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12/08/2014

The main research interest : Clinical studies in:

- 1. Anorectal malformations**
- 2. Hirschsprung's disease**
- 3. Computer assisted surgery**
- 4. Gastrostomy in children**
- 5. Clinical research in Pediatric Surgery**

The project 1 – 4 all include dissertations from the Lund University

Anorectal malformations, publications I

- Stenström P, Hambreus M, Arnbjörnsson E, Örnö AK. Females born with anorectal malformation should deliver with caesarian section. Accepted for publication in Journal of Pediatric Surgery 2014-08.
- Stenström P, Kockum CC, Emblem R, Arnbjörnsson E, Bjørnland K. Bowel symptoms in children with anorectal malformation - a follow-up with a gender and age perspective. J Pediatr Surg. 2014 Jul;49(7):1122-30. doi: 10.1016/j.jpedsurg.2013.10.022. Epub 2013 Nov 7. PubMed PMID: 24952801.
- Stenström P, Granéli C, Salö M, Hagelsteen K, Arnbjörnsson E. Appendicostomy in preschool children with anorectal malformation: successful early bowel management with a high frequency of minor complications. Biomed Res Int. 2013;2013:297084. doi: 10.1155/2013/297084. Epub 2013 Sep 23. PubMed PMID: 24175287; PubMed Central PMCID: PMC3794643.
- Stenström P, Kockum CC, Benér DK, Ivarsson C, Arnbjörnsson E. Adolescents with anorectal malformation: physical outcome, sexual health and quality of life. Int J Adolesc Med Health. 2014;26(1):49-59. doi: 10.1515/ijamh-2012-0111. PubMed PMID: 23633464.
- Stenström P, Clementson Kockum C, Arnbjörnsson E. Rectal atresia-operative management with endoscopy and transanal approach: a case report. Minim Invasive Surg. 2011;2011:792402. doi: 10.1155/2011/792402. Epub 2011 Apr 21. PubMed PMID: 22091364; PubMed Central PMCID: PMC3195957.

Anorectal malformations, publications II

- Arnbjörnsson E, Laurin S, Mikaelsson C. Computed tomography of ano-rectal anomalies. Correlation between radiologic findings and clinical evaluation of faecal incontinence. Acta Radiol. 1989 Jan-Feb;30(1):25-8. PubMed PMID: 914114.
- Arnbjörnsson E, Breland U, Kullendorff CM, Okmian L. Effect of loperamide on faecal control after rectoplasty for high imperforate anus. Acta Chir Scand. 1986 Mar;152:215-6. PubMed PMID: 3716742.
- Arnbjörnsson E, Kullendorff CM, Mikaelsson C, Okmian L, Rosén I. The value of physiotherapy for faecal continence after correction of high anal atresia. A clinical and electromyographic study. Acta Chir Scand. 1988 Jul-Aug;154(7-8):467-70. PubMed PMID: 3188794.
- **Dissertation:** [Anorectal malformations impact on early phases of live](#), Lund University, May 16, 2014.

Hirschsprung's disease, publications I

- Vult von Steyern K, Wingren P, Wiklund M, Stenström P, Arnbjörnsson E. Visualisation of the rectoanal inhibitory reflex with a modified contrast enema in children with suspected Hirschsprung disease. *Pediatr Radiol*. 2013 Aug;43(8):950-7. doi: 10.1007/s00247-013-2622-4. Epub 2013 Mar 6. PubMed PMID: 23463159.
- Granéli C, Stenström P, Börjesson A, Arnbjörnsson E. Development of Frequency of Stools over Time in Children with Hirschsprung Disease Posttransanal Endorectal One-Stage Pull-through. *Eur J Pediatr Surg*. 2014 May 28. [Epub ahead of print] PubMed PMID: 24870945.
- Gunnarsdóttir A, Sandblom G, Arnbjörnsson E, Larsson LT. Quality of life in adults operated on for Hirschsprung disease in childhood. *J Pediatr Gastroenterol Nutr*. 2010 Aug;51(2):160-6. doi: 10.1097/MPG.0b013e3181cac1b6. PubMed PMID: 20453676.
- Gunnarsdóttir A, Larsson LT, Arnbjörnsson E. Transanal endorectal vs. Duhamel pull-through for Hirschsprung's disease. *Eur J Pediatr Surg*. 2010 Jul;20(4):242-6. doi: 10.1055/s-0030-1252006. Epub 2010 Apr 14. PubMed PMID: 20393896.

Hirschsprung's disease, publications II

- Ornö AK, Lövkvist H, Marsál K, von Steyern KV, Arnbjörnsson E. Sonographic visualization of the rectoanal inhibitory reflex in children suspected of having Hirschsprung disease: a pilot study. *J Ultrasound Med*. 2008 Aug;27(8):1165-9. PubMed PMID: 18645074.
- Irene Ortiz-Rubio, María Pérez-Aguilera, Christina Granéli, Pernilla Stenström, Einar Arnbjörnsson. Literature review of the outcome after one-stage transanal endorectal pull-through procedure for Hirschsprung's disease in children. *Surgical Science*, 2013, 4, 258-262 doi:10.4236/ss.2013.45050 Published Online May 2013 (<http://www.scirp.org/journal/ss>)
- C. Lopera, P. Stenström, M. Anderberg and E. Arnbjörnsson, "Literature Review of the Frequency of Reoperations after One Stage Transanal Endorectal Pull-Through Procedure for Hirschsprung's disease in Children," *Surgical Science*, Vol. 3, No. 6, 2012, pp. 290-294.
- Sofie Örnö Ax, E. Arnbjörnsson, D. Gisselsson-Nord. A Comparison of Rectal Suction and Full Wall Biopsy in Hirschsprung's Disease. *Surgical Science*, 2014, 5, 15-19 Published Online January 2014 (<http://www.scirp.org/journal/ss>) <http://dx.doi.org/10.4236/ss.2014.51004>
- **Dissertation:** [Hirschsprung's Disease & Gastroesophageal Reflux](#), Lund University, May 5, 2010

Computer assisted surgery, publications I

- Hambræus M, Arnbjörnsson E, Anderberg M. A literature review of the outcomes after robot-assisted laparoscopic and conventional laparoscopic Nissen fundoplication for gastro-esophageal reflux disease in children. *Int J Med Robot.* 2013 Dec;9(4):428-32. doi: 10.1002/rcs.1517. Epub 2013 Jun 26. Review. PubMed PMID: 23801656.
- Anderberg M, Kockum CC, Arnbjörnsson E. Paediatric computer-assisted retroperitoneoscopic nephrectomy compared with open surgery. *Pediatr Surg Int.* 2011 Jul;27(7):761-7. doi: 10.1007/s00383-011-2860-1. Epub 2011 Feb 16. PubMed PMID: 21327553.
- Anderberg M, Kockum CC, Arnbjörnsson E. Paediatric robotic surgery in clinical practice: a cost analysis. *Eur J Pediatr Surg.* 2009 Oct;19(5):311-5. doi: 10.1055/s-0029-1233495. Epub 2009 Oct 14. PubMed PMID: 19830631.
- Anderberg M, Kockum CC, Arnbjörnsson E. Morgagni hernia repair in a small child using da Vinci robotic instruments--a case report. *Eur J Pediatr Surg.* 2009 Apr;19(2):110-2. doi: 10.1055/s-2008-1038500. Epub 2008 Jul 15. PubMed PMID: 18629776.
- Anderberg M, Kockum CC, Arnbjörnsson E. Robotic fundoplication in children. *Pediatr Surg Int.* 2007 Feb;23(2):123-7. Epub 2006 Oct 18. PubMed PMID: 17047900.

Computer assisted surgery, publications II

- Christina Granéli, Magnus Anderberg, Christina Clementson Kockum, Einar Arnbjörnsson. Outcome after computer-assisted fundoplication in children measured as pre- and postoperative anti-reflux and asthma medications use. Accepted for publication, Eur J Ped Sug 2014-07
- Dissertation: [Computer-assisted surgery in children](#), Lund University, September 10, 2010.

Gastrostomy in children, publications I

- 1: Lantz M, Hultin Larsson H, Arnbjörnsson E. Literature review comparing laparoscopic and percutaneous endoscopic gastrostomies in a pediatric population. *Int J Pediatr*. 2010;2010:507616. doi: 10.1155/2010/507616. Epub 2010 Mar 10. PubMed PMID: 20300186; PubMed Central PMCID: PMC2836526.
- 2: Lantz M, Larsson HH, Arnbjörnsson E. [Video-assisted technique is best when performing laparoscopic gastrostomy in children. Meta-analysis of the frequency of fistulas following two different methods]. *Lakartidningen*. 2009 Nov 11-17;106(46):3078, 3080-2. Swedish. PubMed PMID: 19998611.
- 3: Backman T, Sjövie H, Kullendorff CM, Arnbjörnsson E. Continuous double U-stitch gastrostomy in children. *Eur J Pediatr Surg*. 2010 Jan;20(1):14-7. doi: 10.1055/s-0029-1238316. Epub 2009 Oct 14. PubMed PMID: 19830661.
- 4: Norén E, Gunnarsdóttir A, Hanséus K, Arnbjörnsson E. Laparoscopic gastrostomy in children with congenital heart disease. *J Laparoendosc Adv Surg Tech A*. 2007 Aug;17(4):483-9. PubMed PMID: 17705732.
- 5: Backman T, Berglund Y, Sjövie H, Arnbjörnsson E. Complications of video-assisted gastrostomy in children with or without a ventriculoperitoneal shunt. *Pediatr Surg Int*. 2007 Jul;23(7):665-8. Epub 2007 May 9. PubMed PMID: 17487495.

Gastrostomy in children, publications II

- 6: Plantin I, Arnbjörnsson E, Larsson LT. No increase in gastroesophageal reflux after laparoscopic gastrostomy in children. *Pediatr Surg Int.* 2006 Jul;22(7):581-4. Epub 2006 Jun 1. PubMed PMID: 16807719.
- 7: Arnbjörnsson E, Backman T, Mörse H, Berglund Y, Kullendorff CM, Lökvist H. Complications of video-assisted gastrostomy in children with malignancies or neurological diseases. *Acta Paediatr.* 2006 Apr;95(4):467-70. PubMed PMID: 16720496.
- 8: Backman T, Arnbjörnsson E, Berglund Y, Larsson LT. Video-assisted gastrostomy in infants less than 1 year. *Pediatr Surg Int.* 2006 Mar;22(3):243-6. Epub 2006 Jan 10. PubMed PMID: 16402265.
- 9: Arnbjörnsson E, Larsson LT. [Video-assisted placing of a gastrostomy button in children. Ten years of experiences show advantages of the method]. *Lakartidningen.* 2005 Nov 14-20;102(46):3451-5. Swedish. PubMed PMID: 16335726.
- 10: Arnbjörnsson E, Backman T, Berglund Y, Kullendorff CM. Closure after gastrostomy button. *Pediatr Surg Int.* 2005 Oct;21(10):797-9. Epub 2005 Oct 21. PubMed PMID: 16180004.

Gastrostomy in children, publications III

- 11: Backman T, Arnbjörnsson E, Kullendorff CM. Omentum herniation at a 2-mm trocar site. *J Laparoendosc Adv Surg Tech A*. 2005 Feb;15(1):87-8. PubMed PMID: 15772487.
- 12: Arnbjörnsson E, Larsson LT, Lindhagen T. Complications of laparoscopy-aided gastrostomies in pediatric practice. *J Pediatr Surg*. 1999 Dec;34(12):1843-6. PubMed PMID: 10626869.
- 13: Mikaelsson C, Arnbjörnsson E. Single-puncture laparoscopic gastrostomy in children. *Pediatr Surg Int*. 1998 Nov;14(1-2):43-4. PubMed PMID: 9880694.
- 14: Arnbjörnsson E, Jakobsson I, Larsson LT, Mikaelsson C. Gastrostomy button causing perforation of the posterior gastric wall. *Acta Paediatr*. 1998 Nov;87(11):1203-4. PubMed PMID: 9846927.
- 15: Arnbjörnsson E, Larsson LT. [Laparoscopic button is a safe method in pediatric gastrostomy]. *Lakartidningen*. 1998 Sep 9;95(37):3919. Swedish. PubMed PMID: 9772775.

Gastrostomy in children, publications IV

- 16: Andersson L, Mikaelsson C, Arnbjörnsson E, Larsson LT. Laparoscopy aided gastrostomy in children. *Ann Chir Gynaecol*. 1997;86(1):19-22. PubMed PMID: 9181214.
- 17: Mikaelsson C, Arnbjörnsson E, Larsson LT. [The laparoscopy button. A new method with minimal surgical trauma in gastrostomy in children]. *Lakartidningen*. 1995 Sep 6;92(36):3237-8. Swedish. PubMed PMID: 7674719.
- 18: Backman T, Sjövie H, Kullendorff CM, Arnbjörnsson E. Correlation between the preoperative state of nutrition and the frequency of postoperative problems after video-assisted gastrostomy in children. *Gastroenterol Insights* 2009;1:e2.
- 19: Sjövie H, Larsson LT, Arnbjörnsson E. Postoperative gastrostomy site leakage correlated to the dimension of the gastrostomy button in children. *Gastroenterol Insights* 2010;2:e9.
- 20: Helén Sjövie, Malin Mellberg, Einar Arnbjörnsson. Postoperative complications in children undergoing video-assisted gastrostomy tube placement correlated to their age and diagnosis. *Gastroenterology Insights* 2012; volume 4:e5.

Gastrostomy in children, publications V

- Torbjörn Backman, Helene Sjöwie, Malin Mellberg, Anna Börjesson, Magnus Anderberg, Carl-Magnus Kullendorff, Einar Arnbjörnsson. Vomiting in children undergoing video-assisted gastrostomy tube placement. Accepted for publication in Surgery Research and Practice 2014
- **Book chapter:** Backman T, Mellberg M, Sjöwie H, Anderberg M and Arnbjörnsson E. Video-Assisted Gastrostomy in Children, Gastrostomy, Pavel Kohout (Ed.) 2011. Available from: <http://www.intechopen.com/articles/show/title/video-assisted-gastrostomy-in-children>.
- **Dissertation:** [Video assisted gastrostomy in children](#), Lund University, Mars 8, 2014.

Clinical research in Pediatric Surgery

Projects with few publications

- Appendicitis
- Sacroccocygeal teratoma
- Hypospadias surgery
- Gastroschisis