

## Curriculum Vitae - Odd Helge Gilja

**Citizenship:** Norway Born 1503-1962 in Bergen

**Address:** Private: Landåssvingen 28, N-5096 Bergen  
 Work: National Centre for Ultrasound in Gastroenterology, Dept of Medicine, Haukeland University Hospital; and Dept. of Clinical Medicine, University of Bergen.

E-mail: [Odd.Gilja@uib.no](mailto:Odd.Gilja@uib.no)  
[Odd.Gilja@helse-bergen.no](mailto:Odd.Gilja@helse-bergen.no)

**Telephone:** Private: 55 296148  
 Work: 55 972133 / 90079827

**Telefax:** Work: 55 972950

**Sivil status:** Married to May Elisabeth Pedersen (in 1993).  
 Children: Hanne Gilja (b. 1994)  
 Erik Gilja (b. 1996)  
 Martin Gilja (b. 1999)  
 Anders Gilja (b. 2001)



**ORCID: 0000-0002-0436-0383**

### Bibliometry as per 4/1 -2022:

#### TOTAL PUBLICATIONS AND BIBLIOMETRICS

- 475 Publications** totally during my career (abstracts excluded)
- 287** Scientific publications in international peer-reviewed journals (Web of Science), of which **113** from 2016-2021.
- 112** Books /Book chapters / Conference proceedings
- 75** Popular science / Multimedia publications
- 1** Dissertation

Google Scholar:			Web of Science:	
<u>Citation index</u>	All	Since 2017	Papers: 287	Sum of the Times Cited: 9402
<b>Citations</b>	<b>14400</b>	<b>8178</b>	H-index: 45	Citations excl self-citations: 8453
<b>H-index</b>	<b>57</b>	<b>41</b>	Average citations per paper: 32,76	
<b>i10-index</b>	<b>185</b>	<b>124</b>		

**Research Gate: RG Index 47,52 426 Research items 84.026 reads**  
**H-index: 52**

## **Education**

Master (Cand.med.) at University of Bergen 1988.

Autorisation as M.D. in 1990.

Post-graduate Program in Pedagogical Development 1996-97 at University of Bergen (UiB).

PhD (Dr. Med.) at University of Bergen 1997.

Specialist in Internal Medicine 2001.

Specialist in Gastroenterology 2002.

## **Work Experience**

Intern (House Officer) at SSSF in Førde. 1989.

Assistant Public Health Physician in Stryn commune. 1990.

Drafted Military Physician in Panserbataljonen, Div.6, Setermoen. 1990/91.

Resident at Dept of Medicine, Haukeland University Hospital (HUH). 1991/92 and 1997-2001.

Research Fellow at Christian Michelsen Research (CMR) A/S (NTNF). 1993.

Research Fellow at Dept. of Medicine A, University of Bergen. 1993 - 1997.

Director of Gilja Medisin & Multimedia since 1997.

Web-Consultant in NettDoktor.no AS. 1999-2000.

Consultant at Dept. of Medicine, Section of Gastroenterology, Haukeland University Hospital, 2001-2003.

Associate Professor at Institute of Medicine, University of Bergen, 2001-2002.

Professor at Institute of Medicine, University of Bergen from 2002-.

Executive Coordinator for MD's post-graduate education in Helseregion Vest, Norwegian Medical Association, 25% position, 2002-2014.

Senior Consultant, National Centre for Ultrasound in Gastroenterology, Haukeland University Hospital, 2003-2012.

Senior Consultant, Dept of Medicine, Section of Gastroenterology, Haukeland University Hospital, 2003- .

Director of MedViz, an R&D cluster in medical imaging and visualisation at HUH, UiB and CMR, 2007-2016.

Director, National Centre for Ultrasound in Gastroenterology, Haukeland University Hospital, 2012-.

Professor I, Dept. of Clinical Medicine, University of Bergen. 2021-.

## **Administrative and Leadership experience**

1. Member of board of IT-strategy at Faculty of Medicine, UiB. 1995-1996.

2. Member of The Research Committee at Faculty of Medicine, UiB. 1997.

3. Board member and web-master of Scandinavian Association for Gastrointestinal Motility. 1995-2001.
4. Executive secretary for the establishment of National Centre for Ultrasound in Gastroenterology. 1998-2001.
5. Board Member of Norwegian Society for Diagnostic Ultrasound in Medicine. 1999-2001.
6. Vice-president for the European congress Euroson 2003 in Copenhagen.
7. President of Norwegian Society for Diagnostic Ultrasound in Medicine. 2001-7.
8. National elected representative in Board of Directors in EFSUMB (European Federation of Societies in Ultrasound in Medicine and Biology). 2001-2011.
9. Chairman of the ICT-Committee at Institute of Medicine, UiB. 2004-8.
10. Chairman of the ICT Cooperative Committee between UiB, Faculty of Medicine and HUH. 2005-9.
11. Board member of EFSUMB's Education and Professional Standards Committee. 2005-7.
12. Deputy member of the Regional Ethic Committee in Helse Vest, 2005-9.
13. Board member of Fond I Steering Committee in The Norwegian Medical Association. 2005-10.
14. Board member of The Research Committee at Institute of Medicine, UiB. 2006-9
15. Chairman of EFSUMB's Education and Professional Standards Committee. 2007-11.
16. Board member of The Steering Committee at Institute of Medicine, UiB. 2009-
17. Member of National Strategy Group for Medical Imaging, 2009-11
18. Board member in the National consortium NorBioImaging 2010 -.
19. Member of Helse-Bergen's Strategy Policy Group 2011.
20. Member of EFSUMB's Publication Committee. 2011 - 2013.
21. Honorary Secretary of EFSUMB's Executive Bureau. 2011 -2013.
22. Member of Helse-Bergen's Research & Development Strategy Group 2012.
23. Chairman Section of Gastroenterology and Nutrition, Faculty of Medicine, UiB, 2013 - .
24. Vice-Chair (R&D), Department of Clinical Medicine, Faculty of Medicine, UiB, 2013-2020.
25. Member of World Federation of Ultrasound in Medicine and Biology's Sponsorship Committee/Collaboration Committee, 2013-2021.
26. President Elect in European Federation of Societies in Ultrasound in Medicine and Biology, 2013,-.
27. Board member of EFSUMB's Education and Professional Standards Committee. 2013-15.
  
28. Member of leadergroup in NORMIT (Norwegian centre for Minimally invasive Image guided Therapy and medical technologies). 2014-.
29. President of EFSUMB (European Federation of Societies in Ultrasound in Medicine and Biology ) 2015-17.
30. President of Euroson Congress, October 2016, Leipzig, Germany (>2000 participants).
31. Past-President EFSUMB (European Federation of Societies in Ultrasound in Medicine and Biology ) 2017-2019.
32. Member of World Federation of Ultrasound in Medicine and Biology's Congress Committee, 2017-2021.
33. President of Euroson Congress, Ljubljana, Slovenia, September 2017.
34. Member of World Federation of Ultrasound in Medicine and Biology's Communication Committee 2017-2021.
35. Board member of Fond I Steering Committee in The Norwegian Medical Association. 2017-.
36. Councillor of World Federation of Ultrasound in Medicine and Biology's 2017-2019.
37. Chairman of Education Committee in World Federation of Ultrasound in Medicine and Biology, 2017-2021.
38. President of Euroson Congress, Bergen 2020.

39. Vice-Chair (Innovation), Department of Clinical Medicine, Faculty of Medicine, UiB, 2013-2020.
40. Co-opted Councillor of World Federation of Ultrasound in Medicine and Biology's 2019-2021.
41. Leader of Centres of Education Task Force Group in WFUMB in Education Committee in World Federation of Ultrasound in Medicine and Biology, 2021-.
42. Member of Education Committee in World Federation of Ultrasound in Medicine and Biology, 2021-.

## **Scientific experience**

### **SUPERVISION**

#### *Master students*

1. Pål Brekke, Stud. med., Medisinsk avd. A, Universitetet i Bergen. 1997-1999. Three-dimensional ultrasonography for the study of antral meal accommodation in patients with functional dyspepsia.
2. Anne Marthe Fosshaug Jensen, Stud. med., Medisinsk avd. A, Universitetet i Bergen. 1997-2001. World Wide Web til medisinsk faglig fordypning innen gastroenterologi.
3. Mohammed Modar Al-Zubaydi. Ultralyd ved coeliaki. 2004-2006.
4. Erlend Nævdal. Ultrasonografi ved Crohn's sykdom. 2007-09.
5. Hilde Olset. Benign Residiverande Intrahepatisk Kolestase: Ei diagnostisk og terapeutisk utfordring. 2010-11.
6. Fredrik Saevig. CEUS quantification in Crohn's disease. 2012-2016.
7. Karoline Kjellsdotter Søvig. Ultrasound enhanced drug delivery in pancreatic cancer. From *in-vitro* to the clinic. 2013-2016.
8. Svein Inge Tonning Viken. Elastography. Impact of ROI-size and quality indicators in assessment of novel shear wave elastography methods in vitro- and in vivo. 2017,-.
9. Ingunn Furset. How to make a systematic approach (6+) to teaching abdominal ultrasound. UiB 2020-21.
10. Mia Laastad Bjørlykke. Developing a novel concept for pain analysis and communication based on a physical board. UiB 2021-

#### *PhD students*

1. Solomon Tefera, Cand.med., Medical Dept. A, University of Bergen. 2001. Gastric factors in the pathogenesis of reflux esophagitis.
2. Johan Lunding, Cand.med., Institute of Medicine, UiB, 2008. Gastric accommodation in Functional dyspepsia studied by barostat and ultrasonography.
3. Aymen B. Ahmed, Cand.med., Institute of Medicine, UiB. 2008. Ultrasound Strain Rate Imaging in functional dyspepsia. In vitro and clinical evaluation.
4. Dag Arne Lihaug Hoff, Cand.med., Institute of Medicine. UiB 2010. Esophageal pain sensation during bag distention – biomechanical or ischemic in origin?
5. Maja Mujic, Cand.scient. Institute of Medicine, UiB 2012. Molecular imaging for cancer diagnostics and targeted therapy.
6. Paolo Angeleli, Cand scient. Dept. of Informatics, UiB 2012. Visual exploration of human physiology.
7. Veronika Solteszova, Cand. Scient. Dept. of Informatics, UiB 2012. Perception-augmenting illumination.

8. Roald Havre, Cand.med. Institute of Medicine, UiB 2012. Tissue characterisation by ultrasound strain imaging.
9. Kim Nylund, cand.med., Dept of Clinical Medicine, UiB. 2013. Ultrasound in Crohn's disease.
10. Eirik Sjøfteland, Cand.med., Dept of Clinical Medicine, UiB. The diabetic gut. 2014.
11. Vernesa Dizdar, cand.med., Dept of Clinical Medicine, UiB. Giardiasis-induced Post-infectious IBS. 2008-. Planned disputas in 2018.
12. Friedemann Erchinger, Cand. Med., Dept of Clinical Medicine, UiB. Ultrasound of the pancreas after secretin stimulation. 2013-2018.
13. Trond Engjom, Cand.med., Dept of Clinical Medicine, UiB. Novel ultrasound methods in cystic fibrosis. 2011-2018.
14. Hilde von Volkmann, cand.med., Klinisk institutt 1, UiB. *GUCY2C* genotyper – Intestinal inflammasjon og dysmotilitet – en link til Crohns sykdom?. 2014 - 2018.
15. Endre Stigen, cand. scient. Dept. of Clinical Science. SDEPT - Sonoporation-Directed Enzyme Prodrug Therapy. 2014-2018 (terminated).
16. Fredrik Sævig, cand.med. University of Bergen. CEUS quantification in Crohn's disease. 2018-2020.
17. Elisabeth Steinsvik, cand.med., Haukeland University Hospital. Gastric dysmotility and visceral hypersensitivity – an ultrasound approach to functional GI disorders and diabetic gastroparesis. 2015-2021.
18. Anesa Mulabecirovic, cand.med., A novel non-invasive method to measure liver stiffness: Elastography of liver stiffness during Hepatitis C treatment with reference to a healthy cohort. 2016-2019.
19. Anders Batman Mjelle, cand.med., Haukeland University Hospital. Validation of liver elastography in patients with primary sclerosing cholangitis and healthy individuals. Normal values and correlation to fibrosis parameters. 2017-2021.
20. Ingrid Nordaas, cand.med. Haukeland University Hospital. The importance of structural changes and imaging in chronic pancreatitis. 2018-2021.
21. Dag Andre Sangnes, cand.med., Haukeland University Hospital. Ny diagnostikk og behandling av diabetisk gastroparese. 2018-.
22. Khanh Do-Cong Pham, cand.med., Klinisk institutt 1, UiB. Angiogenesis of colorectal cancer assessed by contrast-enhanced endoscopic ultrasonography and molecular techniques. 2014,-.
23. Katharina Lundervold, cand med. University of Bergen. Does Parkinson's disease start in the Gut? 2020-.
24. Tæraneh Jouleh, cand.med, University of Bergen. Ultrasound sonoporation of pancreatic adenocarcinoma. 2022-.
25. Andreas Gjengstø, cand.med, University of Bergen. A novel method for detecting Crohns disease using sonographic intestinal contrast. 2022-.

*Mentor for Post Doc researchers*

1. Georg Dimcevski 2010,-2014.
2. Spiros Kotopoulos. 2012-2016.
3. Mette Vesterhus. 2013,-2018.
4. Kim Nylund. 2013-2020.
5. Roald F Havre. 2015-2019.

**REFeree-SERVICE AND MEMBERSHIP IN EDITORIAL BOARDS**

1. European Journal of Ultrasound. 1996-2002.
2. Ultrasound in Medicine and Biology. 1996-.
3. Scandinavian Journal of Gastroenterology. 1997-.
4. Ultraschall / EJU. 1997-.
5. **Editorial Board:** Neurogastroenterology and Motility. 2001-2007.
6. Gut. 2002-.
7. **Editorial Board:** Ultraschall in der Medizin/Eur J Ultrasound. 2005-.
8. **Advisory Board:** SonoWorld Europe. 2006-.
9. **Editorial Board:** The Open Acoustic Journal. 2007-.
10. **International Advisory Board.** The Romanian Journal of Ultrasonography 2008-.
11. **Editorial Board.** World Journal of Gastrointestinal Endoscopy. 2009,-.
12. **Editorial Board.** Journal of Ultrasonography. 2010,-.
13. **Editor.** Best Practice Gastroenterologi. 2012,-.
14. **Editorial Board.** Journal of Ultrasound. 2016,-.

#### PRICES AND ACKNOWLEDGEMENTS

1. Norwegian Gastroenterological Society's Annual Price 1994 for best experimental scientific work.
2. Young Scientists Award. 3<sup>rd</sup> United European Gastroenterology Week 1994, Oslo
3. Young Scientist Research Prize. 4th United European Gastroenterology Week 1995, Berlin.
4. Young Investigators Award – 1.prize. Euroson-96 in Budapest.
5. Karla and Arne Oddmars Prize in Gastroenterology. 1997.
6. Presidential Poster. World Congress of Gastroenterology, Bangkok, Thailand 2002.
7. Elected to present the Euroson Lecture of EFSUMB 2006 in Bologna.
8. Guest professorship at University of Craiova, Romania. 2011-.
9. Dirk Bartz Prize 2013. Awarded at Eurographics 2013, Girona, Spain, the 34th Annual Conference of the European Association for Computer Graphics.
10. The Gheorge Badea Medal for outstanding achievements in the development and promotion of ultrasonography in Romania. 2015.
11. Honorary member of WFUMB Center of Excellence Timisoara. 2015.

#### SCIENTIFIC COMMITTEES

- Member of Scientific Programme Committee (Faculty) of Ultrasound Post-graduate courses at UEGW (United European Gastroenterology Week) 2004-2018.
- Member of evaluation committee for abstracts to European Gastroenterology Congress (UEGW) annually from 2006-2016.
- Member of International Faculty at Euroson School on contrast-enhanced ultrasound in Hanover (2008, 2009, 2010, 2013, and 2015)
- Chairman of Local Committee and International Faculty at Euroson School on contrast-enhanced ultrasound in Bergen 2010 and 2013.
- Member of International Scientific Committee at Euroson Congresses in 2009, 2010, 2012, 2013, 2014, 2015, 2016, 2017, 2018.
- Member of the Organising Subcommittee (Abdominal) at the World Congress (WFUMB) in Vienna 2011.
- Evaluator of 10 PhD dissertations, 2 in Denmark and 2 in Sweden.
- Chairman of Program Committees at 60 National post-graduate courses in Medical education.
- Chairman of 10 MedViz conferences in Bergen 2006-2016.

- Member of International Advisory Board for National Centre of 3D Ultrasound in Surgery, NTNU, Trondheim
- Member of evaluation committee for R&D applications to Helse Sør-Øst in 2008 and 2010.
- Member of evaluation committee for R&D applications to Helse Midt-Norge in 2015, 2016 and 2017.
- Member of evaluation committee for abstracts to EFSUMB European ultrasound congress (Euroson) annually from 2009.
- Course Director Euroson School in Riga, Latvia, June 2015.
- International Faculty at Euroson School in Munich, 2016.
- Course Director Euroson School in Moscow, Russia, May 2017.
- Member of Scientific Committee for world congress in WFUMB 2019, Melbourne, Australia.
- President. Euroson congress, June 2020 Bergen, Norway. Cancelled 3 months ahead due to the Covid-19 pandemic situation

#### **PRESENT RESEARCH ACTIVITIES AND FIELDS OF INTERESTS**

Ultrasonography, GI motility, Biomechanics of the GI tract, Contrast-Enhanced Ultrasound, Perfusion, Registration of dynamic image sequences, Advanced visualization, Medical imaging, Functional dyspepsia, Ultrasound microbubbles, Targeted diagnosis and treatment.

#### **RESEARCH PERIODS AT FOREIGN INSTITUTIONS**

- University of Washington, Seattle, USA. 1995. R&D in the labs of DE Strandness Jr and Roy W Martin. Development and testing of novel 3D ultrasound methods.
- University of Adelaide. 2007. R&D in the labs of M. Horowitz. Doppler ultrasound and 3D ultrasound in “nutritional imaging” of diabetic patients.

#### **LECTURES AT NATIONAL AND INTERNATIONAL CONFERENCES**

Over 260 lectures and over 150 as invited speaker.

#### **SCIENTIFIC PAPERS**

1. Gilja OH, Halstensen A, Digranes A, Mylvaganam H, Aksnes A, Høyby EA. Single-dose ofloxacin to eradicate tonsillopharyngeal carriage of *Neisseria meningitidis*. *Antimicrob. Agents Chemother.* 1993;37(9):2024-26.
2. Hausken T, Thune N, Matre K, Gilja OH, Ødegaard S, Berstad A. A new device shows enlarged antrum in dyspeptic patients. *Internat Gastroenterology Observer* 1993;1:5-6.
3. Gilja OH, Thune N, Matre K, Hausken T, Ødegaard S, Berstad A. In vitro evaluation of three dimensional ultrasonography in volume estimation of organs. *Ultrasound Med Biol* 1994;20(2):157-165.
4. Hausken T, Thune N, Matre K, Gilja OH, Ødegaard S, Berstad A. Volume estimation of the gastric antrum and the gallbladder in patients with non-ulcer dyspepsia and erosive prepyloric changes, using three-dimensional ultrasonography. *Neurogastroenterol. Mot.* 1994;6:263-270.
5. Gilja OH, Smievoll AI, Thune N, Matre K, Hausken T, Ødegaard S, A Berstad. In vivo comparison of 3D ultrasonography and Magnetic Resonance Imaging in volume estimation of human kidneys. *Ultrasound Med Biol* 1995;21:25-32.
6. Berstad A, Hausken T, Gilja OH, Thune N, Matre K, Ødegaard S. Volume measurements of the antrum by 3D-ultrasonography and flow measurements through the pylorus by duplex technique. *Dig Dis Sci* 1995;39(12):97-100.

7. Gilja OH, Hausken T, Ødegaard S, A Berstad. Monitoring postprandial size of the proximal stomach by ultrasonography. *J Ultrasound Med* 1995;14(2):81-89.
8. Mylvaganam H, Bjorvatn B, Gilja OH, Halstensen A, Digranes A, Høyby EA. Small-fragment restriction endonuclease analysis of *Neisseria meningitidis* carrier strains. *APMIS* 1995;103:147-153.
9. Undeland KA, Hausken T, Gilja OH, Ropert A, Galmiche JP, Berstad A. Gastric relaxation in response to a soup meal. A study using a barostat in the proximal stomach. *Scand J Gastroenterol* 1995;30:1069-1076.
10. Halstensen A, Gilja OH, Digranes A, Mylvaganam H, Aksnes A, Høyby EA, Rolstad T. Single dose ofloxacin in eradication of pharyngeal carriage of *Neisseria meningitidis*. *Drugs* 49;(Suppl. 2):399-400;1995.
11. Thune N, Gilja OH, Hausken T, Matre K. A practical method for estimating enclosed volumes using 3D ultrasound. *Eur J Ultrasound* 1996;3:83-92.
12. Ødegaard S, Nesje LB, Gilja OH, Hausken T, Berstad A, Eriksen R, Skarstein A, Cheung AHS, Wheeler M, Kimmey MB, Silverstein FE, Martin R. Høyfrekvent ultrasonografi av gastrointestinkanalens vegg. *Tidsskr. Nor. Laegefor.* 1996;116:1455-1459.
13. Leotta DF, Detmer PR, Gilja OH, Jong JM, Martin RW, Primozich JF, Beach KW, Strandness Jr, DE. Three-dimensional ultrasound imaging using multiple magnetic tracking systems and miniature magnetic sensors. *Proceedings IEEE Int. Ultrasonics Symp.*, Seattle, WA. USA, pp-1415-1418, 1995.
14. Gilja OH, Thune N, Matre K, Hausken T, Ødegaard S, Berstad A. In vitro evaluation of three dimensional ultrasonography in volume estimation of organs. In: Merritt CRB, ed. *The year book of ultrasound*. St. Louis: Mosby, 1995:363-364.
15. Gilja OH, Hausken T, Ødegaard S, Berstad A. Three-dimensional ultrasonography of the gastric antrum in patients with functional dyspepsia. *Scand J Gastroenterol* 1996;31:847-855.
16. Berstad A, Hausken T, Gilja OH, Hveem K, Nesje LB, Ødegaard S. Ultrasonography of the human stomach. *Scand J Gastroenterol* 1996;31 Suppl 220:75-82.
17. Gilja OH, Hausken T, Wilhelmsen I, A Berstad. Impaired accommodation of the proximal stomach to a meal in functional dyspepsia. *Dig Dis Sci* 1996;41(4):689-696.
18. Gilja OH, Hausken T, Wilhelmsen I, Olafsson S, A Berstad. Défaut d'adaptation de l'estomac proximal au repas, dans la dyspepsie fonctionnelle. *Gastroenterology Digest* 1997;(1)13-17.
19. Berstad A, Hausken T, Gilja OH, Undeland KA, Wilhelmsen I, Haug TT. Gastric accommodation in functional dyspepsia. Review. *Scand J Gastroenterol.* 1997;32:193-197.
20. Molin S-O, Jirås A, Falk A, Hall-Angerås M, Nesje LB, Gilja OH, Martens D, Ødegaard S. Virtual reality in surgical practice. In: *Studies in Health Technology and Informatics*. Sieburg H, Weghorst S, Morgan K (Eds.). IOS Press and Ohmsha 1997;39:246-253.
21. Gilja OH, Detmer PR, Jong JM, Leotta DF, Li X-N, Beach KW, Martin RW, Strandness Jr, DE. Intra-gastric distribution and gastric emptying assessed by three-dimensional ultrasonography. *Gastroenterology* 1997;113:38-49.
22. Gilja OH, Hausken T, Bang C.J., A Berstad. Effect of Glyceryl Trinitrate on Gastric Accommodation and Symptoms in Functional Dyspepsia. *Dig Dis Sci* 1997;42(10):2124-2131.
23. Hausken T, Søndena K, Svebak S, Martens D, Gilja OH, Søreide O, Olafsson S, Ødegaard S, A Berstad. Common pathogenic mechanisms in symptomatic, uncomplicated gallstone disease and functional dyspepsia: Volume measurement of gallbladder and antrum using three-dimensional ultrasonography. *Dig Dis Sci*; 1997;42(12):2505-12.
24. Gilja OH. Three-dimensional ultrasonography of the gastric antrum in patients with functional dyspepsia. *Motility* 1998;41;2+15-17. ISSN 0953-5535.



25. Undeland KA, Hausken T, Gilja OH, Aanderud S, Berstad A. Gastric meal accommodation studied by ultrasound in diabetes. Relation to vagal tone. *Scand J Gastroenterol.* 1998;33:236-241.
26. Hausken T, Gilja OH, Undeland KA, Berstad A. Timing of postprandial dyspeptic symptoms and transpyloric passage of gastric content. *Scand J Gastroenterol* 1998;33:822-827.
27. Ødegaard S, Nesje LB, Gilja OH, Hausken T, Molin SO, Martens D. Diseases of the gastrointestinal tract examined with 3D endoscopic ultrasonography. *Proceed. 8<sup>th</sup> World Congress of the Int Gastro-Surgical Club.* Eds Bismuth, Galmiche, Huguier, Jaeck. Monduzzi Editore. 1998;827-831.
28. Undeland KA, Hausken T, Gilja OH, Aanderud S, Berstad A. Glyceryl trinitrate improves gastric meal accommodation in diabetes. A placebo-controlled trial. *Eur J Gastroenterol Hepatol* 1998;10:677-681.
29. Hausken T, Gilja OH, Ødegaard S, Berstad A. Flow across the pylorus soon after ingestion of food studied by duplex sonography. Effect of glyceryl trinitrate. *Scand J Gastroenterol* 1998;33:484-490.
30. Gilja OH, Hausken T, Olafsson S, Matre K, Ødegaard S. In vitro evaluation of three-dimensional ultrasonography based on magnetic scanhead tracking. *Ultrasound Med Biol* 1998;24:1161-1167.
31. Berstad A, Hausken T, Gilja OH, Nesland A, Ødegaard S. Imaging studies in dyspepsia. *Eur J Surgery* 1998;S582:42-49.
32. Gilja OH, Hausken T, Berstad A, Ødegaard S. Invited review: Volume measurements of organs by ultrasonography. *Proc Inst Mech Eng* 1999, 213; 247-59.
33. Gilja OH, Hausken T, Ødegaard S, Berstad A. Invited Editorial: Gastric emptying measured by ultrasonography. *World J Gastroenterology* 1999; 5 (2):93-94.
34. Ødegaard S, Molin S-O, Nesje LB, Gilja OH, Hausken T. Three-dimensional intraluminal sonography in the evaluation of gastrointestinal diseases. *Invited Editorial in Abdominal Imaging* 1999, 24(5):449-51.
35. Matre K, Stokke EM, Martens D, Gilja OH. In vitro volume estimation of kidneys using three-dimensional ultrasonography and a position sensor. *Eur J Ultrasound* 1999;10(1):65-73.
36. Molin SO, Nesje LB, Gilja OH, Hausken T, Martens D, Ødegaard S. 3D-endosonography in gastroenterology: methodology and clinical applications. *Eur J Ultrasound* 1999;10: 171-177.
37. Folvik G, Bjerke Larsen T, Ødegaard S, Hausken T, Gilja OH, Berstad A. Hydrosonography of the small intestine. Comparison with radiological barium-study. *Scand J Gastroenterol* 1999;34(12):1247-52.
38. Gilja OH, Olafsson S, Folvik G, Hausken T, Ødegaard S, Berstad A. The ultrasound meal accommodation test. A case study. *Motility* 1999;46:14-15.
39. S. Vingerhagen, T. Hausken, O.H. Gilja, A. Berstad. Influence of a 5HT1 receptor agonist on gastric accommodation and initial transpyloric flow in healthy subjects. *Neurogastroenterol Motil.* 2000;12(1):95-101.
40. Olafsdottir E, Gilja OH, Aslaksen A, Berstad A, Fluge G. Impaired accommodation of the proximal stomach in children with recurrent abdominal pain. *J Pediatric Gastroenterol* 2000;30:157-163.
41. Ødegaard S, Nesje LB, Hausken T, Thierley M, Gilja OH, Takvam JA, Molin S-O. Die Untersuchung von Krankheiten des Gastrointestinaltrakts mittels dreidimensionalem endoskopischem Ultraschall. *Ultraschall Med* 2000;21(2):47-58.
42. Tefera S, Gilja OH, Hatlebakk JG, Berstad A. Gastric accommodation in patients with reflux esophagitis. *Dig Dis Sci.* 2001;46(3):618-25.

43. Berstad A, Olafsson S, Tefera S, Hatlebakk JG, Gilja OH, Hausken T. Controversies in dyspepsia. *Eur J Surg Suppl* 2001;586:4-11.
44. Tefera S, Gilja OH, Olafsdottir E, Hausken T, Hatlebakk JG, Berstad A. Intra-gastric maldistribution of a meal in patients with gastro-esophageal reflux disease assessed by three-dimensional ultrasonography. *Gut* 2002;50:153-158.
45. Gregersen, H., Gilja OH, Hausken T, Heimdal A, Gao C, Matre K, Ødegaard S, Berstad A. Determination of biomechanical wall properties in the human gastric antrum using transabdominal real-time B-mode ultrasonography and volume-controlled antral distension. *Am J Physiol* 2002; 283:G368-G375.
46. Gilja OH, Heimdal A, Hausken T, Gregersen, H, Matre K, Berstad A, Ødegaard S. Strain during gastric contractions can be measured using Doppler ultrasonography. *Ultrasound Med Biol.* 2002;28:1457-65.
47. Gilja OH. 3D ultrasound of the upper GI tract. *BMUS Bulletin* 2003;11(1):26-29 .
48. Gilja OH, Hausken T, Wendelboe Ø, Thierley M, Ødegaard S. Mobilultral lyd i en medisinsk avdeling. En pilotstudie. *Tidsskr Nor Lægefor.* 2003;19:2713-14.
49. Matre K, Ahmed AB, Gregersen H, Heimdal A, Ødegaard S, Gilja OH. In vitro evaluation of ultrasound Doppler strain rate imaging. Modification for measurement in a slowly moving tissue phantom. *Ultrasound Med Biol* 2003;29:1725-1734.
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Odd Helge Gilja