

## **Eric S. Knochenhauer, M.D.**

**Academic Address:** Staten Island University Hospital  
Department of Obstetrics and Gynecology  
Director, Division of Reproductive Endocrinology and Infertility  
475 Seaview Ave  
Staten Island, NY 10305  
(718) 226-9558

**Office Address:** Island Reproductive Services, P.C.  
1110 South Avenue Suite 305  
Staten Island, NY 10314  
(718) 761-6000

Reproductive Center of Central New Jersey  
3000 Hadley Rd, Suite 2C  
South Plainfield, NJ 07080  
(908) 412-9909

### **EDUCATION:**

- 1994 – 1996 University of Alabama at Birmingham, Birmingham, Alabama  
Fellowship, Reproductive Biology and Endocrinology
- 1990 - 1994 Albany Medical Center Hospital Albany, New York  
Residency, Department of Obstetrics and Gynecology
- 1986 - 1990 Albany Medical College, Albany, New York  
Medical School - M.D.
- 1982 - 1986 Johns Hopkins University, Baltimore, Maryland  
Bachelor of Science in Biomedical Engineering

### **BOARD CERTIFICATION:**

American Board of Obstetrics and Gynecology, Reproductive Endocrinology and Infertility  
Diplomate, 2000  
American Board of Obstetrics and Gynecology, Diplomate, 1998  
National Board of Medical Examiners, Diplomate, 1991  
American Registry of Diagnostic Medical Sonographers, Diplomate 1996-2002

### **LICENSURE:**

New York State Medical License #187839-1, 1991 – present  
New Jersey State Medical License # 25MA07953500

### **PROFESSIONAL APPOINTMENTS:**

- 2003 – 2009 Director Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Staten Island University Hospital
- 1996 – 2001 Assistant Professor - University of Alabama at Birmingham, Department of Obstetrics and Gynecology
- 1994 – 1996 Instructor - University of Alabama at Birmingham Department of Obstetrics and Gynecology
- 1993 – 1994 Chief Administrative Resident, Department of Obstetrics and Gynecology, Albany Medical Center
- 1991 – 1994 Assistant Instructor, Albany Medical College, Department of Obstetrics and Gynecology

### **ORGANIZATIONS:**

- Society of Reproductive Endocrinologists
- American Society of Reproductive Medicine
- Fellow, American College of Obstetrics and Gynecology
- The Endocrine Society
- American Medical Association
- New York Medical Society

### **PROFESSIONAL ACTIVITIES:**

- Institutional Review Board of Staten Island University Hospital 2001- present
- Patient Education Committee, American Society for Reproductive Medicine, 1998-2001
- Univ. of Alabama at Birmingham, Ob/Gyn Resident Education Committee, 1996-2001
- Albany Medical Center, Ob/Gyn Resident Education Committee, 1990 - 1994
- District II Section IX Junior Fellow Vice-Chairman, Chairman 1992-1993

### **AWARDS:**

- Clinical Research Nutrition Unit Award, 2000
- UAB Clinical Research Training Program Award (NIH) 1999
- ACOG/Parke-Davis Research Award 1998
- ASRM/Organon Research Award 1998
- Resident Research Award 1993
- Meade Johnson Junior Fellow Award 1993
- Ortho Pharmaceutical CREOG Award 1991

### **INVITATIONAL LECTURES:**

- SIUH Grand Rounds, Staten Island - “Adolescent PCOS”, 2007
- ASRM Lecture, New Orleans - “Diagnosis of PCOS in Adolescents”, 2006
- SI Community Series, Staten Island - “Infertility: The Good, The Bad, and The Ugly”, 2004
- SIUH Satellite Center, Staten Island - “Infertility Evaluation”, 2001

Progress in Obstetrics and Gynecology (UAB), Birmingham, AL - "Benefits of Androgen Replacement", 2001  
Alabama ACOG Annual Clinical Meeting- "Ovarian Function" 2000  
Progress in Obstetrics and Gynecology (UAB), Birmingham, AL - "Endometriosis and Infertility", 2000  
Progress in Obstetrics and Gynecology (UAB), Birmingham, AL - "Infertility and the Older Women", "Update in ART", 1999  
ACOG Postgraduate Course- Advanced Operative Laparoscopy and Hysteroscopy - Birmingham, Alabama 1998 - Instructor  
ACOG 44<sup>th</sup> Annual Meeting District VII, Birmingham, AL - "Adhesion Prevention - Current Update", 1998  
ACOG Postgraduate Course- Advanced Operative Laparoscopy and Hysteroscopy - Birmingham, Alabama 1997 - Instructor  
Children's Hospital, Birmingham, Alabama - "Fertility and Turners Syndrome", 1997  
UAB Medical Endocrinology Departmental Lectures-"Genetic Inheritance of Hyperandrogenism" 1996  
Shelby County Medical Center Grand Rounds- "Menopausal Management: The Difficult Patient" 1996  
Alabama ACOG Annual Clinical Meeting- "Donor Gametes" 1996  
UAB OB/GYN Departmental Lectures - "Secondary Amenorrhea" 1997  
UAB OB/GYN Departmental Lectures - "Endocrinology of Pregnancy" 1995  
UAB OB/GYN Departmental Grand Rounds - "Ovarian Superovulation and Cancer Risk" 1995  
Progress in Obstetrics and Gynecology (UAB), Birmingham, AL - "Choosing the Best Oral Contraceptive Regiment" 1996  
Progress in Obstetrics and Gynecology (UAB), Birmingham, AL - "Evaluation and Treatment of Abnormal Vaginal Bleeding" 1995

## **PUBLICATIONS:**

**Knochenhauer ES**, Azziz R, Current Concepts in the Diagnosis and Treatment of the Hirsute Patient. Current Opinions in Obstetrics & Gynecology. 1995, 7(5):344-350.

**Knochenhauer ES**. A Case Discussion of Hyperandrogenism. Collected Letters, International Correspondence Society of Obstetrics & Gynecologists. 1995, 37(8) 5-8.

**Knochenhauer ES**, Cortet-Rudelli C, Cunningham RD, Conway-Myers BA, Dewailly D, Azziz R. Carriers of 21-Hydroxylase Deficiency Are Not At Increased Risk For Hyperandrogenism. 1997 JCEM, 82(2):479-485.

Conway-Myers BA, Kretzer PA, **Knochenhauer ES**, Steinkampf MP. Effects of Gamete/Embryo Coculture Using Homologous Tubal Cells on Human In Vitro Fertilization and Preimplantation Embryo Development. Fertil Steril, 1998 (submitted).

**Knochenhauer ES**, Boots LR, Potter HD, Azziz R. Differential Binding of Estradiol (E<sub>2</sub>) and Testosterone (T) to Sex Hormone-Binding Globulin (SHBG) in Relation to Circulating E<sub>2</sub> Levels. 1998, JRM, 43(8):665-670.

**Knochenhauer ES**, Azziz R. Evaluation of Infertility: A Cost Effective Approach. References en Gynecologie Obstetrique, 1998, 3(5):315-20.

**Knochenhauer ES**, Boots LR, Key TJ, Azziz R. Prevalence of Hirsutism Among Unselected Black and Caucasian Women in the Southeastern United States: A Prospective Study. JCEM, 1998, 83(9):3078-3082.

Azziz R, Waggoner WT, Ochoa T, **Knochenhauer ES**, Boots LR, Idiopathic Hirsutism: An Uncommon Cause of Hirsutism in Alabama. FertilSteril, 1998, 70(2):274-278.

Moran C, **Knochenhauer ES**, Azziz R. Non-classic Adrenal Hyperplasia in hyperandrogenism: A Reappraisal. J Endocrinol Invest, 1998, 21:707-720.

Conway-Myers BA, **Knochenhauer ES**, Steinkampf MP. Co-culture in Assisted Reproductive Technology. Assisted Reproduction, 1999, 9(1):23-30.

Azziz R, Hincapie LA, Knochenhauer ES, Dewailly D, Fox L, Boots LR. Screening for 21-hydroxylase deficient non-classic adrenal hyperplasia among hyperandrogenic women: A prospective study. Fertil Steril, 1999, 72:915-25

Huerta R, Dewailly D, Decanter C, **Knochenhauer ES**, Boots LR, Azziz R. Serum 11 $\beta$ -hydroxyandrostenedione and  $\Delta^5$ -androstenediol as markers of adrenal androgen production: Studies in 21-hydroxylase deficient non-classic adrenal hyperplasia. Fertil Steril 1999, 72:996-1000.

Moran C, **Knochenhauer ES**, Boots LR, Azziz R. Adrenal Androgen Excess in Hyperandrogenism: Relationship to Age and Body Mass. Fertil Steril, 1999, 71:671-4.

Speiser PW, **Knochenhauer ES**, Dewailly D, Fruzzetti F, Marcondes JAM, Azziz R. A multicenter study of women with non-classical congenital adrenal hyperplasia: relationship between genotype and phenotype. Mol Genet Metab, 2000, 71:527-534.

**Knochenhauer ES**, Black V, Hines G, Conway-Myers BA, Azziz R. Examination of the chin or lower abdomen only for the prediction of hirsutism. Fertil Steril , 2000, 74:980-3

Moran C, Azziz R, Carmina E, Dewailly D, Fruzzetti F, Ibanez L, **Knochenhauer ES**, Marcondes JAM, Mendonca BB, Pignatelli D, Pugeat M, Rohmer V, Speiser PW, Witchel SF. 21-hydroxylase deficient non-classic adrenal hyperplasia is a progressive disorder: A multicenter study. Am J Obstet Gynecol, 2000, 183:1468,1474

Huerta R, Dewailly D, Decanter C, **Knochenhauer ES**, Boots LR, Azziz R. Adrenocortical hyper-responsivity to ATCH: A mechanism favoring the normal production of cortisol in 21-hydroxylase deficient non-classic adrenal hyperplasia. Fertil Steril, 2000, 74:329-34.

Nichols J, **Knochenhauer E**, Fein SH, Nardi RV, Marshal D, and the Repronex SC Ovulation Induction Study Group. Subcutaneously administered Repronex in oligo-ovulatory female patients undergoing ovulation induction is as effective and well tolerated as intramuscular human menopausal gonadotropin treatment. Fertil Steril, 2001, 76(1): 58-66.

Farah-Eways LA, Reyna R, **Knochenhauer ES**, Bartolucci AA, Azziz R. Glucose Action and Adrenocortical biosynthesis in women with polycystic ovarian syndrome. *Fertil Steril* 2004, 81(1);120-5.

Azziz R, Sanchez LA, **Knochenhauer ES**, Moran C, Lazenby J, Stephens KC, Taylor K, Boots LR. Androgen excess in women: Experience with over 1000 consecutive patients. *J Clin Endocrinol Metab.* 2004 89(2):453-62.

### **PUBLICATIONS: ABSTRACTS**

**Knochenhauer ES**, Potter HD, Lazenby AJ, Azziz R. Is Heterozygosity for 21-Hydroxylase (21-OH) Deficient Classic (CAH) Adrenal Hyperplasia a Risk Factor for Hyperandrogenism? American Society for Reproductive Medicine, 1995, Seattle, Washington, Oct 7-12 (Oral Presentation, PG-87)

**Knochenhauer ES**, Conway-Myers BA, Kretzer PA, Steinkampf MP. Effects of Gamete/Embryo Co-culture (CC) using Fresh versus Frozen Homologous Tubal Cells on Human in Vitro Fertilization and Preimplantation Embryo Development. American Society for Reproductive Medicine, 1995, Seattle, Washington, Oct. 7-12 (Poster Presentation, P-26)

**Knochenhauer ES**, Conway-Myers BA, Kretzer PA, Steinkampf MP. Effects of Gamete/Embryo Co-culture (CC) When Utilized from Day 0 (Day of Retrieval) Compared to Day 1 (Day 0 standard media) using Homologous Tubal Cells on Human in Vitro Fertilization and Preimplantation Embryo Development. Society For Gynecologic Investigation, 1996, Philadelphia, PA, March 20-23 (Poster Presentation)

Cortet-Rudelli C, **Knochenhauer ES**, Cunningham RD, Boots LR, Dewailly D, Azziz R. Heterozygosity for 21-Hydroxylase (21-OH) Deficient Classic (CAH) Adrenal Hyperplasia May Be A Risk Factor for Hyperandrogenism. International Congress of Endocrinology, 1996, San Francisco, Ca, June 12-15 (Oral Presentation, OR26-7).

Azziz R, **Knochenhauer ES**. Evaluation of Infertility: A Cost Effective Approach. 10<sup>th</sup> World Congress on IVF, 1997, Vancouver, B.C., Canada, May 24-28 (Oral Presentation).

Azziz R, Steinkampf MP, **Knochenhauer ES**. Is ART the Best Treatment for Infertile Couples? Not So! 10<sup>th</sup> World Congress on IVF, 1997, Vancouver, B.C., Canada, May 24-28 (Oral Presentation).

**Knochenhauer ES**, Waggoner WT, Azziz R, Carmina E, Dewailly D, Fruzzetti F, Ibanez L, Marcondes JAM, Mendonca BB, Rohmer V, Speiser PW, Zacur HA. Clinical Features and Genotype of 21-hydroxylase (21-OH) Deficient Non-classic Adrenal Hyperplasia (NCAH): A Multicenter Study. 79th Annual Meeting of the Endocrine Society, 1997, Minneapolis, MN, June 11-14 (Poster Presentation, P1-358)

**Knochenhauer ES**, Kahsar-Miller MD, Boots LR, Key TJ, Azziz R. Prevalence of Hirsutism Among Unselected Black and Caucasian Women in the Southeastern United States (U.S.) 79th Annual Meeting of the Endocrine Society, 1997, Minneapolis, MN, June 11-14 (Poster Presentation, P1-357)

**Knochenhauer ES**, Decanter C, Cortet-Rudelli C, Weil J, Waggoner WT, Conway-Myers BA, Dewailly D, Azziz R. Genotype and Phenotype in Women With 21-Hydroxylase (21-OH) Deficient Non-classic Adrenal Hyperplasia (NCAH). 53rd Annual Meeting of the American Society for Reproductive Medicine, 1997, Cincinnati, OH, October 18-22 (Oral Presentation, 78).

**Knochenhauer ES**, Decanter C, Cortet-Rudelli C, Morel Y, Conway-Myers BA, Dewailly D, Azziz R. Genotype in Women with 21-Hydroxylase (21-OH) Deficient Non-Classical Adrenal Hyperplasia (NCAH). The Endocrine Society 80<sup>th</sup> Annual Meeting, 1998, New Orleans, LA, June 23-27 (Poster Presentation, PI-369).

Azziz R, Hincapie LA, Conway-Myers BA, **Knochenhauer ES**, Fox L, Cortet-Rudelli C, Dewailly D, Boots LR. Screening for 21-Hydroxylase (21-OH) Deficient Non-Classical Adrenal Hyperplasia (NCAH) in Hyperandrogenic (HA) Women: A Prospective Study. The Endocrine Society 80<sup>th</sup> Annual Meeting, 1998, New Orleans, LA, June 23-27 (Oral Presentation, OR3-6).

Huerta R, Dewailly D, Decanter C, **Knochenhauer ES**, Boots LR, Azziz R. Serum 11 $\beta$ -Hydroxyandrostenedione (11-OHA4) and  $\Delta^5$ -Androstenediol (ADIOL) as Markers of Adrenal Androgen (AA) Production: Studies in 21-Hydroxylase (21-OH) Deficient Non-Classical Adrenal Hyperplasia (NCAH). Endo '99, the 81<sup>st</sup> Annual Meeting of the Endocrine Society, 1999, San Diego, CA, June 12-15 (Poster Presentation, P3-330).

**Knochenhauer ES**. The Value of Chin and Lower Abdomen Hair Growth Alone in Predicting Significant Full Body Hirsutism, IFFS '98 16<sup>th</sup> World Congress on Fertility and Sterility and the 54<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine, 1998, San Francisco, CA, October 4-9 (Poster Presentation, P-569).

Azziz R, Black VY, **Knochenhauer ES**, Hines GA, Boots LR. Adrenal Androgens do not Play a Significant Role in the Oligo-Ovulation of the Polycystic Ovary Syndrome (PCOS). IFFS '98 16<sup>th</sup> World Congress on Fertility and Sterility and the 54<sup>th</sup> Annual Meeting of the American Society for Reproductive Medicine, 1998, San Francisco, CA, October 4-9 (Poster Presentation, P-866).

Farah LA, **Knochenhauer ES**, Boots L, Potter HD, Azziz R. Normal Adenarche: A Longitudinal Study. 46<sup>th</sup> Annual Meeting of the Society for Gynecological Investigation, Atlanta, Ga, March 10-13, 1999, P-495

Moran C, Azziz R, Carmina E, Dewailly D, Fruzzetti F, Ibanez L, **Knochenhauer ES**, Marcondes JA, Mendoca BB, Pugeat M, Rhomer V, Spenser PW. Presenting Features of 21-Hydroxylase (21-OH) Deficient Non-Classical Adrenal Hyperplasia (NCAH) and Relationship to Age: A Multicenter Study. Endo '99, the 81<sup>st</sup> Annual Meeting of the Endocrine Society, 1999, San Diego, CA, June 12-15 (Poster Presentation, P3-331).

Huerta R, Dewailly D, Decanter C, **Knochehauer ES**, Boots LR, Azziz R. Serum 11 $\beta$ -hydroxyandrostenedione and  $\Delta^5$ -androstenediol as markers of adrenal androgen production: Studies in 21-hydroxylase deficient non-classical adrenal hyperplasia. Endo '99, the 81<sup>st</sup> Annual Meeting of the Endocrine Society, 1999, San Diego, CA, June 12-15 (Oral Presentation, OR29-6).

Huerta R, Dewailly D, Decanter C, **Knochehauer ES**, Boots LR, Azziz R. Adrenocortical Hyper-responsivity to ACTH: A Mechanism Favoring the Normal Production of Cortisol in 21-Hydroxylase Deficient Non-Classical Adrenal Hyperplasia. Endo '99, the 81<sup>st</sup> Annual Meeting of the Endocrine Society, 1999, San Diego, CA, June 12-15 (Oral Presentation, OR29-6).

Speiser PW, **Knochenhauer ES**, Dewailly D, Fruzzetti F, Marcondes JAM, Azziz R. Genotype and Phenotype In Women with Non-classic Congenital Adrenal Hyperplasia. Endo '00, the 82<sup>st</sup> Annual Meeting of the Endocrine Society, 2000, San Diego, CA, June 21-24 (P-1654).

Traynor KD, Knochenhauer ES, Woods K, Key TJ, Boots LR, Azziz R. Prevalence of the Polycystic Ovarian Syndrome (PCOS) Among 402 Unselected Consecutive Premenopausal Women. Polycystic Ovarian Syndrome: Basic Biology and Clinical Intervention Meeting, National Institute of Environmental Health Sciences, Research Triangle Park, NC, September 17-20, 2000

### **PUBLICATIONS: CHAPTERS AND REVIEWS**

**Knochenhauer ES**, Younger JB. Menopause. Women's Primary Health Care: Office Practice and Procedures, 2<sup>nd</sup> Edition, McGraw Hill Inc., NY, NY, 1999 (in press).

Chang RJ, **Knochenhauer ES**, Slayden SM, Blackwell R. Anovulation of CNS Origin: Anatomic Causes, in Blackwell R., Carr B., eds., Textbook of Reproductive Medicine, 2<sup>nd</sup> Edition, Appleton and Lange, Stanford, CT. 1997 (Chapter 15).

**Knochenhauer ES**, Azziz R. Adenomyosis, Leiomyomata and Pelvic Pain, in Blackwell R., Carr B., eds., Textbook of Reproductive Medicine, 2<sup>nd</sup> Edition, Springer-Verlog, New York, NY. 1997.

**Knochenhauer ES**, Azziz R. Uterine Causes of Pelvic Pain, in Blackwell R., Olive D. eds., Chronic Pelvic Pain: Diagnosis and Treatment, Springer-Verlog, New York, NY. 1997.

Conway-Myers BA, Azziz R, **Knochenhauer ES**. Oocytes in Hyperandrogenism in "Human Oocytes: From Physiology to IVF", Eds. Monduzzi Editore, 1997.

Blackwell R, **Knochenhauer ES**. Pituitary Tumors. Gynecology & Obstetrics, J.B. Lippincott Company, Philadelphia, Pa. 1996. (Chapter 25, vol 5:1-13).

Blackwell R, Hammond KR, **Knochenhauer ES**. Prolactin Disorders in Infertility, in Seibel MM eds., Infertility: A Comprehensive Text, 2<sup>nd</sup> Edition, Appleton and Lange, Philadelphia, PA. 1996. (Chapter 9 pp 155-170).

**Knochenhauer ES**, Blackwell RE. Operative Hysteroscopic Procedures, in Azziz R, Murphy AA eds., Practical Manual of Operative Laparoscopy and Hysteroscopy, 2<sup>nd</sup> Edition, Springer-Verlog, New York, NY. 1996 (Chapter 27 pp 286-293).

**Knochenhauer ES**, Azziz R. Photo and Video Documentation of Endoscopic Surgery, in Azziz R, Murphy AA eds., Practical Manual of Operative Laparoscopy and Hysteroscopy, 2<sup>nd</sup> Edition, Springer-Verlog, New York, NY. 1996 (Chapter 7 pp 49-58).

**Knochenhauer ES.** A Case Discussion of Hyperandrogenism. Collected Letters, International Correspondence Society Of Obstetricians and Gynecologists. 37(8) Aug. 1996.

**Knochenhauer ES,** Azziz R. Current Concepts in the Diagnosis and Treatment of the Hirsute Patient. Current Opinion in Obstetrics and Gynecology.1995, 7(5):344-350.