference, 1997.

**Patricia M. McShane, M.D.**

12. Carson RS, Burgess CM, Glatstein IZ, Singer N, Cunningham DL, McShane PM, Wood DS. Preimplantation Genetic Diagnosis and Cryopreservation of Embryos. Presented at the 53rd ASRM Annual Meeting, Cincinnati, Ohio, 1997.
13. Burgess C, Cunningham D, Ferland K, Matthews H, McShane P, Oates R, Carson R. Embryo Development After Intracytoplasmic Injection of Cryopreserved Testicular Sperm. Presented at the 53rd ASRM Annual Meeting, Cincinnati, Ohio, 1997.
14. Carson R, Pang S, McShane P, Glatstein I, Fischer R, Tulchinsky D. Reduced ovarian response to gonadotropins is associated with extended use of oral contraceptive steroids. Presented at the 56<sup>th</sup> ASRM Annual Meeting, San Diego, CA, 2000.
15. Keye WR, Surrey MW, VanVoorhis, BJ, Kenigsberg DJ, Check JH, McShane PM, Eisermann J, Scheiber MD, Westphal LM, Marshall DC. Evaluation of Mixed Protocols with Bravelle (hFSH) and Repronex (hMG) to Assess Clinical Efficacy (EMBRACE II) in Patients (34-40 Years) Undergoing In-Vitro Fertilization. Pacific Coast Fertility Society, 2003.
16. Carson R, McShane P, Pang S, Glatstein I. Oocyte recovery and maturity following ovulatory doses of ovidrel. Presented at the 59<sup>th</sup> ASRM Annual Meeting, San Antonio, TX 2003.
17. Hotamisligil S, Carson R, Glatstein I, Pang S, McShane P. Serum hCG levels 12 days after embryo transfer is predictive of pregnancy outcome. Presented at the 59<sup>th</sup> ASRM Annual Meeting, San Antonio, TX 2003.
18. Hotamisligil S, Carson R, Glatstein I, Pang S, McShane P. IVF in women over 42 years old: Is using autologous oocytes a reasonable option? Presented at the 59<sup>th</sup> ASRM Annual Meeting, San Antonio, TX 2003.
19. Segal S, Glatstein I, McShane P, Hotamisligil S, Ezcurra D, Carson, R. Premature luteinization in GnRH – Antagonist cycles in patients with Polycystic Ovarian Syndrome and IVF outcome. ASRM Meeting, Philadelphia, PA 2004.
20. Segal S, Glatstein I, McShane P, Hotamisligil S, Ezcurra D, Carson R. IVF outcome following controlled ovarian hyperstimulation with gonadotropin and GnRH-antagonist in patients with different infertility etiologies. ASRM Meeting, Montreal, Canada 2005.
21. McShane P, Dwan P, Carson R. Product enhancement of follitropin beta: Is the aqueous formulation clinically equivalent to the original lyophilized formulation? ASRM Meeting, Montreal, Canada 2005.
22. McShane P, Ezcurra D, Carson R. Adding morphologically inferior embryos to one or more superior embryos in ART patients: Are we improving pregnancy outcome? ASRM Meeting, Montreal, Canada 2005.
23. Segal S, Glatstein I, Lyman C, McShane, P, Ezcurra D, Mendel A. Outcome in women < 35 years of age undergoing consecutive cycles of in vitro fertilization (IVF) using the gonadotropin-releasing hormone antagonist protocol. ASRM Meeting, New Orleans, LA 2006.