

Curriculum Vitae- Roald Flesland Havre

Date of birth: 06. August 1970

Nationality: Norwegian

Occupation: Consultant/Physician and Research fellow, MD, PhD

Address: Fageråsen 17, 5093 Bergen, Norway

Family: Married, 4 children

Employer: Department of Medicine, National Centre for Ultrasound in Gastroenterology

Education: 1997: Cand.med. University of Bergen and NTNU, Trondheim

2012: PhD, University of Bergen, Faculty of Medicine and Odontology

2014: Specialist in Internal Medicine

Occupation: 1999-01: Internship, Nordfjord Hospital, Nordfjordeid and Eid commune.

2001-02: General practitioner, Nordfjordeid, 12 months

2002-02: Resident Nordfjord Hospital, Dept. of Surgery, 6 months

2002-04 Resident in Internal Medicine Haralds plass Deaconess Hospital, Bergen

2004-07: Resident in internal medicine, cardiology and gastroenterology, Haukeland University Hospital, Bergen

From 2006: Research fellow in National Centre for Ultrasound in Gastroenterology with emphasis on endoscopic ultrasound and elasticity imaging.

2008- 2012: PhD student Scholarship University of Bergen, Institute of Medicine

2012- 2014: Deputive Consultant at the Department of Medicine, Gastroenterology,

2014 – date: Consultant, Haukeland University Hospital and Post-doc Research fellow.

Research: PhD Thesis 2012: “Tissue characterisation by ultrasound based strain imaging” at the University of Bergen, Institute of Medicine, ISBN: 978-82-308-2116-9

Interests: Internal Medicine, Gastroenterology. Research on US elastography and contrast enhanced EUS for tissue characterisation. Endoscopic ultrasound and interventions guided by this method.

Funding/Prizes:

2006: Norwegian Society for Gastroenterology: Solvay`s Gastro fund 2006 for studies of the pancreas with ultrasound

2007: Norwegian Society for Diagnostic-Ultrasound: Best free paper: 10.000 NOK

2008: University of Bergen: 4 year PhD scholarship

2008: Norwegian Society for Gastroenterology, Olympus travel fund 10.000 NOK (EUS course Amsterdam)

2009: Norwegian Society for Gastroenterology Research Fund (ex-vivo elastography study) 20.000 NOK

2009: UiB, Meltzerfund 20.000,- for presentation of the ex vivo study

2009: EUROSON: 3rd. Prize in posters. 200 Euro

2010: NGF, Olympus travel Fund, Poster EUS elastography

2010: UiB, Connie Gulborg Jansens Legat 20.000 NOK presentation of EUS elastography of the pancreas

2011: Kjøpmann Olaf Rundshaugs legat: 300.000 NOK for Hitachi US scanner on behalf of NSGU

2012-2014: Helse-Vest: Serial annual Project: Tissue Characterisation by strain imaging and contrast enhanced ultrasonography” 4 years.

2013: Caroline Musæus Aarvolds stipend 2013. The Norwegian Medical Association for a planned research and EUS learning stay at Herlev Hospital, Copenhagen. (NOK 97.000)

2014: Post-Doc funding 50% for up to 6 years: Advanced Endoscopic Ultrasound for characterization of focal pancreatic lesions and proteomics.

Posters:

1. *Quality assessment of free-hand sonoelastography in vitro.*
Euro EUS 2007, Sevilla 07
2. *EUS Elastography – preliminary results in 45 patients.*
EUS 2008, San Francisco, USA Sept. 12.-14. (by Dr. Nesje)
3. *EUS elastography in pancreatic disease.* WFUMB 2009, Sydney, Australia, 28.08-04.09.09: *Strain Ratio – A tool for quantification of elastograms* EUROSON 2009, 05-08. Dec, Edinburgh (3rd Poster prize)
4. *Semi-quantification of elastic contrasts by strain ratio in elastography – possibilities and pitfalls*
Euroson 2010, 22-24 Aug, Copenhagen
5. *Semi-quantification of sonoelastography in Crohn stenoses and colorectal tumours ex vivo*
WFUMB/Euroson 26.-29. aug. 2011, Vienna
6. *Semi-quantification of ex-vivo sonoelastography in mesenterial lymph nodes from patients with adenocarcinomas and Crohn's disease*
WFUMB/Euroson 26.-29. aug. 2011, Vienna
7. *Quantification of elastography in pancreatic focal lesions using endoscopic ultrasonography*
UEGW, Stockholm Oct 22.-26. 2011. *Quantification of elastography of pancreatic lesions using Endoscopic ultrasonography.* Top poster award.

International/National oral free paper presentations:

1. EuroEUS 2007, Sevilla 04.05.07: ***"Endoscopic Sonoelastography – initial experience"***.
2. EGEUS 2007, Torino, Italy 14.-15.09 2007: ***"Endoscopic sonoelastography – preliminary results in 31 patients"***.
3. Annual Norwegian Gastroenterology Association meeting (NGF) 2009, Lillehammer, ***EUS elastography of Pancreas.***
4. Norwegian Society of Diagnostic Ultrasound Symposium 2009, Soria Moria, Oslo: 1: ***What can Elastography add to GI ultrasonography?*** and 2: ***EUS elastography of pancreas.***
5. Annual Norwegian Gastroenterology Association meeting (NGF), Lillehammer, Feb 2010: ***Chronic atrophic gastritis and polyps in the gastric mucosa – a case presentation***
6. ***Strain Ratio – for quantification of strain differences in quasi-static elastograms***
SMIT 2010 2.-4 sept., Trondheim:
7. ***Reconstructing the sense of touch – Haptic rendering of sonoelstography images***
Joint National PhD conference in Medical Imaging and Medviz Conference, Bergen 17.-18. Jan., 2011.
8. ***EUS elastography of the pancreas.*** EUROSON-school, Postgraduate course, Bergen, Norway, June 2013

Publications (Pubmed list):

1. ***Endorectal ultrasonography, strain elastography and MRI differentiation of rectal adenomas and adenocarcinomas.*** Waage JE, Leh S, Røsler C, Pfeffer F, Bach SP, **Havre RF**, Haldorsen IS, Odegaard S, Baatrup G. *Colorectal Dis.* 2014 Nov 18. doi: 10.1111/codi.12845. [Epub ahead of print]. PMID: 25407010.
2. ***Combined endorectal ultrasonography and strain elastography for the staging of early rectal cancer.*** Waage JE, Bach SP, Pfeffer F, Leh S, **Havre RF**, Odegaard S, Baatrup G. *Colorectal Dis.* 2014 Sept 1, [Epub ahead of print] PMID: 25176033
3. ***Characterization of solid focal pancreatic lesions using endoscopic ultrasonography with real-time elastography.*** Havre RF, Odegaard S, Gilja OH, Nesje LB. *Scand J Gastroenterol.* 2014 Apr 8. [Epub ahead of print]. PMID: 24713038

4. **Ultrasonography in diagnosing chronic pancreatitis: new aspects.** Dimcevski G, Erchinger FG, **Havre R**, Gilja OH. World J Gastroenterol. 2013 Nov 14;19(42):7247-57. doi: 10.3748/wjg.v19.i42.7247. Review. PMID: 24259955
5. **Elastography and strain rate imaging of the gastrointestinal tract.** **Havre R**, Gilja OH. Eur J Radiol. 2014 Mar;83(3):438-41. doi: 10.1016/j.ejrad.2013.05.018. Epub 2013 Jun 13.
6. **EFSUMB guidelines and recommendations on the clinical use of ultrasound elastography. Part 2: Clinical applications.** Cosgrove D, Piscaglia F, Bamber J, Bojunga J, Correas JM, Gilja OH, Klauser AS, Sporea I, Calliada F, Cantisani V, D'Onofrio M, Drakonaki EE, Fink M, Friedrich-Rust M, Fromageau J, **Havre RF**, Jenssen C, Ohlinger R, Săftoiu A, Schaefer F, Dietrich CF. Ultraschall Med. 2013 Jun;34(3):238-53. doi: 10.1055/s-0033-1335375. Epub 2013 Apr 19. PMID: 23605169
7. **EFSUMB guidelines and recommendations on the clinical use of ultrasound elastography. Part 1: Basic principles and technology.** Bamber J, Cosgrove D, Dietrich CF, Fromageau J, Bojunga J, Calliada F, Cantisani V, Correas JM, D'Onofrio M, Drakonaki EE, Fink M, Friedrich-Rust M, Gilja OH, **Havre RF**, Jenssen C, Klauser AS, Ohlinger R, Săftoiu A, Schaefer F, Sporea I, Piscaglia F. Ultraschall Med. 2013 Apr;34(2):169-84. doi: 10.1055/s-0033-1335205. Epub 2013 Apr 4. PMID: 23558397
8. **Quantitative measurement of ultrasound attenuation and Hepato-Renal Index in Non-Alcoholic Fatty Liver Disease.** von Volkmann HL, **Havre RF**, Løberg EM, Haaland T, Immervoll H, Haukeland JW, Hausken T, Gilja OH. Med Ultrason. 2013 Mar;15(1):16-22. PMID: 23486619 Free Article
9. **Strain Assessment in Surgically Resected Inflammatory and Neoplastic Bowel Lesions.** **Havre RF**, Leh S, Gilja OH, Odegaard S, Waage JE, Baatrup G, Nesje LB. Ultraschall Med. 2014 Apr;35(2):149-158. Epub 2012 Nov 15. PMID: 23154869
10. **Efficacy of an artificial neural network-based approach to endoscopic ultrasound elastography in diagnosis of focal pancreatic masses.** Săftoiu A, Vilmann P, Gorunescu F, Janssen J, Hocke M, Larsen M, Iglesias-Garcia J, Arcidiacono P, Will U, Giovannini M, Dietrich CF, **Havre R**, Gheorghe C, McKay C, Gheonea DI, Ciurea T; European EUS Elastography Multicentric Study Group. Clin Gastroenterol Hepatol. 2012 Jan;10(1):84-90.e1. doi: 10.1016/j.cgh.2011.09.014. Epub 2011 Oct 1. PMID: 21963957
11. **Real-Time Elastography: Strain Ratio Measurements Are Influenced by the Position of the Reference Area.** **Havre RF**, Waage JR, Gilja OH, Odegaard S, Nesje LB. Ultraschall Med. 2011 Jun 10. [Epub ahead of print] PMID: 21667433
12. **Accuracy of endoscopic ultrasound elastography used for differential diagnosis of focal pancreatic masses: a multicenter study.** Săftoiu A, Vilmann P, Gorunescu F, Janssen J, Hocke M, Larsen M, Iglesias-Garcia J, Arcidiacono P, Will U, Giovannini M, Dietrich C, **Havre R**, Gheorghe C, McKay C, Gheonea DI, Ciurea T; European EUS Elastography Multicentric Study Group. Endoscopy. 2011 Jul;43(7):596-603. doi: 10.1055/s-0030-1256314. Epub 2011 Mar 24. PMID: 21437851
13. **Endorectal elastography in the evaluation of rectal tumours.** Waage JE, **Havre RF**, Odegaard S, Leh S, Eide GE, Baatrup G. Colorectal Dis. 2011 Oct;13(10):1130-7. doi: 10.1111/j.1463-1318.2010.02440.x. PMID: 21040360
14. **Freehand real-time elastography: impact of scanning parameters on image quality and in vitro intra- and interobserver validations.** **Havre RF**, Elde E, Gilja OH, Odegaard S, Eide GE, Matre K, Nesje LB. Ultrasound Med Biol. 2008 Oct;34(10):1638-50. doi: 10.1016/j.ultrasmedbio.2008.03.009. Epub 2008 Jun 4. PMID: 18524458

Abstracts/Short papers/Conference proceedings:

1. **Semi-Quantification of Ex-Vivo Sonoelastography in Mesenterial Lymph Nodes from Patients with Adenocarcinomas and Crohn's Disease**
RF **Havre**, S Leh, OH Gilja, S Ødegaard, JER Waage, G Baatrup, LB Nesje
Ultrasound in Medicine & Biology 37 (8), S94
2. **Ultrasound palpation by haptic elastography**
KL Palmerius, RF **Havre**, OH Gilja, I Viola. Computer-Based Medical Systems (CBMS), 2011 24th International Symposium on, 1-6
3. **Endoscopic submucosal dissection of early gastric cancer-video case.** KDC Pham, S Leh, RF **Havre**, T Engjom. Scandinavian Journal of Gastroenterology 45, 58-58
4. **Endoscopic ultrasonography of the small bowel**

S Ødegaard, HL von Volkmann, RF Havre, LB Nesje. Endoscopy 41 (S 02), E8-E9

5. 1399: Endoscopic Elastography of Pancreatic Disease

RF Havre, S Ødegaard, OH Gilja, LB Nesje. Ultrasound in Medicine & Biology 35 (8), S207-S208

6. Endoscopic real time elastography: a study of 45 patients

RF Havre. Gastrointestinal Endoscopy 69 (2), S244

Book Chapters:

1. Imaging of Tissue Elasticity in Gastrointestinal Disorders

RF Havre, OH Gilja. In: Medical Radiology, Springer Berlin Heidelberg, 2012.

2. Ultralyd av milten. Innføring i abdominal ultrasonografi.

Havre og Gilja. 2009. Fagbokforlaget. ISBN 978-82-450-0727-5.

3. Reconstructing the sense of touch – Haptic rendering of sonoelastography images.

Havre RF, Palmerius K, Ulvang DM, Nesje LB, Viola I, Gilja OH, Ødegaard S. In book: 2011 Joint National Ph.D. Conference in Medical Imaging and MedViz Conference. 2011; 67. ISBN 978-82-993786-6-6.

Attended International EUS Meetings:

2005: Euro EUS 2005, Copenhagen, Denmark

2006: EUS2006, Amsterdam, Netherlands

2007: Euro EUS 2007, Sevilla Spain (Abstract)

2007: EGEUS, Torino, Italy (Abstract)

2013: First CE-EUS meeting, Lyon 19.-20. sept 2013

EUS Courses: 2004: National course in EUS, 2 days Bergen, Norway

2007: EUS live in Amsterdam, 2 days, AMS, Amsterdam, Netherlands

2008: National course in EUS, 2 days. Bergen, Norway (Course leader)

2012: Pearls in Pancreatology and 9th annual EUS course, Mayo Clinic Rochester, USA.

2012: Amsterdam EUS and ERCP, 2 days (AMS)

2012: National course in EUS, 2 days. Bergen, Norway (Course leader)

2014: Herlev. Copenhagen: Controversies in endoscopy 2014

2014: National course in EUS, 2 days. Bergen, Norway (Course leader)

Reference persons:

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