

CURRICULUM VITAE

Thomas Bossmar, MD, Ph.D.

Personal data:

Born September 4, 1957, in Halmstad, South Sweden. Since August 12, 1989, married with Lena, (Associate Site Start-Up Team Lead, Quintiles clinical operations, Lund, Sweden). Three children, a son of age 19, a daughter of age 17 and their little brother who is 9 years old. Our avocations are culture events, sports and out-door life.

Education:

1973-1976 College, Halmstad, Sweden , the program of Nature Sciences.
1976-1982 University of Lund, Sweden, Faculty of Medicine.

Degrees:

1982 Doctor of Medicine (MD), University of Lund.
1996 Doctor of Medical Science (Ph.D.), University of Lund.

Professional experience:

1980-1981 Locum tenens , Department of Radiology, Jonkoping, Sweden (3 months).
1982 Locum tenens, Department of Obstetrics and Gynaecology, Central Hospital, Kalmar, Sweden (9 months).
1983-1984 Internship, Central Hospital, Kalmar.
1985-1986 Senior House Officer, Department of Surgery, Central Hospital, Kalmar.
1986 Senior House Officer, Department of Anaesthesiology, Central Hospital, Kalmar (6 months).
1986-1989 Senior House Officer, Department of Obstetrics and Gynaecology, Central Hospital, Kalmar.
1989 Specialist in Obstetrics and Gynaecology.
1989-1990 Senior Registrar, Department of Obstetrics and Gynaecology, Central Hospital, Kalmar.
1990-1996 Senior Registrar, Department of Obstetrics and Gynaecology, University Hospital, Lund, Sweden.
1996-1999 Consultant, Department of Obstetrics and Gynaecology, University Hospital, Lund.
1998 Temporary Consultant, Department of Gynaecologic Oncology, University Hospital, Lund, (4 months).
1999 Temporary Consultant, Department of Gynaecologic Oncology, The Norwegian Radium Hospital, Oslo, Norway (3 months).
1999- 2004 Senior Consultant and Chief of the Gynecological ward at the Department of Obstetrics and Gynaecology, University Hospital, Lund.
Febr. 2003 Locum Consultant, Dep. Ob & Gyn, Tawam Hospital, Al Ain, UAE
2004-2006 Associate Professor, Senior Consultant, Department of Obstetrics and Gynecology, Faculty of medicine and health sciences, UAE University, Al Ain, United Arab Emirates.

2006- Senior Consultant Department of Obstetrics and Gynecology, University Hospital, Lund, Sweden

Postgraduate courses:

- 1990 Surveillance of the foetus during pregnancy and delivery, March 19-21, Department of Obstetrics and Gynaecology, Lund, Sweden.
- 1991 Practical obstetrics, October 15-17, Department of Obstetrics and Gynaecology, Lund, Sweden.
- 1993 Laparoscopic surgery, May 10-12, Department of Obstetrics and Gynaecology, Huddinge, Stockholm, Sweden.
- 1995 Advanced laparoscopic gynaecological surgery, November 28-29, European Surgical Institute, Stade, Hamburg, Germany.
- 2000 Hysterectomy & pelvic bottom surgery into the new millennium, February 8-9, RCOG, London
- 2002 Practical course in vaginal hysterectomy, May 22-24, Department of Obstetrics and Gynecology, Helsingborg, Sweden
- 2003 10th workshop about laparoscopic and vaginal surgery in gynecologic oncology, June 30 - July 4, Toulouse Lyon, France.

Consultant activities:

- Since 1992 Consultant in private practice (Obstetrics and gynaecology).
- Since 1993 Medical advisor and educator at several pharmaceutical companies regarding uterine physiology and development of neuropeptide antagonists. Operations in several European countries.
- Since 1994 Investigator/Co-investigator of six clinical trials (phase I, II and III) on oxytocin/vasopressin antagonists for potential use in Obstetrics and Gynaecology.
- Since 1996 Consultant in Obstetrics and Gynaecology at several hospitals, Norway.

Administration:

- 1992-1994 Initiated the advanced laparoscopic surgery and organised this activity during the build-up phase at the Department of Obstetrics and Gynaecology, University Hospital, Lund, Sweden.
- Since 1991 Participation in organising the courses for medical students at the Department of Obstetrics and Gynaecology, University of Lund.
- Since 1995 Organising and designing the setting up of computerised models for *in vitro* experiments of myometrial contractility and *in vivo* measuring of uterine activity, Department of Obstetrics and Gynaecology, Lund. Application of software as a joint venture with Synectics AB, Stockholm, Sweden.
- 1995-2002 Participation in several leadership courses and advisory boards.
- Since 1999 Chief of the Gynaecologic ward of the Department of Ob. and Gyn., Lund.

Academic teaching:

- Since 1990 Lectures for House Officers, medical students and nurses.
 Since 1992 Invited lectures on myometrial contractility at several hospitals and institutions.
 Since 1998 Tutor for a PhD student graduated June 13, 2003 (Margareta. Steinwall).
 2003 External examiner on the thesis "Myometrial receptors in rat parturition" by T. Engstrom, University of Copenhagen, Denmark, (March 7, 2003).
 2003 - 07 Teacher and organiser of eleven hands-on courses in laparoscopic surgery for specialists and trainees in gynecology and obstetrics. All courses were accredited by the Swedish Society of Obstetrics and Gynecology.
 2006- Director of studies for the registrar's programme at the Department of Obstetrics and Gynecology, University hospital, Lund, Sweden

Scientific positions:

- 1990-1996 Research Fellow, Department of Obstetrics and Gynaecology, University of Lund, Sweden.
 Since 1996 Assistant Professor, Department of Obstetrics and Gynaecology, University of Lund, Sweden.
 2004-2006 Associate Professor at the Department of Obstetrics and gynecology, Faculty of Medicine and Health Sciences, UAE University, Al Ain, United Arab Emirates

Membership:

- Since 1980 Member of Swedish Society of Medicine.
 Since 1985 Member of Swedish Society of Obstetrics and Gynaecology.
 Since 2000 Member of Nordic Society of Gynecologic oncology

Rewards etc.:

- 1996 Included in "Marqui's Who's Who in the World" 13th ed. (USA).
 1996 Included in "Dictionary of International Biography" 25th ed. (UK).
 June 1996 "Decree of Merit", The International Biographical Centre, Cambridge, UK.
 1996 Nominated for "Five Hundred Leaders of Influence" 5th ed. 1997, American Biographical Institute, North Carolina, USA.
 1996 Nominated for the award "Presidential Seal of Honor", American Biographical Institute, North Carolina, USA.
 1998 Included in "Marqui's Who's Who in the World" 14th ed. (USA).
 1998 Recruited for a position as "Clinical research director" in Sanofi Winthrop Paris, France.
 1999 Headhunted by Criteria AB as a candidate for a position as director of two companies in Lund, Sweden (Forskarpatent AB and Dignitana AB)
 1999 Included in "Marqui's Who's Who in the World" 15th ed. (USA).
 2001 Chairman, The Swedish Society of Medicine, annual meeting, Stockholm, Sweden.

Appendix: Scientific publications and assignments.
Research and clinical interests.

Lund, May 17, 2010.

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University Hospital
SE-221 85 Lund, SWEDEN

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Appendix

Original articles:

1. Casslén B., Lecander I., Bossmar T. & Åstedt B. Plasminogen activators and plasminogen activator inhibitors in blood and tumor fluids of patients with ovarian cancer. *Europ J Cancer* 1994;30A,No9:1302-09.
2. Bossmar T., Åkerlund M., Fantoni G., Szamatowicz J., Melin P. & Maggi M. Receptors for and myometrial responses to oxytocin and vasopressin in preterm and term human pregnancy. Effects of the oxytocin antagonist atosiban. *Am J Obstet Gyn* 1994;171:1634-42.
3. Bossmar T., Forsling M. & Åkerlund M. Circulating oxytocin and vasopressin is influenced by ovarian steroid replacement in women. *Acta Obstet Gynecol Scand* 1995;74:544-48.
4. Bossmar T., Fantoni G., Maggi M., Szamatowicz J., Laudanski T. & Åkerlund M. Receptor-mediated uterine effects of oxytocin and vasopressin in non pregnant women. *Br J Obstet Gynaecol* 1995;102:907-12.
5. Bossmar T., Rasmussen T. & Åkerlund M. Effect of the non-peptide, vasopressin V1a receptor antagonist SR 49059 and its enantiomer SR 49770 on isolated human myometrium. *Acta Obstet Gynecol Scand* 1996;75:516-19.
6. Bossmar T., Brouard R., Döberl A. & Åkerlund M. Effects of SR 49059, an orally active vasopressin V1a receptor antagonist on vasopressin-induced uterine contractions. *Br J Obstet Gynaecol* 1997;104:471-77.
7. Kostrzewska A., Laudanski T., Steinwall M., Bossmar T., Serradeil-Le Gal & Åkerlund M. Effects of the vasopressin V1a receptor antagonist, SR 49059, on the response of human uterine arteries to vasopressin and other vasoactive substances. *Acta Obstet Gynecol Scand* 1998;77:3-7.
8. Brouard R., Bossmar T., Fournié-Lloret D., Chassard D., & Åkerlund M. Effect of SR 49509, an orally active V1a vasopressin receptor antagonist, in the prevention of dysmenorrhoea. *Br J Obstet Gynaecol* 2000;107:614-19.
9. Steinwall M., Åkerlund M., Bossmar T. & Forsling M. Osmotically-induced release of vasopressin and oxytocin in non-pregnant women - influence of estrogen and progesterone. *Acta Obstet Gynecol Scand* 1998;77:983-87.
10. Åkerlund M., Bossmar T., Brouard R., Kostrzewska A., Laudanski T., Lemancewicz, Serradeil-Le-Gal C. & Steinwall M. Receptor binding of vasopressin and oxytocin antagonists and inhibitory effects on isolated myometrium from preterm and term pregnant women. *Br J Obstet Gynaecol* 1999;106:1047-1053.
11. Persson J., Bossmar T. & Wölner-Hanssen P. Laparoscopic colposuspension: a short term urodynamic follow-up and a three-year questionnaire study. *Acta Obstet Gynecol Scand* 2000;79:414-20 .
12. Steinwall M., Bossmar T., Åkerlund M. & Gaud C. Inhibitory effects of SR 49059 on oxytocin- and vasopressin-induced uterine contractions in non-pregnant women. *Acta Obstet Gynecol Scand* 2004;83(1):12-8.
13. Steinwall M., Bossmar T., Brouard R., Laudanski T., Le-Fur G., Olofsson P., Urban R, Wolff K. & Åkerlund M. The effect of relcovaptan (SR 49059), an orally active vasopressin V1a receptor antagonist, on uterine contractions in preterm labour. *Gynecol Endocrinol* 2005;20(2):104-109.
14. Steinwall M., Åkerlund M., Bossmar T., Nishii M. & Wright M. ONO-8815Ly, an EP2 agonist, that markedly inhibits uterine contractions in women. *Br J Obstet Gynaecol* 2004;111:120-124.

15. Steinwall M, Hansson S, Bossmar T, Larsson I, Pilka R & Åkerlund M. Oxytocin mRNA content in the endometrium of non-pregnant women around midcycle. *Br J Obstet Gynaecol* 2004;111:266-270.
16. Bossmar T, Osman N, Zilahi, E, El-Haj M, Nowotny N, Conlon M. Expression of the oxytocin gene but not the vasopressin gene in the rat uterus during pregnancy; influence of estradiol and progesterone. *J Endocrinol* 2007;193(1):121-126.
17. Persson J, Kannisto P, Bossmar T. Robot-assisted abdominal laparoscopic radical trachelectomy. *Gynecol Oncol* 2008;111:564-567.
18. Persson J, Reynisson P, Borgfeldt C, Kannisto P, Lindahl B, Bossmar T. Robot assisted laparoscopic radical hysterectomy and pelvic lymphadenectomy with short and long term morbidity data. *Gynecol Oncol* 2009;113:185-190.
19. Darlin L, Persson J, Bossmar T, Lindahl B, Kannisto P, Måsbäck A, Borgfeldt C. The sentinel node concept in early cervical cancer performs well in tumors smaller than 2 cm. *Gynecol Oncol* 2010

Review articles

1. Bossmar T. Treatment of preterm labor with the oxytocin and vasopressin antagonist Atosiban. *J Perinat Med* 1998;26:458-465

Case reports

1. Rizk DE, Mohammed KH, Joshi SU, Al-Shabani AY, Bossmar TR. A large clitoral epidermoid inclusion cyst first presenting in adulthood following childhood circumcision. *J Obstet Gynaecol* 2007;27(4):445-448.
2. Anderberg M, Bossmar T, Arnbjornsson E, Isaksson J, Persson J. Robot-assisted laparoscopic hemihysterectomy for a rare genitourinary Malformation with Associated Duplication of the Inferior Vena Cava – A Case Report. *Eur J Pediatr Surg* 2009;

Chapters

1. Åkerlund M., Bossmar T., Brouard R. & Steinwall M. Evidence for an involvement of vasopressin in mechanisms or primary dysmenorrhea and effect of the non-peptide vasopressin V1a receptor antagonist, SR 49059, on the uterus of non-pregnant women. *In: Zingg et al. Editors. Vasopressin and Oxytocin. Plenum Press, New York, 1998.*

Supplement

Kristensen G, Bossmar T, Nordal R, Baeklandt M. Uterine and ovarian carcinosarcoma. The experience from the Norwegian Radium hospital during a 20 year period. *Int J Gynecol Cancer* 2002;12(5):627 (abstract UT0005)

Doctoral thesis:

Oxytocin and vasopressin in uterine activity - Receptor-mediated agonism and antagonism with special regard to the aetiology and treatment of preterm labour and primary dysmenorrhoea. Date of issue: June 15, 1996.

Tutor

Co - tutor for PhD Margareta Steinwall – dissertation June 13, 2003 on the thesis "Involvement of vasopressin and oxytocin in the regulation of human uterine activity - studies on pharmacological effects of vasopressin V1a antagonists and of an EP2 agonist".

External examiner

March 07, 2003 on the thesis “Myometrial receptors in rat parturition” by Thomas Engström, Panum institute, University of Copenhagen, Denmark.

Grants

1. 65 000 SEK during 2003 for the project “Treatment of uterine fibroids by arterial embolization of the uterine artery”. Sponsored by Region Skåne, Lund, Sweden.
2. 80 000 SEK (40 000 Dh) year 2004 – 2005 for the project oxytocin and vasopressin receptors in rat myometrium. Sponsored by Faculty of Medicine and Health Sciences, The University of United Arab Emirates, Al Ain, UAE.

Scientific public relations

January 2002 - April 2003 employed on time share basis (25%) by the University of Lund, Sweden for promotion of research inventions.

Invited speaker

1. Bossmar T. Treatment of preterm labor with the oxytocin antagonist Atosiban. *Extending Horizons of Research in Prematurity, September 18th and September 19th 1998, Berlin, Germany.*
2. Bossmar T. Robotic assisted laparoscopic surgery. *Hot topics in Obstetrics & Gynecology, NFOG Educational Board, October 4 – October 6 2007, Helsinki, Finland*

Chairman

The annual meeting of Swedish Society of Medicine, 28-30 November, 2001, Stockholm, Sweden.

Abstracts

1. Bossmar T., Ekström P. & Åkerlund M. Dysmenorrhoea - a need for pain?
Day of research, University of Lund, Medical faculty, nov. 6-7, 1990, Lund, Sweden.
2. Bossmar T. Oxytocin and vasopressin receptors in human myometrium. *The Swedish medical council's group of research in reproduction, oct. 15, 1992, Malmö, Sweden*
3. Bossmar T., Fantoni G., Maggi M., Melin P., Szamatowicz J. & Åkerlund M.
Oxytocin- Vasopressin receptors and myometrial effects in human labour preterm and at term. *The annual meeting of Swedish Society of Medicine, December 1-3, 1993, Stockholm, Sweden.*
4. Melin P., Aurell C-J., Nilsson A., Johansson E., Lawitz K., Berdén L., Abbe-Nilsson M., Ekholm K., Hansson C., Johansson B., Nylén A., Ahlm-Söderberg C., Olsson H., Bossmar T., Åkerlund M., & Trojnar J. Novel oxytocin peptide antagonists - candidates for non-parenteral use in preterm labour. *Hanseatic Endocrine Conference, Oxytocin - cellular and molecular approaches in medicine and research, April 30 - May 4, 1995, Stade, Germany.*
5. Bossmar T., Fantoni G., Maggi M., Szamatowicz J., Laudanski T. & Åkerlund M.
Receptor-mediated uterine effects of oxytocin and vasopressin in non pregnant women. *4th European Congress on prostaglandins and other locally active factors in reproduction. May 22-25, 1996, Stockholm, Sweden.*
6. Persson J., Bossmar T. & Iosif CS. Clinical and urodynamic outcome of laparoscopic Burch colposuspension. *International Congress on Gynecological Endoscopy, June 7-8, 1996, Paris, France.*
7. Bossmar T., Åkerlund M., Brouard R. & Döberl A. Effects of an orally active vasopressin-antagonist on uterine contractions in women. *The annual meeting of Swedish Society of Medicine, November 27-29, 1996, Stockholm, Sweden.*
8. Bossmar T. & Åkerlund M. Effect of the non-peptide vasopressin V1a receptor antagonist, SR 49059, on uterine contractility in non-pregnant women. *XV FIGO World Congress of Gynecology and Obstetrics, August 3-8, 1997, Copenhagen, Denmark.*
9. Åkerlund M. & Bossmar T. Evidence for an involvement of vasopressin in mechanisms of primary dysmenorrhea. *World Congress on Neurohypophysial Hormones, August 8-12, 1997, Montreal, Canada.*
10. Bossmar T., Åkerlund M., Steinwall M., Brouard R. & Döberl A. Effect of the non-peptide vasopressin V1a receptor antagonist SR 49059, on the uterus of non-pregnant women. *World Congress on Neurohypophysial Hormones, August 8-12, 1997, Montreal, Canada.*
11. Steinwall M., Bossmar T. & Åkerlund M. Effect of a potential substance in the treatment of dysmenorrhea, the vasopressin V1a antagonist SR 49059, on the human uterine artery. *The annual meeting of Swedish Society of Medicine, November 26-28, 1997, Stockholm, Sweden.*
12. Bossmar T. Treatment of preterm labor with the oxytocin antagonist Atosiban. *Extending Horizons of Research in Prematurity, September 18th and September 19th 1998, Berlin, Germany.*
13. Steinwall M., Bossmar T., Forsling M. & Åkerlund M. Influence of ovarian hormones on osmotically-induced vasopressin and oxytocin release. *The annual meeting of Swedish Society of Medicine, November 24-26, 1998, Gothenburg, Sweden.*
14. Steinwall M., Bossmar T., Forsling M. & Åkerlund M. Influence of ovarian hormones osmotically-induced vasopressin and oxytocin release. *World Congress on Neurohypophysial Hormones, August 28 - September 2, 1999, Edinburgh, Scotland.*
15. Åkerlund M., Bossmar T., Brouard R., Kostrzewska A., Laudanski T., Lemancewicz A,

- Serradeil-Le Gal C, Steinwall M. Receptor binding of oxytocin and vasopressin antagonists and inhibitory effects on isolated myometrium from preterm and term pregnant women. *World Congress on Neurohypophysial Hormones, August 28 - September 2, 1999, Edinburgh, Scotland.*
16. Bossmar T, Brouard R, Chassars d, Fournie-Lloret D, Laporte V, Leenhardt AF, Åkerlund M. Effects of SR 49059, an orally active V1a receptor antagonist, in the prevention of dysmenorrhoea. *World Congress on Neurohypophysial Hormones, August 28 - September 2, 1999, Edinburgh, Scotland.*
 17. Steinwall M, Bossmar T, Gustavsson B, Hansson S, Åkerlund M. Are vasopressin and oxytocin paracrine hormones in the human uterus? *World congress of neurohypophysial hormones, September 8 – 12, 2001, Bordeaux, France.*
 18. Steinwall M, Bossmar T, Gustavsson B, Hansson S, Åkerlund M. Are vasopressin and oxytocin paracrine hormones in the human uterus? *The annual meeting of Swedish Society of Medicine, 28 – 30 november, 2001, Stockholm.*
 19. Steinwall M, Bossmar T, Åkerlund M. Can dysmenorrhoea and preterm deliveries be prevented? *Day of research, University of Lund, 5-6 November, 2002, Lund, Sweden.*
 20. Steinwall M, Åkerlund M, Bossmar T, Nishi N, Wright M. An EP2-agonist which markedly inhibits uterine contractions in non-pregnant women. *The annual meeting of Swedish Society of Medicine, 27-29 November, 2002, Gothenburg, Sweden.*
 21. Kristenssen G, Bossmar T, Nordal R, Baeklandt M, Tropé C. Uterine and ovarian carcinosarcoma. The experience from the Norwegian Radium Hospital during a 20 year period. *13th International meeting of The European Society of Gynaecological Oncology (ESGO), 6-10 April 2003, Brussels, Belgium*
 22. Bossmar T, Borgfeldt C, Kannisto P, Ottosen C, Persson J. Laparoscopic lymphadenectomy in gynecologic cancer. *The annual meeting of Swedish society of Medicine, 26-28 November 2003, Stockholm, Sweden.*
 23. Bossmar T. Robotic assisted laparoscopic surgery. *Hot topics in Obstetrics & Gynecology, NFOG Educational Board, October 4 – October 6 2007, Helsinki, Finland*
 24. Person J, Borgfeldt C, Kannisto P, Bossmar T. Robot-assisted abdominal laparoscopic radical trachelectomy. *XIX FIGO World Congress of Gynecology & Obstetrics, 4-9 October 2009, Cape Town, South Africa.*

Research interests and program:

1. Uterine physiology and regulation of myometrial contractility.
2. Studies on uterine receptors for oxytocin and vasopressin.
(In collaboration with research-groups in the Universities of Bialystok, Poland and Florence, Italy)
3. Studies *in vitro* and *in vivo* on effects on human myometrium and uterine vessels by novel oxytocin and vasopressin agonists and antagonists.
(In collaboration with pharmaceutical companies in Sweden and Paris/Montpellier, France).
4. Influence of osmolality and sexual steroids on secretion of oxytocin and vasopressin.
(In collaboration with a research-group at St Thomas's Hospital London, UK)

5. Clinical studies on improved treatment of preterm labour and primary dysmenorrhoea.
6. Further development of equipment for evaluation and measurement of uterine activity both *in vitro* and *in vivo*. (Eg. improved software, ultrasound, intrauterine pressure recordings by means of catheters etc.).
7. Studies on epidemiology and treatment of uterine carcinosarcoma. Material collected at the Norwegian radium hospital, Oslo, Norway.
8. Minimal invasive surgery, especially concerning incontinence surgery and applications in gynaecologic oncology. Robotic surgery.
9. Treatment of uterine fibroids by arterial embolization.

Clinical interests:

Active on senior level in both perinatal and gynaecological divisions. Second line on call duty. The main profile is general gynaecology and cancer surgery with a pronounced interest in minimal invasive surgery including e.g. laparoscopic radical hysterectomy, lymphadenectomy, laparoscopic incontinence procedures and robotic surgery. The last 10 years I have performed about 50 advanced laparoscopic operations annually. Besides this also experienced in open operative gynaecological oncology including Wertheim-Meigs operation and extended retroperitoneal surgery such as exenterations. Educated at a tertiary referral centre for gynecologic oncology.

