

LIST OF PUBLICATIONS

PER HALLBERG

Dissertation

- **P Hallberg**, Applanation resonance tonometry for intraocular pressure measurement, Umeå University, Sweden, 2006.

Book chapters

- Medical Advancements in Aging and Regenerative Technologies: Clinical Tools and Applications. Editor: Andriani Daskalaki, Chapter Title: Tactile resonance sensors for detection and diagnosis of age related diseases Author: Olof A. Lindahl, Anders Eklund, **Per Hallberg**. 2012, ISBN 978-1-4666-2506-8.

Peer-review papers

1. Anders Eklund, **Per Hallberg**, Christina Lindén, and Olof Lindahl 'An applanation resonator sensor for measuring intraocular pressure using combined continuous force and area measurement.' *Invest Ophthalmol Vis Sci* 2003;44(7):3017-24.
2. **Per Hallberg**, Christina Lindén, Olof Lindahl Tomas Bäcklund and Anders Eklund 'Applanation resonance tonometry for intraocular pressure in humans' *Physiological Measurement* 2004; 25: 1053-1065.
3. **Per Hallberg**, Kenneth Santala, Christina Lindén, Olof Lindahl and Anders Eklund 'Comparison of Goldmann applanation tonometry and Applanation resonance tonometry in an vertical in vitro porcine-eye model' *J Med Eng Technol*. 2006; 30 pp 345-52.
4. **Per Hallberg**, Tomas Bäcklund, Christina Lindén, and Anders Eklund 'Symmetric sensor for applanation resonance tonometry of the eye' *Med Biol Eng Comput*. 2006; 1, 44 (5):54-60.
5. **Per Hallberg**, Anders Eklund, Kenneth Santala, Timo Koskela, Olof A Lindahl och Christina Linden 'Underestimation of intraocular pressure after photorefractive keratectomy – a biomechanical analysis' *Med Biol Eng Comput*; 2006 44 :609-618.
6. **Per Hallberg**, Anders Eklund, Tomas Bäcklund, Christina Lindén 'Clinical evaluation of Applanation resonance tonometry – a comparison with Goldmann applanation tonometry', *Journal of Glaucoma*, 2007 1: 88-93.

7. Jóhannesson, G., **Hallberg, P.**, Eklund, A. and Lindén, C. (2008), Pascal, ICare and Goldmann applanation tonometry – a comparative study. *Acta Ophthalmologica*, 86: 614–621. doi: 10.1111/j.1600-0420.2007.01112.x
8. Helge Brändström, Helena Grip, **Per Hallberg**, Christer Grönlund, Karl-Axel Ängqvist, Gordon Giesbrecht, Changes in hand rewarming responses following 15 months of military training in northern Sweden, *Aviat Space Environ Med.* 2008 Sep;79(9):904-8.
9. Olof Lindahl, Christos Constantinou, Anders Eklund, Yoshinobu Murayama, **Per Hallberg**, and Sadao Omata ‘Review of Tactile Resonance Sensors in Medicine’ *JMET*, Volume 33, Issue 4 May 2009 , pages 263 - 273.
10. Nilsson M, Rasmark U, Nordgren H, **Hallberg P**, Skönevik J, Westman G, Rolandsson O. The physician at a distance: the use of videoconferencing in the treatment of patients with hypertension. *J Telemed Telecare.* 2009;15(8):397-403
11. Gauti Jóhannesson, **Per Hallberg**, Anders Eklund, Timo Koskela, Christina Lindén, Change in Intraocular Pressure Measurement After Myopic LASEK: A Study Evaluating Goldmann, Pascal and Applanation Resonance Tonometry, *J Glaucoma.* 2011 Jun 8.
12. Jóhannesson G, **Hallberg P**, Eklund A, Lindén C, Introduction and clinical evaluation of servo-controlled applanation resonance tonometry, *Acta Ophthalmol.* 2011 Feb 15.
13. Jóhannesson G, **Hallberg P**, Eklund A, Koskela T, Lindén C, Change in intraocular pressure measurement 2 years after myopic laser-assisted subepithelial keratectomy, 2012 Sep, Vol. 38, Issue 9, Pages 1637-1642.
14. Jóhannesson, G., **Hallberg, P.**, Eklund, A., Behndig, A. and Lindén, C. (2013), Effects of topical anaesthetics and repeated tonometry on intraocular pressure. *Acta Ophthalmologica.* doi: 10.1111/aos.12058.
15. Ambarki K, **Hallberg P**, Jóhannesson G, Lindén C, Zarrinkoob L, Wåhlin A, Birgander R, Malm J, Eklund A, Blood flow of ophthalmic artery in healthy individuals determined by phase contrast magnetic resonance imaging. Accepted for publication *Invest Ophthalmol Vis Sci* 2013.
16. Gauti Jóhannesson, Christina Lindén, Anders Behndig, Anders Eklund, **Per Hallberg**, The effect of intracameral air on measured IOP - a study of three tonometry methods in an in vitro porcine eye model, submitted.

17. Jeannette Beckman Rehnman, Anders Behndig, **Per Hallberg**, Christina Lindén, Mechanical Compression of the Cornea does not Reduce the Refractive Errors after Corneal Crosslinking for Keratoconus, submitted.
18. **Hallberg**, Khalid et al. Ocular blood flow and pulsations. In manuscript.

Peer-review conferences

1. **Per Hallberg**, Tomas Bäcklund, Anders Eklund och Olof Lindahl (2001) 'Kontinuerlig mätning av kraft och yta för bestämning av intraokulärt tryck' Program för Svenska läkaresällskapets riksstämma, Stockholm, pp 256, 2001
2. Grip, N. Andersson, U. Edström, **P. Hallberg**, O. Rolandsson, Å. Lernmark, Detection of EGFP fluorescence: a low-cost device, World congress, Sidney 2002.
3. Anders Eklund, **Per Hallberg**, Christina Lindén, Tomas Bäcklund and Olof A. Lindahl 'Evaluation of an applanation resonator sensor for intraocular pressure measurement in a clinical setting' Proc. of the World Congress on Medical Physics and Biomedical Engineering Sydney August 2003
4. **Per Hallberg**, Anders Eklund, Tomas Bäcklund, Olof Lindahl and Christina Lindén 'Applanation resonator sensors - a new technique for measuring intraocular pressure' Proc. of the European Association for Vision and Eye Research Conference, Alicante, October, 2003
5. **Per Hallberg**, Anders Eklund, Timo Koskela, Olof Lindahl, Christina Lindén och Kenneth Santala 'Ögontrycksmätning efter laseroperation' Program för Svenska läkaresällskapets riksstämma 2004 Göteborg
6. A Eklund, **P Hallberg**, K Santala, T Bäcklund, C Lindén 'Eye-pressure measurement with applanation resonance tonometer' Proc. of the 13TH Nordic-Baltic conference on biomedical engineering, Umeå, Sweden, pp 128-129, 2005.
7. Skönevik J, **Hallberg P**, Müller A, Lundström R, Wiklund U, Karlsson JS. A technical platform for remote auscultation and real-time monitoring of physiological parameters, *Proceedings of the IFMBE 13th Nordic Baltic Conference on Biological Engineering and Medical Physics*, Umeå, 47-48, June 13-17, 2005.
8. **P Hallberg**, K Santala, T Koskela, O Lindahl, C Lindén, A Eklund ' Error in applanation tonometry related to refractive surgery' Proc. of the 13TH Nordic-Baltic Conference on biomedical engineering, Umeå, Sweden, pp 277-278, 2005
9. A Eklund, **P Hallberg**, K Santala, C Lindén ' Development of an applanation resonance tonometer' Program för Sveriges Ögonläkarförenings Årsmöte 2005, Umeå pp 2005
10. **P Hallberg**, A Eklund, T Bäcklund, C Lindén, Clinical evaluation of Applanation resonance tonometry – a comparison with Goldmann applanation tonometry, EVER Portugal Oct 2006
11. C Lindén, **P Hallberg**, K Santala, A Eklund 'Clinical Evaluation of Applanation Resonance Tonometry' ARVO 2006 Fort Lauderdale.
12. A Muller, Stefan Karlsson, Johan Skönevik, Urban Wiklund, **Per Hallberg**, Erfarenheter från distansmonitoreringsprojekt - Etnografisk metodik - Användbarhet – Design, Medicinteknikdagar, Uppsala, 2006.
13. G Jóhannesson, A Eklund, C Lindén, **P Hallberg**, Repetitive IOP measurements, EVER, Slovenien, Oct. 2008.

14. J. Skönevik, J.S. Karlsson, **Per Hallberg**, Leif Nyström, Lars Olsén, A Technical Platform for Remote Monitoring of Biosignals in Real Time, PHealth 2008
15. J. Skönevik, J.S. Karlsson, **P. Hallberg**, L. Nyström, L. Olsén, En teknisk plattform för distansmonitorering av fysiologiska parametrar i realtid, Medicinteknikdagarna, Göteborg 2008.
16. G Jóhannesson, A Eklund, C Lindén, **P Hallberg**, World Glaucoma congress Boston, 2009.
17. Gauti Jóhannesson, **Per Hallberg**, Anders Eklund, Christina Lindén, Clinical evaluation of a further developed Applanation Resonance Tonometer, NOK, Reykjavik Aug 2010.
18. Gauti Jóhannesson, **Per Hallberg**, Anders Eklund, Christina Lindén, Clinical evaluation of a servo controlled Applanation Resonance Tonometer, EGS, Madrid, Sept 2010.
19. **Per Hallberg**, Gauti Jóhannesson, Christina Lindén, Anders Eklund, Utvärdering av servokontrollerad applanations resonans sensor för mätning av ögontryck, Medicinteknikdagarna, Umeå 6-7/10, 2010.
20. Göran Mannberg, Anders Eklund, Leif Nyström, **Per Hallberg**, Utveckling av algoritmer för styrning av piezomotor i ett servokontrollerat sensorsystem. Svenska läkarsällskapets riksstämma, Göteborg 1/12 2010.
21. **Per Hallberg**, Christina Lindén, Kenji Claesson, Göran Mannberg, Anders Eklund, Inledande försök med ny sensorteknik för analys av ögats biomekanik., Svenska läkarsällskapets riksstämma, Göteborg 1/12 2010.
22. Gauti Jóhannesson, **Per Hallberg**, Christina Lindén, Anders Eklund, Anders Benhdig, Change in measured IOP before and after intracameral air injection in an in vitro porcine eye model. EGS, Copenhagen, June, 2012.
23. **Per Hallberg**, Göran Mannberg, Gauti Jóhannesson, Christina Lindén, Anders Eklund. In vitro measurement of ocular pulse amplitude using Applanation resonance tonometry, San Diego, Sept 2012.
24. **Hallberg**, Eklund, Jóhannesson, Lindén, Zarrinkoob, Wåhlin, Birgander, Malm, Ambarki. Volumetric flow rate of ophthalmic artery using magnetic resonance imaging, Medicinteknikdagarna Lund, 2012
25. Göran Mannberg, Anders Eklund, Gauti Jóhannesson, Christina Lindén, **Per Hallberg**. Experimentell mätning av okulär pulsamplitud med resonanssensor-teknik, Medicinteknikdagarna Lund 2012.