

CURRICULUM VITAE

NAME: Karen Elizabeth. Elkind-Hirsch

CITIZENSHIP: U.S.A.

UNDERGRADUATE EDUCATION: Skidmore College
B.A. (*with honors*) in Biology and Psychology, 1974

GRADUATE EDUCATION: Tulane University
M. Sc. in Neuroscience, 1977
Ph.D. (*with honors*) in Neuroscience, 1980

POSTGRADUATE TRAINING Harvard Medical School
Andrew Mellon Foundation Postdoctoral
Fellowship in Reproductive Endocrinology, 1980-
1983

PROFESSIONAL EXPERIENCE

September 2000 – present Scientific Director of Research, Woman’s
Metabolic Health Clinic and Woman’s Health
Research Department, Baton Rouge, LA

December 2006-December 2008 Director of Research (consultant), Metabolic Center
of Louisiana Research Foundation, Baton Rouge,
LA

June 2002 – April 2007 Director of Clinical Research (consultant),
Reproductive Medical Associates of New Jersey,
Morristown, NJ

April 1996 – August 2000 Director of Research and Development, Center for
Reproduction at Gramercy, Department of
Obstetrics and Gynecology, MacGregor Medical
Association, Houston, TX

May 1993 - February 1996 Clinical Director of Laboratory Medicine,
Obstetrical and Gynecological Associates, P.A.,
Houston, TX

June 1988 - May 1993 Scientific Director and Manager, Baylor
Medicaland Methodist Hospital Endocrine
Laboratories, General Clinical Research Center
(GCRC) Laboratory, and Diabetes and Endocrine
Research (DERC) Core Laboratory, Houston, TX

June 1986 - June 1988	Director, Pediatric Endocrinology Laboratory, Department of Pediatrics, Baylor College of Medicine, Houston, TX
July 1984 - June 1986	Assistant Professor, Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX
August 1983 - June 1984	Instructor, Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX
ACADEMIC APPOINTMENTS	
October 2008-present	Adjunct Professor, Louisiana State University School of Human Ecology, Baton Rouge, LA
December 2001-June 2009	Adjunct Associate Professor, Pennington Biomedical Research Center, Louisiana State University, Baton Rouge, LA
July 1991 – September 2000	Research Associate Professor, Departments of Obstetrics and Gynecology and Medicine, Baylor College of Medicine, Houston, TX
July 1988 - June 1991	Assistant Professor, Departments of Medicine and Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX
July 1984 - June 1988	Assistant Professor, Departments of Obstetrics and Gynecology and Pediatrics, Baylor College of Medicine, Houston, TX
August 1983 - June 1984	Instructor, Department of Obstetrics and Gynecology, Baylor College of Medicine, Houston, TX
May 1980 - July 1983	Mellon Postdoctoral Fellow in Reproductive Biology with Kenneth J. Ryan, MD., Chairman, Department of Obstetrics and Gynecology, Harvard Medical School, Boston, MA
September 1978 - May 1980	Research Assistant with S. E. Leeman, Ph.D., Department of Physiology, Harvard Medical School, Boston, MA

June 1977 - August 1978

Research Assistant - The Endocrine and Polypeptide Laboratory, Department of Medicine, Tulane Medical School, New Orleans, LA

June 1975 - June 1978

National Science Foundation Predoctoral Fellow with Drs. A. A. Gerall, Ph.D. and J. King, Ph.D., Departments of Anatomy and Psychology, Tulane University, New Orleans, LA

August 1974 - July 1975

Teaching Assistant, Department of Psychology, Tulane University, New Orleans, LA

GRANT AWARDS

Woman's Hospital

Principal Investigator, Karen Elkind-Hirsch, Irene W. and C. B. Pennington Family Foundation Comprehensive postpartum screening strategies for women with prior gestational diabetes (**COPSS - GDM**): Now is the time for a paradigm shift in clinical practice; renewal 2010

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Principal Investigator, Karen Elkind-Hirsch, Blue Cross Blue Shield Impact grant Comprehensive postpartum screening strategies for women with prior gestational diabetes (**COPSS - GDM**): Extension to Earl K Long Hospital; Initiation October 2009

Principal Investigator, Karen Elkind-Hirsch, Irene W. and C. B. Pennington Family Foundation Comprehensive postpartum screening strategies for women with prior gestational diabetes (**COPSS - GDM**): Now is the time for a paradigm shift in clinical practice; Initiation February 2009

Co-Investigator, Karen Elkind-Hirsch, Tulane University Research Enhancement Fund Award Periodontal Disease as a Risk Factor for the Development of Diabetes in Woman with a History of Gestational Diabetes, Initiation July 2009

Principal Investigator, Karen Elkind-Hirsch, Amylin Pharmaceuticals/Eli Lilly Company Comparison of the effects of monotherapy with exenatide or metformin to combined exenatide and metformin therapy on menstrual cyclicity in overweight women with polycystic ovary syndrome, Initiation, July 2006-August 2007

Co-Investigator, Karen Elkind-Hirsch, National Institute of Dental and Craniofacial Research Relationship between Periodontal Disease and Gestational Diabetes Mellitus, Initiation July 2007-June 2009

Co-Investigator, Karen Elkind-Hirsch, National Institute of Mental Health Effects of Hurricane Katrina on Postpartum Mental Health, Initiation March 2006-December 2008

Co-Investigator, Karen Elkind-Hirsch, National Institute of Child Health and Development
The Effects Of Hurricane Katrina On Pregnancy Outcomes, February 2006-
November 2008

Principal Investigator, Karen Elkind-Hirsch, Baton Rouge Area Foundation Grant
Clinically Useful Methods For Assessment Of Insulin Sensitivity And Beta Cell
Function In Women At High Risk For Gestational Diabetes: Does Race Matter?
August 2005-December 2009

Principal Investigator, Karen Elkind-Hirsch, Organon Inc.
Evaluation of the metabolic effects of a combined contraceptive vaginal ring vs. a
monophasic low-dose oral contraceptive pill in reproductive age women: a
randomized, controlled trial. January 2004-February 2007

Co-Investigator, Karen Elkind-Hirsch, Columbia Research Laboratories, Inc.
A Phase III, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study
to Assess the Efficacy, Safety, and Tolerability of Prochieve™ 8% Progesterone
Gel in Preventing PreTerm Delivery in Pregnant Women at Increased-Risk for
PreTerm Delivery. February 2004- March 2007

Principal Investigator, Karen Elkind-Hirsch, Columbia Research Laboratories, Inc.
Open-Label Study of the Efficacy, Safety and Tolerability of Clomiphene Citrate
Therapy Combined with Oral Estradiol and Vaginal Progesterone (Hormone
Supplementation) on Conception Rates in Timed Intercourse Cycles. January
2003-June, 2004.

Principal Investigator, Karen Elkind-Hirsch, Organon Inc.
Concurrent Antagon and Follistim therapy vs. Follistim therapy for Ovulation
Induction in Women with Polycystic Ovary Syndrome with and without insulin
resistance. October 2002-December 2003

Co-Principal Investigator, Karen Elkind-Hirsch, Pfizer, Inc.
Oral Contraceptive Treatment of Polycystic Ovarian Syndrome:
Effect on Adolescent Female Health and Well-Being, Initiation February 2002

Principal Investigator, Karen Elkind-Hirsch, Pfizer, Inc.
A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter,
12-Week Study Assessing the Effects of femhrt® on Vasomotor Symptoms in
Postmenopausal Women of Minority Ethnic Groups (**H**ormone **R**eplacement
Therapy in **F**emale **E**thnic **M**inorities – **HRTFEM**) “ January, 2002-August 2002

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals
A Randomized open-label, parallel group multi-center, efficacy study comparing
Purified FSH SC and Follistim® SC in Female patients undergoing *in-vitro*
fertilization. Protocol #FPI FSH 2001-01. September 2001-February 2002

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Serono Laboratories

A phase 3, prospective, randomized, assessor blind, multicenter, multinational, comparative trial of a new formulation of r-hFSH versus Fertinex® and Gonal-F® in oligoanovulatory infertile women undergoing ovulation induction. August 2001-March 2002

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Efficacy Study in Anovulatory or Oligo-Ovulatory Infertile Female Patients Comparing Purified Repronex S.C., Purified Repronex I.M., and Repronex SC, for Ovulation Induction. Protocol #FPI Rep 2000-01. April 2001- August 2001.

Principal Investigator, Karen Elkind-Hirsch, Pfizer, Inc..

Oral Contraceptive Treatment of Hirsutism: Effects on Women's Health and Well-Being. April 2001-July 2003

Principal Investigator, Karen Elkind-Hirsch, Organon Inc.

Optimal dosing with the GnRH antagonist Antagon followed by Concomitant Antagon and Follistim therapy for Ovulation Induction in Women with Polycystic Ovary Syndrome. January 2001-May 2001.

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

An Open-Label Multi-Center Efficacy Study of Purified FSH Given Subcutaneously to Female Patients participating in a Donor Egg IVF Program. Protocol #FPI FSH 99-05. November 2000-April 2001

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Efficacy Study Comparing Purified Repronex S.C., Purified Repronex I.M., and Repronex SC in Female Patients Undergoing In-Vitro Fertilization." Protocol #FPI Rep 2000-02. October 2000-April 2001

MacGregor Medical Association

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Efficacy Study in Anovulatory and Oligoovulatory Infertile Female Patients Comparing Purified FSH S.C., Purified FSH I.M., and Follistim SC. for Ovulation Induction Protocol." Protocol #FPI FSH 99-03. February, 2000-July 2000.

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Efficacy Study Comparing Purified FSH S.C., Purified FSH I.M., and Follistim SC in Female Patients Undergoing In-Vitro Fertilization." Protocol #FPI FSH 97-04. December 1999-July 2000.

Principal Investigator, Karen Elkind-Hirsch, Serono Laboratories

Patient satisfaction with subcutaneous administration of recombinant hCG compared to intramuscular urinary hCG for induction of oocyte maturation in an in vitro fertilization program
August, 1999-June 2000.

Principal Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

Comparison of subcutaneous and intramuscular human chorionic gonadotropin administration for induction of oocyte maturation in an in vitro fertilization program using hMG and ICSI. April 1999- February 2000.

Principal Investigator, Karen Elkind-Hirsch, Columbia Research Laboratories, Inc.

Comparison of Clomiphene Citrate Therapy (50 mg and 100 mg) with and without hormone supplementation on endometrial biopsy morphology and conception rates. October 1998-March 2000.

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Pharmacokinetic/Pharmacodynamic Study in Anovulatory and Oligoovulatory Infertile Female Patients Comparing Repronex S.C., Repronex I.M. and Pergonal I.M. for Ovulation Induction Protocol #FPI Rep 97-01. March 1998- June 1999

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Serono Laboratories

A Phase III, Open-Label, Multicenter Study to Evaluate the Safety and Efficacy of Recombinant Human Follicle Stimulating Hormone (Gonadal F) Administered by the Subcutaneous Route during Pituitary Desensitization, for Multiple Follicular Development in 100 Women Undergoing In Vitro Fertilization and Embryo Transfer. Protocol 9696A. January 1998-May 1999

Study Coordinator/Co-Investigator, Karen Elkind-Hirsch, Ferring Pharmaceuticals

A Randomized Open-Label Parallel Group, Multi-Center, Efficacy Study Comparing Repronex S.C., Repronex I.M. and Pergonal I.M. in Female Patients Undergoing In-Vitro Fertilization.” Protocol #FPI Rep 97-02. November 1997-June 1998

Principal Investigator, Wyeth Ayerst-Columbia Research Laboratories, Inc.

Use of Crinone in Women Undergoing ART Procedures, May 1997-October 1998

Baylor College of Medicine-Methodist Hospital

Principal Investigator, Organon Educational Grant,

Continuous vs. Cyclic OC Therapy in the Treatment of Hirsute Women with Ovarian Hyperandrogenism, 1995-1997

Principal Investigator, TAP Pharmaceuticals Educational Grant,

Efficacy of Lupron in the Treatment of Hirsutism, 1993 - 1995.

Principal Investigator, TAP Pharmaceuticals Educational Grant

Topographic Brain Mapping in Women with Polycystic Ovarian Disease: Investigation of the Relationship between Sensory Evoked Potentials and Reproductive Dysfunction, 1992 - 1993.

Principal Investigator, TAP Pharmaceuticals Educational Grant,
Insulin Resistance in PCOD and Precocious Puberty, 1990-1992.

Fellowship Director, American College of Obstetrics/Gynecology/ORTHO Pharmaceuticals Grant,
Hyperandrogenism and Insulin Resistance, 1990 - 1992.

Principal Investigator, American Diabetes Association Professional Grant,
Evaluation of immunoreactive GnRH and hCG in term placentas from normal
and IDDM mothers, 1986 - 1988.

Principal Investigator, Houston Women's Fund Grants, 1989-91, 1984-86\

Principal Investigator, Biomedical Research Support Grant, 1986 - 1987.

ADDITIONAL PROFESSIONAL ACTIVITIES

CERTIFICATION

American Board of Bioanalysis, Board
Certification in Laboratory Medicine -High
Complexity Lab Director (HCLD), 1995

College of American Pathology Lab Accreditation
Program Inspector, 1995

Texas Department of Health Registry, Medical
Laboratory Practitioner (Director), 1991

HONORARY SOCIETIES

Sigma XI National Research Honor Society of
North American
Phi Beta Kappa (New York & Houston Chapters)

COMMITTEES/OFFICES

Chairman, ASRM Reproductive Biology
Professional Group (RBPG), 2006-2007

Practice Committee, The American Society for
Reproductive Medicine (ASRM) 1998-2003

Nominating Committee Chair, ASRM Reproductive
Biology Professional Group (RBPG), 2000-2002

Editorial Board, Journal of Drugs in Endocrinology, 2001- present
Editorial Board, Journal Clinical Endocrinology and
Metabolism, 1995-98

Schraft's Specialty Pharmacy Nurses Advisory Board, 2007
Nurses Advisory Board, Organon, 2006-current
Medical Advisory Board, Columbia Laboratories, 2003-2005
Medical Advisory Board, Serono Laboratories, 1998
Medical Advisory Board, Fering Laboratories, 1997-2003
Member-at-Large, Women's Council, ASRM 1994-97

PROFESSIONAL MEMBERSHIPS

European Society of Human Reproduction and Embryology
Society for Gynecological Investigation
The Endocrine Society
The American Society for Reproductive Medicine
Society for Assisted Reproduction
American Association of Bioanalysts

PUBLICATIONS

Elkind-Hirsch KE, Ogden B, Darensbourg C, Schelin B Clinical assessment of insulin action during late pregnancy in women at risk for gestational diabetes: Association of maternal glycemia with perinatal outcome. *Int J of Diabetes*, in press

Ehrlich M, Harville EW, Xiong X, Buekens P, Pridjian G, Elkind-Hirsch K. Loss of Resources and Hurricane Experience as Predictors of Post-Partum Depression Among Women in Southern Louisiana, *J of Woman's Health*, in press.

Harville EW, Xiong X, Buekens P, Pridjian G, Elkind-Hirsch K, Resilience after Hurricane Katrina among pregnant and postpartum women. *Women's Health issues*, 20;20-27,2010.

Xiong X, Elkind-Hirsch K, Vastardis S, Delarosa RL Pridjian G, Buekens P Periodontal disease and gestational diabetes mellitus: A case control study. *Journal of Periodontology*, 80:1742-49, 2009

Harville EW, Xiong X, Pridjian G, Elkind-Hirsch K, Buekens P, Postpartum mental health after Hurricane Katrina: A cohort study. *BMC Pregnancy and Childbirth*, 9:21-8, 2009

Moro C, Pasarica M, Elkind-Hirsch K, Redman LM. Aerobic exercise training improves atrial natriuretic peptide and catecholamine-mediated lipolysis in obese women with polycystic ovary syndrome. *J Clin Endocrin Metab*, 7 2579-2586,2009.

Bhushan R, Elkind-Hirsch KE, , Bhushan M, Butler WJ, Duncan K, Marrioneaux, O. Improved glycemic control and reduction of cardiometabolic risk factors in subjects with type 2 diabetes and metabolic syndrome treated with exenatide in a clinical practice setting. *Diabetes Technology & Therapeutics*, 11 (6) :353-359, 2009.

Bhushan R, Elkind-Hirsch KE, Bhushan M, Butler WJ, Duncan K, Marrioneaux, O. Exenatide use in the management of metabolic syndrome: A retrospective database study. *Endocrine Practice*, 2008; 14: 1-7.

Xiong X, Harville E, Mattison D, Elkind-Hirsch K, Pridjian G, Buekens P. Exposure to Hurricane Katrina, Post-Traumatic Stress Disorder and Birth Outcomes. *American Journal of the Medical Sciences*, 2008; 336:1-5.

Elkind-Hirsch KE, Marrioneaux, O, Bhushan M, Vernor D, Bhushan R Comparison of single and combined treatment with exenatide and metformin on menstrual cyclicality in overweight women with polycystic ovary syndrome, *J Clin Endo Metab*, 2008 ; 93(7):2670-8.

Frattarelli JL, Miller KA, Miller BT, Elkind-Hirsch KE, Scott Jr. RT. Male age negatively impacts embryo development and reproductive outcome in donor oocyte assisted reproductive technology cycles, *Fertility and Sterility*, 2008; 90(1):97-103

Scott Jr. RT, Elkind-Hirsch KE, Styne-Gross A, Miller KA, Frattarelli JL. The predictive value for in vitro fertility delivery rates is greatly impacted by the method used to select the threshold

between normal and elevated basal follicle-stimulating hormone. *Fertility and Sterility*, 2008; 89: 868-878.

Elkind-Hirsch K, Butler WJ, Bhushan M, Hirsch D, Bhushan R. Clinical experience with the addition of pramlintide in patients with insulin-requiring type 2 diabetes. *Diabetes Care*, 2008; 31(1):39-40.

Elkind-Hirsch K, Darensbourg C, Ogden B, Ogden L, Hindelang P. Contraceptive vaginal ring use for women has less adverse metabolic effects than an oral contraceptive. *Contraception*, 2007; 76: 348-356.

Elkind-Hirsch, K.E. Thiazolidinediones for the therapeutic management of polycystic ovary syndrome: impact on metabolic and reproductive abnormalities. *Treatments in Endocrinol.*, 2006; 5(3): 171-187.

Elkind-Hirsch, KE, Darensbourg, C, Creasy, G, Gipe D. Conception rates in clomiphene citrate cycles with and without hormone supplementation: A pilot study. *Current Medical Research and Opinion*, 2005, 21(7):1035-40

Styne-Gross, A; Elkind-Hirsch, KE, Scott, RT. Obesity does not impact implantation rates or pregnancy outcome in women attempting conception through oocyte donation, *Fertil Steril*, 2005 83(6):1629-34

Elkind-Hirsch K. Editorial. Cooling Off Hot Flashes- Uncoupling of the circadian pattern of core body temperature and hot flash frequency in breast cancer survivors *Menopause*, 11: 369-71, 2004.

DeZiegler D, Bulletti C, Elkind-Hirsch, KE. Optimizing the Clomiphene Cycle With Sequential Estradiol and Vaginal Progesterone Supplementation. *The Female Patient* 29: 49-56, 2004.

Styne-Gross, A; Elkind-Hirsch, KE, Scott, RT. Value of basal FSH: prognostic implications for pregnancy outcome. *Human Reproduction*, 19: 2426-7; author reply 2427-8, 2004.

Miller, KA, Elkind-Hirsch, KE, Levy, B, Graubert, M, Ross, S, Scott, RT. Pregnancy after cryopreservation of donor oocytes and preimplantation genetic diagnosis of the embryos in a patient with ovarian failure. . *Fertil Steril* 82: 211-214, 2004

Miller, KA, Elkind-Hirsch, KE, Benson, MR, Bergh, PA, Drews, MR, Scott, RT. A new follicle aspiration needle is equally effective and tolerated as the standard needle used for IVF. *Fertil Steril*, 81(1):191-193,2004.

Elkind-Hirsch KE, Webster, BW, Brown, CP, Vernon, MW. Concurrent ganirelix and follitropin beta therapy is an effective and safe regimen for ovulation induction in women with polycystic ovary syndrome (PCOS). *Fertil Steril*, 79(3): 603-607, 2003

Kaufmann, R, Gocial, B, Crain, JL, Webster, BW, Scott, RT, Miller, PB, Elkind-Hirsch, KE, Scobey, MJ. Bravelle, a new highly purified human-derived FSH is effective and well tolerated in females participating as oocyte donors for in vitro fertilization. *Today's Therapeutic Trends* 21(1):1-14, 2003.

Elkind-Hirsch KE Phillips KL, Bello, S., McNichol, M., deZiegler D. Sequential hormonal supplementation with vaginal estradiol [E₂] and progesterone [P] gel corrects clomiphene's effect on the endometrium in oligo-ovulatory women. *Human Reproduction*, 17 (2): 101-104, 2002.

Elkind-Hirsch, K., Bello, S., Esparcia, L., Phillips, K., Sheiko, A., McNichol, M., Berkowitz, A. Serum hCG levels are correlated with body mass index not route of administration in women undergoing IVF-ET using hMG and ICSI. *Fertil Steril*, 75 (4): 700-704, 2001

Elkind-Hirsch K. Effect of dietary phytoestrogens on hot flushes: can soy-based proteins substitute for traditional estrogen replacement therapy? Editorial. *Menopause*, 8 (3): 154-156, 2001.

Feigenbaum, S., Miller, P., Kaufmann, R., Elkind-Hirsch, K., Fein, S., Marshall, D. A new highly purified human-derived FSH, Bravelle, is as effective and well tolerated as recombinant follitropin beta in ovulation induction in infertile women with ovulatory dysfunction. *Today's Therapeutic Trends* 19(4): 297-313, 2001.

Elkind-Hirsch, K.E.; McWilliams, R.B. Pregnancy following treatment with the insulin-sensitizing agent troglitazone in an obese woman with the hyperandrogenic -insulin resistant-acanthosis nigricans (HAIR-AN) syndrome. *Fertil Steril*, 71 (5): 943-947, 1999.

Casson, P., Santoro, N., Elkind-Hirsch, K.E., Carson, S., Hornsby P.J., Abraham, G., Buster, J.E. Postmenopausal dehydroepiandrosterone (DHEA) administration increases free insulinlike growth factor-1 (IGF-1) and decreases high density lipoprotein (HDL): A six month trial. *Fertil Steril*, 70 (1): 107-110, 1998.

Casson, P., Elkind-Hirsch, K.E., Carson, S., Hornsby P.J., Buster, J.E., Snabes, M.C. Postmenopausal estrogen replacement suppresses circulating androgens. *Obstet Gynecol*, 90:995-998, 1997.

Elkind-Hirsch, K.E., Anania, C., M., Malinak, L.R. Oral contraceptive therapy in polycystic ovarian disease patients after chronic gonadotropin-releasing agonist administration: Predictors of continued ovarian suppression. *J Reprod Med*, 41:645-652, 1996.

Ruchhoft, EA., Elkind-Hirsch, K.E., Malinak, L.R.. Pituitary function is altered during the same cycle in women with polycystic ovary syndrome treated with continuous or cyclic oral contraceptives or a gonadotropin-releasing hormone agonist. *Fertil Steril*, 66:54-60, 1996.

Elkind-Hirsch, K.E., Anania, C., Mack, M., Malinak, L.R. Combination GnRH agonist and oral contraceptive therapy improves treatment of hirsute women with ovarian hyperandrogenism. *Fertil Steril*, 63 (5): 970-978, 1995.

Elkind-Hirsch, K.E., Wallace, E., Malinak, L.R., Jerger, J.F. Sex hormones regulate ABR latency. *Otolaryngology-Head & Neck Surgery*, 110:46-52,1994.

Elkind-Hirsch, K.E., Valdes, CT, Malinak, L.R. Insulin resistance improves in hyperandrogenic women treated with Lupron. *Fertil Steril*, 60(4):634-641, 1993.

Elkind-Hirsch, K.E., Sherman, L., Malinak, L.R. Cyclic hormone replacement alters insulin sensitivity in young women with premature ovarian failure. *J Clin Endocrinol Metabol*, 76:472-475, 1993.

Elkind-Hirsch, K.E., Goldzieher, J.W. Carbohydrate metabolism. In: *Pharmacology of the Contraceptive Steroids*. J.W. Goldzieher (ed.), Raven Press, Ltd., New York, 1993. pp. 345-356.

Elkind-Hirsch, K.E., Wallace, E., Stach, B.A., Jerger, J.F. Cyclic steroid replacement alters auditory brainstem responses in young women with premature ovarian failure. *Hear Res*, 64: 93-98, 1992.

Elkind-Hirsch, K.E., Stoner, W.R., Stach, B.A., Jerger, J.F. Estrogen influences auditory brainstem responses during the normal menstrual cycle. *Hear Res*, 60:143-148, 1992.

Elkind-Hirsch, K.E., Valdes, CT, McConnell, TG, Malinak, L.R. Androgen responses to acutely increased endogenous insulin levels in hyperandrogenic and normal cycling women. *Ob/Gyn Digest*, 1:25-27, 1992.

Elkind-Hirsch, K.E., Valdes, CT, Rogers, D.G. Does estradiol treatment normalize the hypothalamic-pituitary-adrenal axis in streptozotocin-induced ovariectomized diabetic female rats? *Horm Metabol Res*, 23:481-485, 1991.

Young, R.L., Goldzieher, J.W., Elkind-Hirsch, K.E., Hickox, P.G., Chakraborty, P.K. A short-term comparison of the effects of clomiphene citrate and conjugated equine estrogen in menopausal/castrate women. *Int J Fertil*, 36:167-171, 1991.

Elkind-Hirsch, K.E., Valdes, C.T., McConnell, T.G., Malinak, L.R. Androgen responses to acutely increased endogenous insulin levels in hyperandrogenic and normal cycling women. *Fertil Steril*, 55:486-491, 1991.

Valdes, C.T., Elkind-Hirsch, K.E. IVGTT-derived insulin sensitivity changes during the menstrual cycle. *J Clin Endocrinol Metabol*, 72:642-646, 1991.

Valdes, C.T., Elkind-Hirsch, K.E., Rogers, D.G., Adelman, J.P. The hypothalamic-pituitary axis of streptozotocin-induced diabetic female rats is not normalized by estradiol replacement. *Endocrinology*, 128:433-440, 1991.

Sherman, L.D., Rogers, D.G., Gabbay, K.H., Elkind-Hirsch, K.E. Maturation of the hypothalamic-pituitary-ovarian axis during puberty is dependent on recent glycemic control. *Adolesc Pediatr Gynecol*, 4:87-92, 1991.

Danforth, D.R., Elkind-Hirsch, K.E., Hodgen, G.D. In vivo and in vitro modulation of GnRH metabolism by estradiol and progesterone. *Endocrinology*, 127:319-324, 1990.

Valdes, C.T., Elkind-Hirsch, K.E., Rogers, D.G. Diabetes-induced alterations of reproductive and adrenal function in the female rat. *Neuroendocrinol*, 51:406-412, 1990.

Rogers, D.G., Valdes, C.T., Elkind-Hirsch, K.E. The effect of ovarian function on insulin-like growth factor I plasma levels and hepatic IGF-I mRNA levels in diabetic rats treated with insulin. *Diabetes Research and Clinical Practice*, 8:235-242, 1990.

Benagiano, G., Morini, A., Aleandri, V., Piccinno, F., Primiero, F.M., Abbondante, G., Elkind-Hirsch, K.E. Sequential GnRH superagonist and medroxyprogesterone acetate treatment of uterine leiomyomata. *Int J Gynecol Obstet*, 33:333-343, 1990.

Schmutzler, R., Elkind-Hirsch, K.E., Hahn D., McGuire, J.L., Simon, J.A., Danforth, D.R., Hodgen, G.D. Gonadotropin releasing hormone (GnRH) infusion interval: importance in pharmacodynamics. *J Medical Primatology*, 18:(5):373-382, 1989.

Elkind-Hirsch, K.E., Reynolds, M.V., Goldzieher, J.W. Comparison of immunoreactive GnRH and hCG in term placentas from normal, insulin-dependent and gestational diabetic women. *Am J Obstet Gynecol*, 160:71-78, 1989.

Barad, D.H., Ryan, K.J., Elkind-Hirsch, K.E., Makris, A. Substance P in the normal human ovary. *Am J Obstet Gynecol*, 159:42-246, 1988.

Schmutzler, R., VanVem, J.F.M., Elkind-Hirsch, K.E., Hahn, J.D., McGuire, J.L., Danforth, D.R., Hodgen, G.D. Subcutaneous implantable device for chronic intravenous pulsatile GnRH treatment. *J Medical Primatology*, 17:281-285, 1988.

Lyles, R., Elkind-Hirsch, K.E., Goldzieher, J.W., Besch, P.K. Plasma gonadotropin releasing hormone profiles after intravenous and subcutaneous bolus injection in thin and obese subjects. *Obstet Gynecol*, 71:44-46, 1988.

Goldzieher, J.E., Elkind-Hirsch, K.E. Polycystic ovarian disease. In: *Progress in Infertility, Third Edition*. S.J. Behrman, R.W. Kistner, G.W. Patton, Jr. (Eds.), Little, Brown and Company, Boston, MA, 1988, pp.363-404.

Young, R.L., Goldzieher, J.W., Elkind-Hirsch, K.E. The endocrine effects of spironolactone used as an anti-androgen. *Fertil Steril*, 48:223-228, 1987.

Elkind-Hirsch, K.E., Platia, M.P., Schiff, I. Elevation of plasma immunoreactive luteinizing hormone-releasing hormone (IR-LHRH) in hyperprolactinemic-amenorrheic women on bromocriptine therapy. *J Reprod Med*, 32:5-9, 1987.

Claman, P., Elkind-Hirsch, K.E., Oskowitz, S.P., Seibel, M.M. Urticaria associated with antigonadotropin releasing hormone antibody in a female Kallman's syndrome patient being

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