# Curriculum Vitae

**Michael H. Heit MD, PhD**

### Urogynecology Associates, PSC

1633 N. Capital Avenue #436

Indianapolis, IN 46202

### Tel #317-962-6600

### Fax #317-962-2049

### email mheitmd@gmail.com

**Home Address:** 1464 North New Jersey Street, Indianapolis, IN 46202

**Date of Birth:** July 23, 1962 **Place of Birth:** Queens, New York **Citizenship:** USA

**Marital Status**: Married **Wife**: Andrea Marino **Children:** Meaghan, Kaitlyn

#### Academic Degrees

***Undergraduate Education***

June 1984 BS with honors State University of New York at Binghamton, Vestal, NY

 [Biochemistry]

***Graduate Education***

July 1988 MD St. Louis University School of Medicine, St. Louis, MO

June 2001 MSPH University of Louisville, Clinical Investigative Sciences

Dec 2005 PhD University of Louisville, Clinical Investigative Sciences

***Postdoctoral Clinical Training***

July 1988-June 1992 Residency ObGyn Wash. Univ. Med Center, St. Louis, MO

July 1991-June 1992 Admin Chief ObGyn Wash. Univ. Medical Center, St. Louis, MO

July 1992-May 19944 Fellowship Urogynecology Rush Pres. St. Luke’s Med Center, Chicago, IL

#### Academic and Professional Experience

***Faculty Appointments***

July 1992-May 1994 Instructor Department of Obstetrics and Gynecology

 Rush-Presbyterian St. Luke’s Medical

 Center, Chicago, IL

July 1994-June 1996 Instructor Department of Obstetrics and Gynecology,

 University of Louisville

July 1996-June 2000 Assistant Professor Department of Obstetrics and Gynecology

 University of Louisville

July 2001-Dec 2003 Associate Professor (tenured) Department of Obstetrics and Gynecology

 University of Louisville

Jan 2004-Aug 2010 Physician Urogynecology Specialists of KYana, PLLC

Sept 2010- Jan 2013 Physician Louisville Urogynecology PLLC

Feb 2013 – present Physician Urogynecology Associates, PSC,

 Indianapolis, IN

Feb 2013 – present Clinical Associate Professor Dept of Obstetrics and Gynecology

 Indiana University School of Medicine

August 2014- Fellowship Director Female Pelvic Medicine and Reconstructive

 Surgery

 Department of Obstetrics and Gynecology

 Indiana University School of Medicine

***Hospital Staff Appointments***

July 1994 - Dec 2004 Medical staff University of Louisville Hospital, Louisville, KY

July 1994 - Jan 2013 Medical staff Norton Hospital, Louisville, KY

July 1994 - Jan 2013 Medical staff Jewish Hospital, Louisville, KY

July 1994 - Jan 2013 Medical staff Norton Suburban, Louisville, KY

July 1994 – Jan 2013 Medical staff Norton Audubon, Louisville, KY

July 1994 – Jan 2013 Medical staff Baptist Hospital East, Louisville, KY

Mar 2013 – present Medical staff IU Health Methodist Hospital, Indianapolis, IN

Mar 2013 – present Medical staff IU Health North Hospital, Carmel, IN

July 2014 – present Medical staff IU Saxony Hospital, Fishers, IN

##### Medical Licensure

Physician & Surgeon: Indiana, 01068201A DEA Registration: BH3272058

##### Board Certification

American Board of Ob/Gyn General Obstetrics and Gynecology Nov 1996

American Board of Ob/Gyn Female Pelvic Medicine and Reconstructive Surgery Sept 2013

##### Professional Societies

July 1988-present Fellow American College of Obstetricians and Gynecologists

July 1992-present Member American Urogynecologic Society

July 1992-present Member International Continence Society

July 1992-present Member International Urogynecological Association

July 1992-present Fellow American College of Surgeons

July 1992-present Member Louisville Ob/Gyn Society

July 1992-present Member Jefferson County Medical Association

July 1992-present Member Society of Gynecologic Surgeons

**Editorial Boards, Advisory Councils and Committees**

***Editorial Boards***

Jan 2004-2009 International Urogynecology Journal and Pelvic Floor Dysfunction

***Committees - Department of Obstetrics and Gynecology***

July 1991-June 1992 Review Committee Washington University Medical

 Center, St. Louis, MO

July 1994-June 1995 Intervention Evaluation Committee University of Louisville, Louisville,KY

***Committees - Hospital***

July 1997-June 1998 Ob/Gyn OR Committee Alliant Health System, Norton

 Hospital

July 1997-June 1998 OB/Gyn Quality Review Committee Alliant Health System, Norton

 Hospital

***Committees - Private Office***

July 1997-June 1998 PSC Planning Committee University OB/GYN Associates

 Louisville, KY

***Committees – National***

July 2003-2005 AUGS Research Committee

Nov 2010 NIH Special Emphasis Panel\_PFDN\_Cycle 3 review

October 2010 Inaugural AUGS Research Summit Committee Member

July 2011 Founding member, AUGS Clinical Practice Guideline committee

Feb 2014 2014 AUGS/IUGA Scientific Program Committee Member

Nov 2015 NIH Special Emphasis Panel\_PFDN\_Cycle 4 review

***Ad Hoc Journal Reviewer***

International Urogynecology Journal and Pelvic Floor Dysfunction

American Journal of Surgery

Obstetrics & Gynecology

American Journal of Obstetrics and Gynecology

Journal of the American Association of Gynecologic Laparoscopists

***Directorates and Similar Academic Appointments***

July 1982-June 1984 Biology (TA) State University of New York at Binghamton, Vestal, NY

July 1988-June 1992 Instructor ObGyn Washington University, St. Louis, MO

July 1992-June 1994 Instructor ObGyn Rush Medical College, Chicago, IL

July 1994-Dec 2004 Director Division of Female Pelvic Medicine and Reconstructive Surgery

 University of Louisville, Louisville, KY

July 1994-Dec 2004 Director Women’s Pavilion Continence Center, Alliant Medical Pavilion, Louisville,

 KY

July 2001-Dec 2004 Director ABOG/ABU Accredited Fellowship program in Female Pelvic Medicine

 And Reconstructive Surgery, University of Louisville, Louisville, KY

August 2014- Director ABOG/ABU Accredited Fellowship program in Female Pelvic Medicine

 And Reconstructive Surgery, Indiana University, Indianapolis, IN

##### Educational Honors and Awards

June 1988 Honors in Biochemistry

June 1988 Clinical Externship honors in Gynecologic Oncology (University of Michigan, Ann Arbor, MI)

June 1990 Clinical Clerkship honors in Internal Medicine

June 1992 Outstanding Teaching Professor, Rush Presbyterian St. Lukes Medical Center

June 1994 Advisor, Searle Resident Research Paper Award, Second Place District VI ACOG

June 1997 Outstanding Teaching Professor, University of Louisville Department of Ob/Gyn

June 1997 CREOG National Faculty Award for Excellence in Resident Education

June 1998 Outstanding Teaching Professor, University of Louisville Department of Ob/Gyn

June 2002 Outstanding Teaching Professor, University of Louisville Department of Ob/Gyn

May 2003 Outstanding Achievement Award. Outstanding Accomplishments in Clinical Research and Academic Medicine, University of Louisville, CREST Program

2005 Mentor, June Allyson Foundation Research Award

2005 Graduate Dean’s Citation, University of Louisville

2006 Mentor, June Allyson Foundation Research Award

2008 Mentor, SGS Presidents Award for Outstanding Research

**Community Service**

July 2000 Director Continuing Medical Education Course, First Annual Women’s Health

 Issues: Urinary Incontinence and Pelvic Organ Prolapse. University of

 Louisville

July 2001 Co-Director Continuing Medical Education Course, Second Annual Women’s Health

 Issues: Urinary Incontinence and Pelvic Organ Prolapse. University of

 Louisville

July 2002 Co-Director Continuing Medical Education Course, Third Annual Conference on

 Incontinence & Pelvic Organ Prolapse. University of Louisville

July 2002-03 President Louisville Ob/Gyn Society

##### Bibliography

1. ***Publications***

***Peer-Reviewed***

1. Brubaker L, **Heit M**. Radiology of the pelvic floor. In *Clinical Obstetrics and Gynecology*, Delancey JOL (ed), JB Lippincott Company, Philadelphia, PA, 36:952, 1993.
2. **Heit M**, Brubaker L. "Urodynamic Equipment: Making the Right Choice." *Contemp Ob/Gyn* 40:49-58, 1995.
3. **Heit M**, Benson JT, Russell B, Brubaker L. Levator Ani Muscle in Women with Genitourinary Prolapse: Indirect Assessment by Muscle Histopathology. *Neurourology and Urodynamics* 1996;15:17-29.
4. **Heit M**, Brubaker L. Clinical Correlates in Patients not Completing a Voiding Diary. *Int Urogynecol J* 1996;7:256-259.
5. **Heit M**. Infectious Peritonitis Complicating Suprapubic Catheter Removal. *Int Urogynecol J* 1997;8:47-49.
6. **Heit M**. Prolonged Urinary Retention Following Collagen Periurethral Injections: A Sequela of Humoral Immunity. *Obstet Gynecol* 1997;90(4):693-5.
7. **Heit M**, Brubaker L. An Alternative Statistical Approach for Predicting Prolonged Catheterization after Burch Colposuspension. *Int Urogynecol J* 1997;8:203-208.
8. Tao YX, **Heit M**, Lei ZM, Rao CV. The Urinary Bladder of a Woman is a Novel Site of Luteinizing Hormone/Human Chorionic Gonadotropin Receptor Gene Expression. *Am J Obstet Gynecol* 1998;179(4):1026-31.
9. **Heit M.** Endoluminal Ultrasound of the Urethra: A New Technology Awaiting Further Investigation. *J Pelvic Surg* 1999;5:22-31.
10. Fischer J, **Heit M**, Clark M, Benson JT. Correlation of Intraurethral Ultrasonography and Needle Electromyography of the Urethra. *Obstet Gynecol*  2000;95(1):156-9.
11. **Heit M**. Intraurethral Ultrasonography: Correlation of Urethral Anatomy with Functional Urodynamic Parameters. *Int Urogynecol J* 2000;11(4):204-211.
12. **Heit M**, Pasic R, Levine R. Suture Placement During Retropubic Urethropexy. *Int Urogynecol J* 2001; 12(1):42-45.
13. Soergel T, Shott S, **Heit M.** Poor Surgical Outcomes After Fascia Lata Allograft Slings. *Int Urogynecol J* 2001;12(4):247-253.
14. Culligan P, **Heit M**. Urinary Incontinence in Women: Evaluation and Management. Am Fam Physician 2000;62(1):2433-44.
15. **Heit M**, Mudd K, Culligan P. Prevention of Childbirth Injuries to the Pelvic Floor. *Current Women’s Health* *Reports*; 1:72-80, 2001.
16. **Heit M**, Culligan P, Rosenquist C, Shott S. Is Pelvic Organ Prolapse a Cause of Pelvic or Low Back Pain. *Obstet Gynecol* 2002;99(1):23-28.
17. Major H, Culligan P, **Heit M**. Urethral Sphincter Morphology in Women with Detrusor Instability. *Obstet Gynecol* 2002;99(1):63-68.
18. **Heit M.** Intraurethral Ultrasonography and the Test-Retest Reliability of Sphincter Measurements. *J Clinical Ultrasound*  2002;30(6):349-55.
19. Culligan PJ, Koduri S, **Heit MH,** Rackley R, Thomson RB, Schwabe L, Goldberg RP, Bent AE, Nihira M, Sand, PK. The Safety of Reusing Injectable Collagen: A Multicenter Microbiological Study. *International Urogynecology Journal*  2002;13(4):232-235.
20. Rardin, CR, Rosenblatt, PL, Kohli, N, Miklos, JR, **Heit, M**, Lucente, VR. Release of Tension-Free Vaginal Tape for the Treatment of Refractory Postoperative Voiding Dysfunction. *Obstet Gynecol* 2002; 100(5):898-902.
21. **Heit M**. What is the Scientific Evidence for Bone Anchor Use During Bladder Neck Suspension? *Int. Urogynecol J* 2002;13(3):143-144.
22. Culligan P, Hill S, Heit M. Rupture of the Symphysis Pubis During Vaginal Delivery Followed by Two Subsequent Uneventful Pregnancies. Obstet Gynecol 2002;100(5 part 2):1114-1117.
23. Culligan P, Murphy M, Blackwell L, Hammons G, Graham C, Heit M. Long-term Success of Sacral Colpopexy Using Synthetic Mesh. Am J Obstet Gynecol 2002;187(6):1473-1482.
24. Culligan PJ, Miklos JR, Murphy M, Goldberg R, Graham CA, Moore R, Hainer M, Heit MH. The tensile strength of uterosacral ligament sutures: A comparison of vaginal and laparoscopic techniques. Obstet Gynecol 2003;101(3):500-503.
25. Murphy M, Heit M, Fouts L, Graham C, Blackwell L, & Culligan P. Effect of Anesthesia on Voiding Function Following Tension-Free Vaginal Tape. Obstet Gynecol 2003;101(4):666-670.
26. Heit M, Rosenquist C, Culligan P, Graham C, Murphy M, & Shott S. Predicting treatment choice for patients with pelvic organ prolapse. Obstet Gynecol 2003;101(6):1279-1284.
27. Culligan PJ, Heit MH, Blackwell L, Graham CA, Smith M, Snyder J. Bacterial colony counts during vaginal surgery. Infectious Diseases in Obstetrics and Gynecology 2003; 11:161-165.
28. Heit M, Blackwell L, Thomas S, Ouseph R. The Prevalence and Severity of Urinary Incontinence in Kidney Transplant Recipients. Obstet Gynecol 2004;103: 352-358.
29. Murphy M, Heit M, Culligan PJ. Evaluation and treatment of female urinary incontinence. American Journal of Medicine and Sports. 2004; 6(2):70-7.
30. Kubik K, Blackwell L, **Heit M**. Does Socioeconomic Status Explain Racial Differences in Urinary Incontinence Knowledge? Am J Obstet Gynecol 2004; 191:199-193
31. Murphy M, Culligan P, Graham C, Kubik K, **Heit M**. Is the leak point pressure alone an accurate indicator of intrinsic sphincteric deficiency? Int Urogynecol J Pelvic Floor Dysfunct. 2004;15(5):294-7.
32. Nygaard I, **Heit M**. Stress Incontinence; Clinical Gynecologic Series: An Expert’s View. Obstet Gynecol 2004;104:607-620.
33. **Heit M**. Blackwell L. Ouseph R. Comorbidities affect the impact of urinary incontinence as measured by disease-specific quality of life instruments. International Urogynecology Journal. 2005; 16(1):6-11.
34. Murphy M., Culligan P.J., Arce CM. Graham CA. Blackwell L. **Heit MH**. Is the cough-stress test necessary when placing the tension-free vaginal tape?. Obstet & Gynecol 2005; 05(2):319-24.
35. Culligan PJ, Blackwell L, Goldsmith LJ, Graham CA, Rogers A, **Heit MH**. A Randomized Controlled Trial Comparing Fascia Lata and Synthetic Mesh for Sacral Colpopexy. Obstet Gynecol 2005;106(1):29-37.
36. Murphy M, Culligan PJ, Arce CM, Graham CA, Blackwell L, **Heit MH.** Construct validity of the incontinence severity index. Neurourology and Urodynamics 25 (5):418-423.
37. Culligan P, Blackwell L, Murphy M, Ziegler C, **Heit M**. A randomized, double-blinded, sham-controlled trial of postpartum extracorporeal magnetic innervation to restore pelvic muscle strength in primiparous patients. Am J Obstet Gynecol (2005) 192, 1578–82
38. **Heit M**. Nocturia. Contemp Ob/Gyn August 1, 2007
39. Epstein L, Graham C, **Heit, M**. Systematic and vaginal biomechanical properties of women with normal vaginal support and pelvic organ prolapse. Am J Obstet Gynecol (Aug 2007) 197:165 e1-6.
40. **Heit M**, Blackwell L, Kelly S. Adapting the Theory of Care Seeking Behavior to the Clinical Problem of Urinary Incontinence. J Pelvic Surgery. 2007, 14(1):29-35.
41. **Heit M,** Blackwell L, Kelly S. Measuring Barriers to Incontinence Care Seeking. Neurourol Urodyn. 2007. 27:174-178.
42. **Heit M**, Blackwell L, Kelly S. Measuring the Utility of Incontinence Care Seeking. Int Urogynecol J. 2008, 19:143-149
43. Epstein L, Graham C, **Heit M**. Impact of sacral colpopexy on in vivo vaginal biomechanical properties. Am J Obstet Gynecol 2008, 199:664 e1-6
44. Epstein L, Graham C, **Heit M**. Correlation between vaginal stiffness index and pelvic floor disorders quality of life scales. Int Urogynecol 2008,19:1013-1018.
45. Canter MP, Graham CA, **Heit MH**, Blackwell L, Wilkey DB, Klein JB, Merchant ML. Proteomic techniques identify urine proteins that differentiate patients with interstitial cystitis from asymptomatic control subjects
American Journal of Obstetrics & Gynecology. 2008 Vol. 198, Issue 5, Pages 553.e1-553.e6
46. Nygaard I, Chai TC, Cundiff GW, DeLancey JOL, Fitzgerald MP, **Heit M,** Moalli P, Richter HE, Subak L, Swift S. Summary of Research Recommendations From the Inaugural American Urogynecologic Society Research Summit. FPMRS. 2011,17(1):4-7.
47. **Heit M**. The Case for Conventional Laparoscopic Sacrocolpopexy. Int Urogynecol J. 2012 Sep;23(9):1179-81
48. **Heit M** with American Urogynecologic Society’s Guidelines Development Committee. Guidelines for Providing Privileges and Credentials to Physicians for Transvaginal Placement of Surgical Mesh for Pelvic Organ Prolapse FPMRS 2012, 189(4): 194-197
49. **Heit M** with American Urogynecologic Society’s Guidelines Development Committee*.* Guidelines for Privileging and Credentialing Physicians for Sacrocolpopexy for Pelvic Organ Prolapse FPMRS 2013, 19(2): 62-65
50. **Heit M** with American Urogynecologic Society’s Guidelines Development Committee. Diagnosis and Treatment of Overactive Bladder FPMRS 2013, 19(6): 316.
51. **Heit M**. Surgical Proctoring for Gynecologic Surgery. Obstet Gynecol. 2014; 123(2, PART 1):349-352
52. Kassis N, Wo J, James-Stevenson T, Maglinte D, **Heit M**, Hale D. Balloon Expulsion Testing for The Diagnosis of Dyssynergic Defecation in Women with Chronic Constipation Int Urogynecol J 2015; 26 (9) : 1385-90
53. Takase-Sanchez MM, Brooks HM, Hale DS, **Heit MH**. Obliterative Surgery for the Treatment of Pelvic Organ Prolapse: A Patient Survey on Reasons for Surgery Selection and Postoperative Decision Regret and Satisfaction. Female pelvic medicine & reconstructive surgery. 2015; 21(6): 325-31
54. Guirguis N and **Heit M**. Urinary Biomarkers Under Investigation for Overactive Bladder Syndrome. Current Bladder Dysfunction Reports. 2015; 2:1-5.
55. Stewart JR, Hamner J, **Heit M**. “30 Years of Cystocele/Rectocele Repair in the United States” Female pelvic medicine & reconstructive surgery. 2016; 22 (4) : 243-7
56. Carpenter JS, **Heit M**, Rand KL. Development and Psychometric Properties of a Measure of Catheter Burden with Bladder Drainage after Pelvic Reconstructive Surgery. Neurourol Urodyn. 2016; 36(4): 1140-1146. PMID: 27460055.
57. Takase-Sanchez M, Thompson JC, Hale DS, **Heit MH**. Suprapubic versus transurethral bladder drainage following reconstructive pelvic surgery: a comparison of patient satisfaction and quality of life. Int Urogynecol J. 2016; 28(5): 721-728. PMID: 27714436.
58. Ju R, Siddiqui NS, Garrett J, Feng L, **Heit MH**. A Validated Translation of a Survey for Measuring Incontinence Knowledge in Chinese-Speaking American Immigrants. Int Urogynecol J. 2017; 28(6): 851-856. PMID: 27924375.
59. Kassis NC, Hamner JJ, Takase-Sanchez MM, Khoder W, Hale DS, **Heit MH**. If you could see what we see, would it bother you? Int Urogynecol J. 2017; 28 (1): 59-64 PMID: 27372947.
60. Khoder W, Hom E, Guanzon A, Rose S, Hale DS, **Heit M**. Patient Satisfaction And Regret With Decision Differ Between Outcomes In The Composite Definition Of Success After Reconstructive Surgery. Int Urogynecol J 2017; 28(4): 613-620. PMID: 27738734.
61. Carpenter JS, **Heit M**, Chen CX, Stewart R, Hamner J, Rand KL. Validating the PSR13 as a measure of perceived postoperative recovery following laparoscopic sacrocolpopexy. Female Pelvic Med Reconstr Surg. 2017; 23(2): 86-89. PMID: 28230616.
62. **Heit MH**, Guirguis N, Carpenter JS. Operationalizing the Measurement of Socioeconomic Position In Our Urogynecology Study Populations: An Illustrative Review. Female Pelvic Med Reconstr Surg. 2017; 23(3): 208-215. PMID: 27782979.
63. James-Stevenson T, Xu, H, **Heit MH**, Shinn A. Age And Dyssynergia Subtypes Associated With Normal Sphincter Pressures In Women With Fecal Incontinence. Female Pelvic Med Reconstr Surg. 2017 Jun 27 [Epub ahead of print]. PMID: 28657991
64. Durst PJ, **Heit MH**. Polypropylene Mesh Predicts Mesh/Suture Exposure After Sacrocolpopexy Independent of Known Risk Factors: A Retrospective Case-Control Study. Female Pelvic Med Reconstr Surg. 2017 Jun 27. doi: 10.1097/SPV.0000000000000452. [Epub ahead of print] PubMed PMID: 28657987
65. Guanzon A, **Heit M**, Khoder W. Increasing Anteroposterior Genital Hiatus Widening Does Not Limit Apical Descent for Prolapse Staging during Valsalva’s Maneuver: Effect on Symptom Severity and Surgical Decision Making. Female Pelvic Med Reconstr Surg 2017; 2017 Sep 13. doi: 10.1097/SPV.0000000000000474. [Epub ahead of print], PMID:28914705
66. Stewart JR, **Heit MH**, Meriwether KV, Hobson DT, Francis SL. Analyzing the Readability of Online Urogynecologic Patient Information. Female Pelvic Med Reconstr Surg. 2017 Nov 7. doi: 10.1097/SPV.0000000000000518. [Epub ahead of print] PubMed PMID: 29117016
67. Touza KK, Rand KL, Carpenter JS, Chen CX, **Heit MH**. A Scoping Study of Psychosocial Factors in Women Diagnosed With and/or Treated for Pelvic Organ Prolapse. Female Pelvic Med Reconstr Surg. 2018 Mar 5. doi: 10.1097/SPV.0000000000000578. [Epub ahead of print] PubMed PMID: 29509647.
68. Arunachalam D, Hale DS, **Heit MH**. Posterior Compartment Surgery Provides No Differential Benefit for Defecatory Symptoms Before or After Concomitant Mesh-Augmented Apical Suspension. Female Pelvic Med Reconstr Surg. 2018 Mar/Apr;24(2):183-187. doi: 10.1097/SPV.0000000000000538. PubMed PMID: 29319557.
69. [**Heit M**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Heit%20M%5BAuthor%5D&cauthor=true&cauthor_uid=29923843)**H**, [Carpenter JS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Carpenter%20JS%5BAuthor%5D&cauthor=true&cauthor_uid=29923843), [Chen CX](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chen%20CX%5BAuthor%5D&cauthor=true&cauthor_uid=29923843), [Stewart R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Stewart%20R%5BAuthor%5D&cauthor=true&cauthor_uid=29923843), [Hamner J](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hamner%20J%5BAuthor%5D&cauthor=true&cauthor_uid=29923843), [Rand KL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Rand%20KL%5BAuthor%5D&cauthor=true&cauthor_uid=29923843). Predictors of Postdischarge Surgical Recovery Following Laparoscopic Sacrocolpopexy: A Prospective Cohort Study. Female Pelvic Med Reconstr Surg. 2018 Jun 19. doi: 10.1097/SPV.0000000000000599. [Epub ahead of print] PubMed PMID: 29923843
70. Arunachalam D, **Heit MH**. Low Bladder Compliance in Women: A Clinical Review. Female Pelvic Med Reconstr Surg 2018 Dec 5. doi: 10.1097/SPV.0000000000000666. [Epub ahead of print]. PubMed PMID: 30520742

## Non Peer-Reviewed

1. **Heit M.** "Potential Stress Urinary Incontinence." Issues in Incontinence, Saxe *Healthcare Communications* 1(3):2-6, 1995.
2. **Heit M.** “Episiotomy: To Cut or Not To Cut?” PCC Newsletter. University of Louisville 22(12):1-4,1995.
3. **Heit M.** “Potential Stress Urinary Incontinence: Are Asymptomatic Patients with Severe Genitourinary Prolapse Truly Dry?” *Ob/Gyn on Call*. University of Louisville 4(1):1-2, 1995.
4. **Heit M.** Dynamic Cystoproctology: Are We Willing to Live Without It. *Louisville Medicine* 44(7): 306-307, 1996.
5. **Heit M**, Culligan P. Evaluation and Management of Stress Urinary Incontinence in the New Millennium. *Louisville Medicine*; 48:79-81, 2000.
6. **Heit M.** Technologic Advances in the Management of Women with Urinary Incontinence. *Louisville Medicine*; 50:99-101, August 2002.

**B. *Abstracts***

1. **Heit M**, Brubaker L, Benson JT, Russell B. The Variability of Levator Ani Muscle in the Human Female. American Uro-Gynecologic Society and the Uro-Dynamics Society Annual Scientific Meeting; San Antonio, TX, November 1993*. Int Urogynecol J* 1993;397.
2. **Heit M**, Brubaker L, Benson JT, Russell B. The Variability of Levator Ani Muscle in the Human Female. Women's Urological Symposium NIH Conference, March 1994.
3. **Heit M**. The Blank Voiding Diary: Clinical Significance in a Urogynecologic Practice. American Uro-Gynecologic Society annual clinical meeting, September 1994*. Int Urogynecol J* 5(6): 386.
4. **Heit M**, Vogt V, Brubaker L. Predicting Prolonged Catheterization after Burch Colposuspension: A New Statistical Approach. American Uro-Gynecologic Society annual clinical meeting, September 1994. *Int Urogynecol J* 5(6): 385.
5. **Heit M**, Vogt V, Brubaker L. Predicting Prolonged Catheterization after Burch Colposuspension: A New Statistical Approach. Presented by V. Vogt at District VI, American College of Ob/Gyn annual clinical meeting, September 1994. Awarded Searle Resident Research Award, Second Place.
6. Tao YX, **Heit M**, Lei ZM, Rao CV, Trigone of Human Urinary Bladder is a Novel Site of Luteinizing Hormone/Chorionic Gonadotropin Receptor Expression. Poster Presentation at the Society for Gynecologic Investigation March 1996.
7. TaoYX, **Heit M**, Lei ZM, Rao CV, Trigone of Human Urinary Bladder is a Novel Site of Luteinizing Hormone/Chorionic Gonadotropin Receptor Expression. Poster Presentation 1996 American Urogynecologic Society, New Orleans, LA. Int Urogynecol J (1996) 7:302.
8. **Heit M**. Intraurethral Ultrasound; Correlation Of Urethral Sphincter Morphology With Functional Urodynamic Parameters. Oral Presentation 1997 American Urogynecologic Society, Tucson, Arizona. *Int Urogynecol J* 1997;8:252.
9. Levine R, **Heit M**, Pasic R, A Preliminary Comparison Of Vaginal Template And Modified Burch Colposuspension For Suture Placement In Retropubic Urethropexy. 1997 annual clinical meeting of the American Association for Gynecologic Laparoscopists.
10. **Heit M**, Newton M, Goldsmith LJ, Attum O, Visual Evaluation of the Anterior Vaginal Wall Compared to Q-Tip Testing for Bladder Neck Mobility Assessment. Poster Presentation 1997 American Urogynecologic Society, Tucson, Arizona. *Int Urogynecol J* 1997;8:255.
11. Rosenquist C, O’Conner D, Kleuber K, Attum B, **Heit M**. Histopathology of the Pudendal Nerve Along its Course in the Female Pelvis. Oral Presentation. District V Junior Fellow Meeting 1997.
12. **Heit M**, Rosenquist C, O’Conner D, Kleuber K, Attum B, Histopathology of the Pudendal Nerve Along its Course in the Female Pelvis. Oral Presentation. 1998 American Urogynecologic Society, Washington, D.C. *Int Urogynecol J* 1999;10:79.
13. Rosenquist C, **Heit M**. Is Pelvic Pain A Symptom of Pelvic Organ Prolapse? Poster Presentation. District V Junior Fellow Meeting 1997. Cleveland, OH.
14. Herzog M, Clark A, **Heit M**. The Influence of Epidural Analgesia on the Development of Postpartum Stress Urinary Incontinence. Poster Presentation. 1998 American Urogynecologic Society, Washington, D.C. *Int Urogynecol J* 1999;10:71.
15. Soergel T, **Heit M.** Suburethral Slings Utilizing Rectus Abdominus Versus Donor Fascia Lata: A Retrospective Study Comparing Objective Cure Rates. Poster Presentation. 1998 American Urogynecologic Society, Washington, D.C. *Int Urogynecol J* 1999;10: 71.
16. Fischer J, **Heit M**, Benson JT, Correlation of Intraurethral Ultrasound with Needle EMG of the Urethra. Poster Presentation. 1998 American Urogynecologic Society, Washington, D.C. *Int Urogynecol J* 1999; 10:87.
17. **Heit M**. Intraurethral Ultrasonography (IUUS): Test-Retest Reliability Of Urethral Sphincter Measurements. Poster Presentation. 1999 American Urogynecologic Society, San Diego, CA.
18. **Heit M**, Pasic R, Levine R. Suture Placement During Retropubic Urethropexy. Oral Presentation. 2000 Annual Meeting of Society of Gynecologic Surgeons. New Orleans, LA.
19. Rosenquist C, **Heit M**. Is pelvic pain a symptom of pelvic organ prolapse? Poster Presentation. 2000 Society of Gynecologic Surgeon’s Annual Clinical Meeting and 2000 American Urogynecologic Society annual Clinical Meeting. New Orleans, Louisiana and Hilton Head Island, South Carolina.
20. **Heit M**, Rosenquist C, Culligan P, Shott S. Predictors of treatment choice for patients with pelvic organ prolapse. Oral Presentation. 2000 American Urogynecologic Society Annual Clinical Meeting. Hilton Head Island, South Carolina.
21. Majors H, Culligan P, **Heit M**. Urethral Sphincter Morphology in Women with Detrusor Instability. Oral Presentation. 2001 American Urogynecologic Society Annual Clinical Meeting, Chicago, Illinois.
22. Rardin CR, Rosenblatt PL, Kohli N, Miklos JR, **Heit M**, Lucente VR. Release of Tension-Free Vaginal Tape for the Treatment of Refractory Postoperative Voiding Dysfunction. Oral Presentation. 2001 American Urogynecologic Society Annual Clinical Meeting, Chicago, Illinois.
23. Majors H, Culligan P, **Heit M**. Urethral Sphincter Morphology in Women with Detrusor Instability. Oral Presentation. 2001 International Urogynecology Association Annual Clinical Meeting. Melbourne Australia. *Int Urogynecol J* 2001; 12 Suppl 3: S41.
24. Murphy M, **Heit M,** Fouts L, Graham C, Blackwell L, Culligan PJ. The effect of anesthesia on voiding function following tension-free vaginal tape. Presented at the American Urogynecologic Society 23rd Annual Scientific Meeting, San Francisco, CA, October 17 – 19, 2002.
25. Culligan PJ, Murphy M, Goldberg R, Graham C, Moore R, Hainer M, **Heit M**, Miklos J. Tensile strength of uterosacral ligament suturing: A comparison of the vaginal and laparoscopic techniques. Presented at the American Urogynecologic Society 23rd Annual Scientific Meeting, San Francisco, CA, October 17 – 19, 2002.
26. **Heit M**, Natraj A, Thomas S, Blackwell L, Ouseph R. Prevalence and Severity of Urinary Incontinence in Kidney Transplant Recipients. Presented at the American Urogynecologic Society 23rd Annual Scientific Meeting, San Francisco, CA, October 17 – 19, 2002.
27. Murphy M, Culligan P, Graham C, Kubik K, Attum O**, Heit M.** Is the Leak Point Pressure Alone Always an Accurate Indicator of Intrinsic Sphincter Deficiency. Poster presentation at the American Urogynecologic Society 24th Annual Scientific Meeting, Hollywood, FL September 11-13, 2003. J Pelvic Surgery 2003; 9: 255.
28. Culligan P, Myers J, **Heit M**, Goldberg R, Blackwell L, Gohmann S, Murphy M, Graham C, Abell T. Elective Cesarean Section to Prevent Anal Incontinence and Brachial Plexus Injuries Associated with Macrosomia-A Decision Analysis. Poster presentation at the American Urogynecologic Society 24th Annual Scientific Meeting, Hollywood, FL September 11-13, 2003. J Pelvic Surgery 2003; 9: 245.
29. Kubik K, Blackwell L, **Heit M**. Does Socioeconomic Status Explain Differences in Urinary Incontinence Knowledge? Oral poster presentation at the American Urogynecologic Society 24th Annual Scientific Meeting, Hollywood, FL September 11-13, 2003. J Pelvic Surgery 2003; 9: 220.
30. Culligan P, Habib F, **Heit M**, Blackwell L, Murphy M, Kubik K, Graham C, Abell T. Elective Cesarean Section to Prevent Anal Incontinence Among Women with a History of Anal Sphincter Disruption During a Prior Vaginal Delivery-A Decision Analysis. Oral presentation at the American Urogynecologic Society 24th Annual Scientific Meeting, Hollywood, FL September 11-13, 2003. J Pelvic Surgery 2003; 9: 218
31. Culligan P, Blackwell L, Murphy M, Ziegler C, **Heit M**. A Blinded, Sham-Controlled Trial of Postpartum Extracorporeal Magnetic Inervation to Restore Pelvic Muscle Strength in Primiparous Patients. Oral presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S7. Oral poster presentation at the 2004 Joint Meeting of International Continence Society and the International Urogynecologic Association. 34th Annual Meeting. Paris, France, August 25-27, 2004. Neuro Urol Urodyn 2004;23:451.
32. Canter M, Blackwell L, Graham C, **Heit M**. Does Information Bias Threaten the Validity of Surgical Outcomes in a Randomized Trial. Oral presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S9.
33. Culligan P, Blackwell L, Goldsmith L, Rogers A, **Heit M**. A Double Blinded, Randomized Controlled Trial Comparing Solvent-Dehydrated Cadaveric Fascia Lata and Polypropylene Mesh for Sacral Colpopexy. Oral presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S9.
34. Murphy M, Culligan P, Arce C, Graham C, Blackwell L, **Heit M**. Construct Validity of the Incontinence Severity Index. Oral poster presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S25. Oral poster presentation at the 2004 Joint Meeting of International Continence Society and the International Urogynecologic Association. 34th Annual Meeting. Paris, France, August 25-27, 2004. Neuro Urol Urodyn 2004;23:530-531.
35. Murphy M, Culligan P, Arce C, Graham C, Blackwell L, **Heit M**. Is the Cough-Stress Test Necessary when Placing the Tension-Free Vaginal Tape. Oral poster presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S27.
36. Graham C, Murphy M, **Heit M**. Effects of Estrogen Receptor Agonists on Voiding Function in Hormonally-Altered Female Rats. Oral poster presentation at the 2004 Joint Meeting of the Society of Gynecologic Surgeons/American Urogynecologic Society Annual Scientific Meeting, San Diego, CA July 29-31, 2004. J Pelvic Surgery 2004; 10: S34.
37. **Heit M**, Blackwell L, Kelly S. Measuring Patient Expectations for Incontinence Care Seeking. Oral poster presentation at the 2004 Joint Meeting of International Continence Society and the International Urogynecologic Association. 34th Annual Meeting. Paris, France, August 25-27, 2004. Neuro Urol Urodyn 2004;23:522-523.
38. **Heit M**, Blackwell L, Kelly S. Measuring Barriers to Incontinence Care Seeking. Oral poster presentation at the 2004 Joint Meeting of International Continence Society and the International Urogynecologic Association. 34th Annual Meeting. Paris, France, August 25-27, 2004. Neuro Urol Urodyn 2004;23:523-524.
39. Epstein L, Graham C, **Heit M**. Systematic and vaginal elasticity in women with and without pelvic organ prolapse. Oral presentation at the 2006 International Urogynecologic Association ACM. Athens, Greece. Sept 6-9. Int Urogyn J 2006. 17: s61
40. **Heit M**. Blackwell L, Kelly S. Positive utility of care seeking is predicted by health locus of control rather than ethnicity. Oral presentation at the 2006 International Urogynecologic Association ACM. Athens, Greece. Sept 6-9. Int Urogyn J 2006: s135.
41. **Heit M**. Blackwell L, Kelly S. Positive utility of care seeking is predicted by health locus of control rather than ethnicity. Oral poster presentation at the 2006 International Urogynecologic Association ACM. Athens, Greece. Sept 6-9. Int Urogyn J 2006: s135.
42. **Heit M**, Blackwell L, Kelly S. Ethnicity as an independent predictor of incontinence care seeking when theoretical modeling is used. Poster presentation at the 2006 International Urogynecologic Association ACM. Athens, Greece. Sept 6-9. Int Urogyn J 2006: s192.
43. Epstein LB, Graham CA, **Heit MH**. Impact of Sacral Colpopexy on In Vivo Vaginal Biomechanical Properties. Oral presentation, Society of Gynecologic Surgeons.Thirty-Fourth Scientific Meeting. Savannah, Georgia. April 14 – 16, 2008.
44. Takase-Sanchez MM, Brooks HM, Woodman PJ, Hale DS, **Heit MH**. Colpocleisis for Pelvic Organ Prolapse: A Patient Survey on Reasons for Surgery Selection. Obstetrics & Gynecology. , May 2014,123():103S.
45. Stewart JR, Hale DS , **Heit MH**. Development Of A HIPAA Compliant Web Based Longitudinal Survey

Instrument For Urogynecologic Specific Patient Centered Outcomes Research. Female Pelvic

Medicine & Reconstructive Surgery July/August 2014, Volume 20, July/August 2014, Supplement 1, pp. S142 - S377,s41-s141

1. Stewart JR, Hamner J, **Heit MH**. When The Apex Is Calling, Do Surgeons Answer? Trends In

Cystocele/Rectocele Repair Over The Last 30 Years. Journal of Minimally Invasive Gynecology 22 (2015) S1–S26

1. Takase-Sanchez M, Brooks HM, Woodman P, Hale DS, Heit M. Colpocleisis for Pelvic Organ Prolapse: A Patient Survey on Reasons for Surgery Selection. Obstetrics and Gynecology. 2014 ACOG Annual Scientific Meeting; April 26-30, 2014; Chicago, IL. LWW ]; 2014.
2. Guirguis N, **Heit M**. Measurement of Social Status for health disparities research in Urogynecologic

Patients. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.p S55–S146.

1. Stewart JR,Hale DS, **Heit M**. Development of a HIPAA Compliant Web Based Longitudinal

Survey Instrument for Urogynecologic Specific Patient Centered Outcomes Research. Female Pelvic Medicine & Reconstructive Surgery. 2014 AUGS Annual Scientific Meeting; July 24, 2014; Washington DC. Wolters Kluwer; 2014. p.s151-368.

1. Kassis N, Hamner JJ, Takase-Sanchez MM, Khoder W, Hale DS, **Heit M**. If You Could See

What We See, Would It Bother You?. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.s1-28.

1. Khoder W, Hom E, Guanzon A, Rose S, Hale DS, **Heit M**. Patient Satisfaction and Regret with

Decision Differ Between Outcomes in the Composite Definition of Success After Reconstructive Surgery. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.s1-28.

1. Takase-Sanchez MM, Thompson JC, Hale DS, **Heit M**. Optimizing Patient Satisfaction with

Suprapubic Bladder Drainage Following Reconstructive Pelvic Surgery. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.s29-54.

1. Takase-Sanchez MM, Thompson JC, Hale DS, **Heit M**. Optimizing Patient Satisfaction with Suprapubic Bladder Drainage Following Reconstructive Pelvic Surgery. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.s29-54.

1. Khoder W, Hom E, Guanzon A, Rose S, Hale DS, **Heit M**. Patient Satisfaction and Regret with Decision Differ Between Outcomes in the Composite Definition of Success After Reconstructive Surgery. Female Pelvic Medicine & Reconstructive Surgery. 2015 AUGS Annual Scientific Meeting; Oct 12-17, 2015; Seattle, WA. Wolters Kluwer; 2015. p.s1-28.

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1. Khoder W, Guanson A, Hale DS, **Heit MH**. Genital Hiatus Widening Does Not Limit Apical Descent for Prolapse Staging During Valsalva Maneuver: Effect on Symptom Severity and Surgical Decision Making. In: Brubaker L, editors. Female Pelvic Medicine and Reconstructive Surgery. AUGS 37th Annual Scientific Meeting; September 27- October 1, 2016; Denver, CO. Hagerstown, MD: Wolters Kluwer; 2016. p.53.
2. Stewart R, Rose D, Hale DS, **Heit M**. Google Search Queries in Urogynecology. In: Brubaker L, editors. Female Pelvic Medicine and Reconstructive Surgery. AUGS 37th Annual Scientific Meeting; September 27- October 1, 2016; Denver, CO. Hagerstown, MD: Wolters Kluwer; 2016. p.101
3. Ju R, Siddiqui NY, Kung A, **Heit M**. Urinary Incontinence Knowledge of Chinese American Women. In: Brubaker L, editors. Female Pelvic Medicine and Reconstructive Surgery. AUGS 37th Annual Scientific Meeting; September 27- October 1, 2016; Denver, CO. Hagerstown, MD: Wolters Kluwer; 2016. p.112.
4. **Heit M**, Chen CX, Stewart R, Hamner JJ, Rand KL, Carpenter JS. Recovery Trajectory Following Laparoscopic Sacrocolpopexy For The Identification Of Modifiable Behaviors in Women with Pelvic Organ Prolapse. In: Brubaker L, editors. Female Pelvic Medicine and Reconstructive Surgery. AUGS 37th Annual Scientific Meeting; September 27- October 1, 2016; Denver, CO. Hagerstown, MD: Wolters Kluwer; 2016. p.38.
5. Carpenter JS, **Heit M**, Chen CX, Stewart R, Hamner JJ, Rand KL,. Psychometrics of the PSR-13 For Measurement of Postoperative Recovery After Pelvic Reconstructive Surgery. In: Brubaker L, editors. Female Pelvic Medicine and Reconstructive Surgery. AUGS 37th Annual Scientific Meeting; September 27- October 1, 2016; Denver, CO. Hagerstown, MD: Wolters Kluwer; 2016. p.24.
6. Carpenter J, **Heit M**, Rand K. Development and Psychocmteric Properties of a Measure of Catheter Burden with Bladder Drainage after Pelvic Reconstructive Surgery. Presented at IMS 15th World Congress on Menopause; Prague, Czech Republic. 09/29/2016.
7. James-Stevenson T, Xu H, **Heit M**, Shin A. Age and Dyssynergia Subtypes Associated with Normal Sphincter Pressures in Women with Fecal Incontinence. Presented at 81st Annual Scientific Meeting; Las Vegas, NV. 10/17/2016.
8. James Stevenson T, Xu H, **Heit M**, Shin A. Type II and Type IV Dyssynergic Defecation Is Associated With Abnormal Defecography in Patients with Chronic Constipation. Presented at 81st Annual Scientific Meeting; Las Vegas, Nevada. 10/17/2016.
9. Durst P, **Heit M**. Polypropylene Mesh Predicts Mesh Exposure after Sacrocolpopexy Independent of Known Risk Factors: A Retrospective Case-Control Study. Presented at SGS 43rd annual clinical meeting, San Antonio, TX, March 25-29, 2017. AJOG. 216(3):S562, MAR 2017
10. Arunachalam D, Hale DS, **Heit M.** Posterior Compartment Surgery Provides No Differential Benefit for Defecatory Symptoms Before or After Concomitant Mesh Augmented Apical Suspension. Presented at AUGS 38th Annual Scientific Meeting, October 3-7, 2017, Rhode Island Convention Center, Providence, RI. Female Pelvic Medicine and Reconstructive Surgery 2017, 23(5S1): S42.
11. **Heit M**, Carpenter JS, Stewart R, Hamner JJ, Rand KL. Identifying Predictors of Postdischarge Surgical Recovery Following Laparoscopic Sacrocolpopexy: A Prospective Longitudinal Study. Presented at AUGS 38th Annual Scientific Meeting, October 3-7, 2017, Rhode Island Convention Center, Providence, RI. Female Pelvic Medicine and Reconstructive Surgery 2017, 23(5S1): S30.
12. Arunachalam D, **Heit M**, Hale DS. Impact of Postoperative Activity Instructions on Objective Measures of Physical Activity and Recovery. Presented at AUGS 39th Annual Scientific Meeting, October 9-13, 2018, Hyatt Regency Chicago, IL Female Pelvic Medicine and Reconstructive Surgery 2018, 24(5S): S35-36
13. Ju R, Guanzon A, Dewitt JD, Liu OY, **Heit M.** The Appropriateness of Referrals to A Urogynecological Practice. Presented at AUGS 39th Annual Scientific Meeting, October 9-13, 2018, Hyatt Regency Chicago, IL Female Pelvic Medicine and Reconstructive Surgery 2018,24(5S): S141
14. **Heit M**, Rand KL, Chen CX. “Significant Postdischarge Recovery” After Laparoscopic Sacrocolpopexy: Establishing Clinical Norms. . Presented at AUGS 39th Annual Scientific Meeting, October 9-13, 2018, Hyatt Regency Chicago, IL Female Pelvic Medicine and Reconstructive Surgery 2018, 24(5S): S36
15. Arunachalam D, Hale DS, **Heit M**. Correlation of Obstructed Defecation and Radiographic Diagnosis of Enterocele. Presented at AUGS 39th Annual Scientific Meeting, October 9-13, 2018, Hyatt Regency Chicago, IL Female Pelvic Medicine and Reconstructive Surgery 2018, 24(5S): S61.
16. Arunachalam D, Hale DS, **Heit M,** Impact of Postoperative Activity Instructions on Disease Specific Symptom Bother and Impact on Activities of Daily Living Following Pelvic Reconstructive Surgery. Presented at SGS 45th Annual Meeting, March 31 – April 3, 2019. AJOG 2019, 220 (3S): S692

**C. *Books, Chapters, Thesis, or Dissertations***

1. **Heit M.** Urogynecology. In Handbook of Primary Care in Ob-Gyn, Sanfilippo J, and Smith R (eds) Springer-Verlag, New York, NY.
2. Brubaker L., **Heit M**. Use and Care of the Pessary. In The Female Pelvic Floor: Disorders of Function and Support, Brubaker L and Saclarides T (eds) F.A. Davis Company, Philadelphia, PA.
3. **Heit M.** Preoperative Evaluation of Recurrent Urogynecology and Reconstructive Pelvic Surgery Disorders. In Operative Gynecology, Second Edition, Gershenson D, DeCherney A, Curry S, Brubaker L (eds) W.B. Saunderss Co., Orlando, FL.
4. **Heit M**. Detrusor Instability. In Gynecology for the Primary Care Physician, Stovall T, Ling F, (eds) Current Medicine. Philadelphia, PA.
5. **Heit M**. A Model for Explaining Differences in Incontinence Care Seeking (MEDICS) Project; Master’s Thesis. UMI Dissertation Services. Ann Arbor, MI
6. **Heit M.** Ethnicity as an Independent Predictor of Incontinence Care Seeking When Theoretical Modeling is Used. PhD dissertation.

**D. *Editorials, Special Articles and Book Reviews***

1. **Heit M**. Book Review; Female Urology, 2nd Edition, Edited by Schlomo Raz, *J Pediatric Adolesc Gynecol* 1997;10:227.
2. **Heit M**. Nonsurgical and Surgical Management of Fecal Incontinence and Pessary Use for Pelvic Organ Prolapse. In *Prolog Gynecology*, Fourth Edition (in Press).
3. **Heit M**. Book Review; Incontinence, First Edition, Edited by Lucas M, Emery S, Beynon J. *J Pediatric Adolesc Gynecol* 2001.

***E. Surgical Videos***

1. Ju R, Petrikovets A, **Heit M**. Suprapubic Catheters: Basics for the Female Pelvic Surgeon. Presented at SGS 45th Annual Meeting, March 31 – April 3, 2019. AJOG 2019, 220 (3S): S961-962.

**Presentations**

***National Meetings***

1. I) Pelvic floor support defects: Etiology, defect identification and treatment, and prevention. II) Urodynamic evaluation (workshop). Pelvic Floor Disorders: A Multidisciplinary Conference. Chicago, IL, October 1993.
2. The variability of levator ani muscle in the human female. American Uro-Gynecologic Society and the Uro-Dynamics Society annual scientific meeting; San Antonio, TX, November 1993.
3. The variability of levator ani muscle in the human female. Dept. of Obstetrics and Gynecology Annual Network and Resident Seminar. Rush Presbyterian St. Luke's Medical Center, Chicago, IL, April 1994.
4. Surgical management of stress urinary incontinence: Building blocks for success. West Virginia Section ACOG Greenbrier Hotel, White Sulpher Springs, West Virginia, August 18, 1994.
5. Urodynamic equipment: Making the right choice. Special Interest Group, Annual Meeting of ACOG, Orlando FL, May 1994.
6. Urinary Incontinence. Menopause Symposium. Alliant Health Systems and University of Louisville, September 1994.
7. Initial Evaluation of the incontinent female patient. Surgical management of stress urinary incontinence I&II. University of Louisville Intensive Ob/Gyn Review Course, Chicago, IL, November 30, 1994.
8. Initial Evaluation of the incontinent female patient. Greater Louisville Association of Nurses. Women's Pavilion Health and Resource Center, Alliant Health Systems. March 21, 1995.
9. Initial Evaluation of the incontinent female patient. Surgical management of stress urinary incontinence Primary Care in Gynecology, University of Louisville, April 26, 1995.
10. Episiotomy: To Cut or Not to Cut, That is the Question. 21st Annual High Risk Pregnancy Meeting. University of Louisville, April 28, 1995.
11. Genuine stress incontinence; choosing the correct surgery. Special Interest Group, Annual Meeting of ACOG, San Francisco, CA, May 1995.
12. I) Pelvic Floor Anatomy, II) Clinical Evaluation of Urinary Incontinence; III) Management of Urinary Incontinence. University of Louisville Intensive Ob-Gyn Review and Update, June 1995.
13. Management of Recurrent Stress Urinary Incontinence; What’s New. Kentucky Medical Association Annual Clinical Meeting, Section of Ob/Gyn. Lexington, KY, September 19, 1995.
14. I) Fecal Incontinence and Constipation II) Evaluation of Functional Disorders of Bowel and Bladder. 63rd Annual Convention and Primary Care Course, American College of Osteopathic Ob/Gyn. San Antonio, Texas, March 21, 1996.
15. Endourology. Advanced Ultrasound and Endoscopic Surgery Course, Alliant Health Systems and University of Louisville, April 22-23, 1996.
16. Urinary Incontinence Symposium. Women’s Pavilion and the Alliant Health System. Jefferson Mall, Louisville, KY, May 1996.
17. Pelvic Organ Prolapse: New Approaches to Diagnosis and Management, Continuing Medical Education Program, Community Methodist Hospital Boardroom Henderson, KY, September 9, 1996.
18. Defecography Invited Speaker for Luncheon Discussion AUGS Annual Clinical Meeting, New Orleans, LA, October 1996.
19. Pelvic Organ Prolapse: Diagnosis and Management. Invited Speaker, Alliant Adult Service Medical Staff Symposium, December 6, 1996.
20. Non-surgical Treatments for Pelvic Relaxation. The Ninth Annual Conference Toward Excellence in Primary Care and Midwifery. The Kentucky Coalition of Nurse Practitioners/Nurse Midwives. The Galt House Hotel, Louisville, KY, April 9-12, 1997.
21. Primary Care Issues in Women’s Health. I. Office Evaluation of Urinary Incontinence. II. Evaluation and Management of Fecal Incontinence. Twenty-Third Annual High Risk Pregnancy Course.
22. Management of Suspected Urologic Injury at the Time of OB/GYN Surgery. Sponsored by Alliant Health.
23. System in conjunction with University of Louisville School of Medicine, Department of Obstetrics and Gynecology, The Seelbach Hotel, Louisville, KY, April 21-26, 1997.
24. Urinary Incontinence: Nonsurgical management of the incontinent female patient. Clinical symposia, Alliant Health Systems, Louisville, KY, August 1997.
25. “You Need a New Hammer, said the Nail”. Urinary Incontinence: Research Issues and Opportunities Sponsored by NIDDK and ORWH, NIH Natcher Conference Center Bethesda, MD, Jan 23-24,1998.
26. New Approaches to the Evaluation and Management of Pelvic Organ Prolapse. East Tennessee Ob/Gyn Society, Knoxville, TN, March 12, 1998.
27. Evaluation of Urinary Incontinence. Twin Lakes Regional Medical Center, Leitchfield, KY. June 22, 1998.
28. Instructor, Advanced Workshop on Gynecologic Laparoscopic Anatomy and Surgery on Unembalmed Cadavers. Sponsored by the American Association of Gynecologic Laparoscopists in Affiliation with the Department of Obstetrics and Gynecology and the Department of Anatomical Sciences and Neurobiology at the University of Louisville Health Science Center, September 18-19,1998.
29. I) Clinical Evaluation of Prolapse and What’s the POPQ II) Fecal Incontinence III) Constipation, Invited Speaker. 1998 ACOG District V Junior Fellow Annual District Meeting, Cleveland, OH, October 9-10,1998.
30. Urinary Incontinence. Invited Speaker. Menopause Symposium. Presented in conjunction with Alliant Medical Systems and the University of Louisville Department of Obstetrics and Gynecology, Marriott East Hotel, Louisville, KY, November 6, 1998.
31. Diagnosing and Managing Urinary Incontinence in the Young and Old. Twentieth Primary Care Review & ACLS for Family Practitioners and Internists, Sponsored by Jewish Hospital in cooperation with the University of Louisville Dept of Family & Community Medicine, Dept. of Internal Medicine and Jewish Hospital Primary Care, Jewish Hospital Rudd Heart and Lung Center, March 28-April 3, 1998.
32. New Approaches to Patients with Pelvic Floor Dysfunction and Pelvic Relaxation: Gifts, Gadgets and Gags. Primary Care Issues in Women’s Health, April 20-22,1998. Urinary Symptoms and Pregnancy. Twenty-Fourth Annual High Risk Pregnancy Postgraduate Course. Sponsored by Alliant Health System in conjunction with the University of Louisville Dept. of Ob/Gyn. Seelbach Hilton Hotel, April 23-25, 1998.
33. Managing Uterine Prolapse Twenty First Annual Primary Care Review & ACLS for Family Practitioners and Internists, Sponsored by Jewish Hospital in cooperation with the University of Louisville Dept. of Family & Community Medicine, Dept. of Internal Medicine and Jewish Hospital Primary Care, Jewish Hospital Rudd Heart and Lung Center, March 8, 1999.
34. I) Overactive Bladder II) Use of Pessaries and Pelvic Appliances. The Eleventh Annual Conference Toward Excellence in Primary Care and Midwifery. The Kentucky Coalition of Nurse Practitioners/Nurse Midwives. The Galt House Hotel, Louisville, KY, April 23-24, 1999.
35. Instructor, Advanced Workshop on Gynecologic Laparoscopic Anatomy and Surgery on Unembalmed Cadavers. Sponsored by the American Association of Gynecologic Laparoscopists in Affiliation with the Department of Obstetrics and Gynecology and the Department of Anatomical Sciences and Neurobiology at the University of Louisville Health Science Center, September 6-7, 1999.
36. Evaluation and Management of the Overactive Bladder. Grand Rounds, Wright State University, Department of Ob/Gyn. Miami Valley Hospital, January 12, 2000.
37. New Technologies in the Management of Stress Urinary Incontinence. Twenty Second Annual Primary Care Review & ACLS for Family Practitioners and Internists, Sponsored by Jewish Hospital in cooperation with the University of Louisville Dept. of Family & Community Medicine, Dept. of Internal Medicine and Jewish Hospital Primary Care, Jewish Hospital Rudd Heart and Lung Center, March 22, 2000.
38. Invited Speaker. Pelvic Floor Anatomy using Fresh Tissue Cadavers. Bard Urological Division National Sales Meeting, 2001.
39. Invited Speaker. Panel discussion on Diagnostic Imaging in Urogynecology-Ultrasound. American Urogynecology Society Annual Clinical Meeting, 2001.
40. Invited Speaker. Panel discussion on the New Anti-Incontinence Procedures: What’s the Evidence – Bone Anchors. American Urogynecology Society Annual Clinical Meeting, 2001.
41. Invited Speaker. I) Childbirth Injuries to the Pelvic Floor II) Evaluation Management of Fecal Incontinence. The Henry Rappold Annual Symposium on Endoscopy and Advanced Gynecologic Surgery, St. Luke’s Hospital, Chesterfield, MO, September 14, 2002.
42. Invited Speaker. I) Writing a Study Protocol and Manual II) Writing a Manuscript for Publication. AUGS Fellow Research Retreat, Anaheim, CA, March 3, 2003.
43. Invited Speaker. Federal Regulations for Drugs and Surgical Devices. Panel Discussion, 2003 SGS Annual Clinical Meeting, Anaheim, CA, March 6, 2003.
44. Invited Speaker AUGS Research Retreat. Multicenter clinical trial development Supported by the AUGS society. Fairfax, Virginia May 2003.
45. Invited Speaker. University of Texas Southwestern 1) Manuscript Reading and Writing. 2) Evaluation and Management of Fecal Incontinence. 3) Evaluation and Management of Nocturia. Dallas, TX. July 23, 2003.
46. Invited Speaker ACOG District V 2003 Annual Clinical Meeting. 1) Childbirth Injuries to the Pelvic Floor Dearborn, MI November 24-25, 2003.
47. Chair, Globel Congress of Gynecologic Endoscopy, AAGL 2003 Annual Clinical Meeting Postgraduate Course. Diagnostic Studies and Non-Surgical Management of Urinary and Anal Incontinence. 1) Childbirth Injuries to the Pelvic Floor, 2) Constipation: What Ob/Gyn’s Need to Know. Las Vegas, NV, November 19-22, 2003.
48. Invited Speaker. Greater Baltimore Medical Center. Grand Rounds. The Evaluation and Management of Nocturia. Baltimore, MD, February 6, 2004
49. Invited Speaker. Annual MacKenzie Lecture. Mid-Urethral Slings; What does the Medical Evidence Tell Us. St. Mary’s Hospital, Evansville, IN. February 12, 2004.
50. Invited Speaker. Washington Medical Center. Grand Rounds. The Evaluation and Management of Nocturia. Baltimore, MD, April 13, 2004.
51. Invited Speaker. I) Case Control and Cohort Study Design. II) Writing a Study Protocol and Manual III) Writing a Fundable Grant/Grantsmanship. AUGS Fellow Research Retreat, Chicago, IL May 7-9, 2004
52. Invited Speaker. Methodist Hospital/Indiana University Medical Center Grand Rounds. Department of Ob/Gyn The Evaluation and Management of Nocturia. Indiannapolis, IN May 12, 2004.
53. Invited Speaker. 2004 AUGS postgraduate research course: Primer on Clinical Research. 1) How to write a study manual. 2) Writing your abstracts & manuscripts to get them accepted. 3) Computer programs for databases; EpiInfo v6.0. AUGS Fellow Research Retreat, Chicago, IL May 7-9, 2004\
54. Invited Speaker ACOG District V Junior Fellow ACM. Electronic Medical Records. September 18, 2004.
55. Invited Speaker I) Writing a readable / fundable grant, grantsmanship II) Sample size, power calculations, use of preliminary data III) Writing a research plan and a study manual. SGS Fellows’ Research Retreat Strategies for Securing Financial Support for Research, April 2, 2005
56. Invited Discussant, Fecal Incontinence in U.S. Women: A Population-Based Study" J. Melville, ,K. Newton and D. Fenner. Thirty-First Annual SGS Meeting Rancho Las Palmas Marriott Resort & Spa, April 4-6, 2005 Rancho Mirage, California
57. Invited Speaker. 1) The Evaluation and Surgical Management of Urinary Incontinence-not your grandms’s “bladder tack” any longer, Part One: Evaluation. 2) The Evaluation and Surgical Management of Urinary Incontinence-not your grandms’s “bladder tack” any longer, Part Two: Surgical Management. Indiana Section ACOG Meeting. January 18, 2006
58. Invited Speaker. 2006 AUGS postgraduate research course: Primer on Clinical Research. 1) Which statistical test do I use. 2) Sample size & power. 2006 SGS Annual Clinical Meeting. Tucson, AZ, April 2, 2006
59. Invited Discussant, Bowel Symptoms in Women Planning Surgery for Pelvic Organ Prolapse. CS Bradley for the PFDN Thirty-Second Annual SGS Meeting, April 3-5, Tucson, AZ
60. Invited Speaker. What’s Your Recovery Time? Indiana University/Purdue University Medical Center. Department of Ob/Gyn Grand Rounds. May 2, 2007.
61. Invited Speaker. Educational Multi-Center Research Initiative. AUGS 28th Annual Scientific Meeting. Hollywood, FL. Sept 27-29, 2007
62. Invited Speaker. Surgical Debate; Robotic v Straight Stick Laparoscopy for Minimally Invasive Pelvic Surgery 37th Thirty-Seventh Annual SGS Meeting, April 10-13th, 2011. San Antonio, TX
63. Invited Speaker. Surgical Debate; Is the Uterus a Victim and Should it be Removed During Pelvic Floor Surgery. AUGS Annual Clinical Meeting July 26, 2014
64. Invited Speaker, Debate: The Uterus Is The Victim And Should Be Preserved During Pelvic Floor Surgery. Favored Concurrent Hysterectomy At The Time Of Pelvic Floor Surgery. Joint AUGS/IUGA Annual Clinical Meeting, July 22-26, 2014, Washington DC
65. Invited Speaker, Grand Rounds,. What is My/Your Recovery Time? - A Shifting Paradigm. George Washington University School of Medicine Washington, DC. 03/16/2016.

***Local Meetings***

1. The politics of prolapse. Department of Obstetrics and Gynecology Grand Rounds, Washington University Medical Center, St. Louis, MO, April 1993.
2. Constipation. Department of Obstetrics and Gynecology Grand Rounds, Christ Hospital, Oaklawn, IL, March 1994.
3. The initial evaluation of the incontinent female patient. Department of Family and Community Medicine Grand Rounds, Jewish Hospital, Louisville, KY, August 5, 1994.
4. The initial evaluation of the incontinent female patient. Department of Ob/Gyn Grand Rounds. Norton's Hospital, Louisville, KY, October 4, 1994.
5. The initial evaluation of the incontinent female patient. Department of Ob/Gyn Grand Rounds.

 Owensboro/Daviess Community Hospital, Owensboro, KY, October 20, 1994.

1. Surgical Management of Uterovaginal Prolapse; Level I Support Defects. Grand Rounds, Dept. of Ob/Gyn. University of Louisville, October 3, 1995.
2. Initial Evaluation of the Incontinent Female Patient, Grand Rounds, Dept. Of Ob/Gyn. Paoli Hospital, Paoli, IN, May 1996.
3. The politics of prolapse. Grand Rounds. Baptist East Hospital, Louisville, KY, June 1996.
4. Evaluation of the Incontinent Female Patient, Grand Rounds, Regional Medical Center, Madisonville, KY,

 July 11, 1996.

1. Pelvic Organ Prolapse: Diagnosis and Management. Invited Speaker, Regional Medical Center. Medical Staff Grand Rounds, January 10, 1997.
2. Evaluation and Management of Anterior Vaginal Wall Support Defects. University of Louisville Grand Rounds, January 14, 1997.
3. Urinary Incontinence. Invited guest. Sunday Health Watch. WAVE -TV, February 1997.
4. Urinary Incontinence. Invited guest. Call-in Show. WLEX-TV, March 21, 1997.
5. Dynamic Cystoproctograms: Their Role In The Evaluation Of Patients With Pelvic Organ Prolapse

 Grand Rounds Good Samaritan Hospital, Cincinnati, OH, October 8, 1997.

1. The Initial Evaluation and Management of the Incontinent Female Patient. Grand Rounds, University of Tennessee Medical Center at Knoxville, Dept. of Ob/Gyn, March 13, 1998.
2. Evaluation and Management of the Overactive Bladder. Grand Rounds, University of Louisville HSC, Dept. of Ob/Gyn, February 23,1999.
3. Incontinence Care Seeking. Grand Rounds, University of Louisville HSC, Dept. of Ob/Gyn, March 2000.
4. Pelvic Organ Prolapse. Invited guest. November 2001.
5. Evaluation and Management of Nocturia and Enuresis, University of Louisville’s 28th Annual Department of Obstetrics and Gynecology Postgraduate Course, April 2-5, 2003.
6. Invited Speaker Hardin Memorial Ob/Gyn Departmental Meeting “Reviewing the Medical Literature. July 19, 2004. Elizabethtown, KY
7. Co-Director, GI Motility and Neurogastroenterology present Update on Diagnosis and Management of Pelvic Floor Disorders, 1) Defining Pelvic Organ Prolapse Using New Definitions and Symptoms, 2) Sacral Neuromodulation in Overactive Bladder, Urinary Incontinence, and Fecal Incontinence. 3) Panal Discussin of Incontinence Cases and Overactive Bladder and Prolapse, March 7, 2015, IU Health Neuroscience Center, Goodman Hall Auditorium, Indianapolis, IN
8. Invited Speaker, Overview of Pelvic Operation for Obstructive Defecation. Presented at: Gastroenterology Motility Conference. 09/02/2015.
9. Invited Speaker Michael Heit and Janet Carpenter. Women's Pelvic Health Institute Promotion. Presented at: Methodist Hospital Task Core Presentation. 11/04/2015.

##### Research Funding

1. Title: Levator Ani Muscle Morphology and Innervation in Patients with Prior Abdominal vs. Vaginal Hysterectomy.

 Principal Investigator(s): **Michael Heit, MD**

 Co-investigator(s): Kathleen Kleuber, PhD., Dept. of Anatomy and Neurobiology

 Funding: University of Louisville Research Grant

 Amount: $10,000.00

 Project Period: 1996-

1. Title: Levator Ani Muscle Morphology and Innervation in Patients with Prior Abdominal vs. Vaginal Hysterectomy.

 Principal Investigator(s): **Michael Heit, MD**

 Co-investigator(s): Kathleen Kleuber, PhD., Dept. of Anatomy and Neurobiology

 Funding: Presidents Research Proposal on Women

 Amount: $3,000.00

 Project Period: 1996-

1. Title: A Preliminary Comparison of Vaginal Template and Modified Burch Colposuspension for Suture Placement in Retropubic Urethropexy

 Co-Investigators: Ronald Levine MD, **Michael Heit, MD**, Resad Pasic, MD

 Funding: UroMed Corporation

 Amount: $13,800.00

 Project Period: 1997- 1998

1. Title: Retrospective Analysis of the Use of Alloderm for the surgical treatment of stress incontinence

 Principal Investigator(s): **Michael Heit, MD**

 Funding: Boston Scientific Microvasive

 Amount: $2000.00 plus $50.00/patient enrolled

 Project Period: 1999-present

1. Title: Extracorporeal Electromagnetic Innervation Therapy to Restore Pelvic Floor Integrity Following Childbirth: A prospective, double-blinded, controlled trial

 Principal Investigator(s): P Culligan

 Co-Investigator: **Michael Heit, MD**

 Funding: Neotonus, Inc.

 Amount: $128,009

 Project Period: 2000-present

1. Title: Randomized trial of Synthetic vs. Organic Allograft for Sacral Colpopexy

 Principal Investigator(s): **Michael Heit, MD**

 Co-Investigator: P Culligan

 Funding: Mentor Corp.

 Amount: $119,500

 Project Period: 2000-present

1. Title: A Model for Explaining Differences in Incontinence Care Seeking

 Principal Investigator(s): **Michael Heit, MD**

 Co-Investigator: Susan Kelly

 Funding: NICHD

 Amount: $144,000

 Project Period: September 2001 – September 2003

1. Title: CARE Study, Pelvic Floor Treatment Network

Subcontracted Investigator: **Michael Heit, MD**

 Funding: NICHD

 Amount: $180,000

 Project Period: September 2003 – present

1. Title: CAPS Study, Pelvic Floor Treatment Network

Subcontracted Investigator: **Michael Heit, MD**

 Funding: NICHD

 Amount: $58,000

 Project Period: September 2003 – January 2005

1. Title: Multicenter Assessment of TRansdermal therapy In overactive bladder with oXybutynin TDS

(MATRIX)

Principal Investigator: **Michael Heit, MD**

Funding: Watson Laboratories, Inc.

Amount: $3,300

Project Period: May 2004 – present

1. Title: A Clinical Evaluation of the GYNECARE TVT Obturator System for Treatment of Stress Urinary

Incontinence

 Principal Investigator: **Michael Heit, MD**

 Funding: ETHICON, Inc.

 Amount: $28,200

 Project Period: February 2005 – June 2006