

Curriculum Vitae

September 2020

I Name: Fredrik H. Nystrom

II Date of Birth: Sept. 3, 1963 Gothenburg, Sweden

III Present Position

Professor of internal medicine and endocrinology at the Faculty of Medicine and Health Sciences, Department of Health, Medicine and Caring Sciences. Head of subject area Internal Medicine and senior consultant in internal medicine and endocrinology.

IV Home Address

Finspångsvägen 574, 605 80 Svärtinge, Sweden.

Married to Eva-Lotta Nyström, 3 kids: Viktor (Oct. 3, 1991), Max (May 9, 1993) and Lovisa (May 24, 2002).

V Education and Positions Held

B.M., Uppsala University, Uppsala, Sweden 1985

M.D., Uppsala University, Uppsala, Sweden 1988

Ph. D., Linköping University, Sweden 1997

Intern at Finspång Hospital 1988-1990

Resident at Linköping University Hospital 1990-1995

Registrar in Endocrinology at Linköping University Hospital 1995- July 1997

Visiting associate, Hypertension Endocrine Branch, National Heart Lung and Blood Institute, National Institutes of Health Bethesda, MD, USA (American Fogarty Stipend) July 1997-June 1999

University Hospital of Linköping July 1999-

VI Teaching

Tutor in PBL "basgrupphandledare" 1999-2004

Lecturer at the Faculty of Health Sciences, lecturing second, third, fourth, eighth, and ninth semesters of medical students 1999-

Educational responsibility for the seventh semester of medical students 2002-2003

Member of committee for new curriculum for medical students, areas for "circulation" and "metabolism" 2004-2006

Member of steering committee for medical education 2011-2013

VII Stipends

Fogarty-stipend, NIH, USA (salary for 2 years) 1997-1999

Research Stipend from Svenska Sällskapet för Medicinsk Forskning (salary for 2 years) 2000-2002

VIII Board Certifications:

Diplomate Endocrinology (Sweden) 1994

Diplomate Internal Medicine (Sweden) 1996

American Medical Degree (ECFMG-certified) 1998

European Hypertension Specialist of ESH* 2001

(*European Society of Hypertension)

IX Referee

Since 2001 member of the editorial board for the journal Blood Pressure.

Ad hoc referee for Clinical Endocrinology, Journal of Clinical Endocrinology and Metabolism, SJCLI, Journal of Internal Medicine, Diabetologia, ATVB, the Lancet, JAMA, Nutrition, Am J Hypertens, PlosOne, Nutrition Research, Nutrition, etc.

X Awards

Fernstrom Award for Young Scientists 2002

Nominated for best tutor at the education of medical students in Linköping 2002

Nominated for best lecturer at the education of medical students in Linköping 2017

XI Main supervisor of PhD students

Finished

Karin Stenkula, Jan 2007, postdoc at NIH Bethesda, MD, now Lund University in Sweden.

Lilian Sauma April 2008.

Niclas Franck June 2009

Magnus Wijkman MD, April 2012

Hans Guldbrand MD, May 2015

Ongoing

Marta Vergara MD

Edvin Ström, MD

Klas Sandberg, physical therapist

Camilla Vavruch MD

Martina Johansson, master of science in biomedical engineering

Lee Ti Davidsson MD

XII Peer reviewed scientific publications in international journals

(h-index Scopus: 35, h-index Google Scholar: 45 (7200 citations in total):

1. I. Engström, F Nyström, A. Waldenström, G. Ronquist. Familial pseudohyperkalemia exhibits enhanced erythrocyte glycolysis associated with increased Na⁺ - and K⁺ -dependent ATPase activity: Trace Elements and Electrolytes. 1995: 12: 173-178.
2. Fredrik Nyström, Ola Malmström, Bengt E. Karlberg, K. Peter Öhman. Twenty-four hour ambulatory blood pressure in the population. Journal of Internal Medicine: 1996: 240: 279-284
3. Fredrik Nyström, Peter Nilsson, Anders G. Olsson, Bengt E. Karlberg, K. Peter Öhman. A population study of plasma neuropeptide Y: correlations with components of the metabolic syndrome: Blood Pressure: 1996: 5: 349-353
4. Fredrik H. Nyström, Bengt E. Karlberg, K. Peter Öhman. Serum angiotensin converting enzyme activity correlates positively with plasma angiotensin II: a population-based study of ambulatory blood pressure and the renin-angiotensin system. Journal of Human Hypertension: 1997: 11: 301-306.
5. Fredrik Nyström, K. Peter Öhman, Bertil Ekman, Maria Österlund, Bengt E. Karlberg, Hans J. Arnqvist. Population-based reference values for insulin-like growth factor I and insulin-like growth factor binding protein 1: relations to metabolic and anthropometric variables. European Journal of Endocrinology: 1997: 136: 165-172.
6. Fredrik Nyström, Maria Österlund, Bertil Ekman, Torbjörn Lindström, K. Peter Öhman, Hans J. Arnqvist. Leptin in a population and in growth hormone deficiency: negative correlation to testosterone in men and regulation by growth hormone. Clinical Endocrinology: 1997: 47 :191-198.
7. Fredrik Nyström, Elisabeth Aardal, K. Peter Öhman. A population-based study of the white-coat blood pressure effect: positive correlation with

plasma cortisol. *Clinical and Experimental Hypertension*: 1998: 20: 95-104.

8. Fredrik Nyström, Johan Ahlner, Bengt E. Karlberg and K. Peter Öhman: A population-based study of plasma cyclic guanosine monophosphate: relations to age, atrial natriuretic factor and angiotensin-converting enzyme activity: *Scandinavian Journal of Clinical and Laboratory Investigation*. 1998: 58: 605-610.

9. Fredrik H. Nyström and Michael J. Quon: Insulin signaling: metabolic pathways and determinants of specificity. *Cellular Signalling*: 1999: 11: 563-574 (review).

10. Trausti Waldimarsson, Göran Toss, Gunnar Järnerot, Hans J. Arnqvist, Fredrik Nyström, Magnus Ström: Low circulating levels of IGF-I in coeliac disease and its relation to bone mineral density. *Scandinavian Journal of Gastroenterology*. 1999: 34: 904-908

11. Torbjörn Lindström, Fredrik Nyström, Anders G. Olsson, Anna-Maria Ottosson, Hans J. Arnqvist: The Lipoprotein profile differs during insulin treatment alone and combination therapy with insulin and sulphonylureas in patients with type 2 diabetes mellitus. *Diabetic Medicine*: 1999: 16: 820-826

12. Fredrik H. Nyström, Hui Chen, Li-Na Cong, Yunhua Li and Michael J. Quon. Caveolin-1 interacts with the insulin receptor and can differentially modulate insulin signaling in transfected Cos-7 cells and rat adipose cells. *Molecular Endocrinology* 1999: 13: 2013-2024

13. Zeng, G., Nyström, F.H., Ravichandran, L.V., Cong, L., Kirby, M., Mostowski, H., Quon, M.J. Roles for Insulin receptor, PI3-kinase, and AKT in insulin-signaling pathways related to production of nitric oxide in human vascular endothelial cells. *Circulation*: 2000: 101: 1539-1545.

14. Bertil Ekman, Fredrik Nyström, Hans J. Arnqvist: Circulating IGF-I concentrations are low and not correlated to glycaemic control in patients with type 1 diabetes. *European Journal of Endocrinology*: 2000: 143: 505-510.

15. Fredrik Nyström, K. Peter Öhman, Hans Isaksson, Åke Schwan and Jan Östergren: Less difference between office and ambulatory blood pressure in women than in men both before and during antihypertensive treatment. *Blood Pressure*: 2000: 9: 340-345.

16. M Bojestig, F Nyström, H J Arnqvist, J Ludvigsson, B E Karlberg: The renin-angiotensin system is suppressed in patients with type 1 diabetes. *Journal of the Renin-Angiotensin-Aldosterone System*: 2000: 1: 353-356.

17. Mats Bojestig, Bengt E. Karlberg, Torbjörn Lindström, Fredrik H Nystrom. Reduction of ACE-activity is insufficient to lower micro-albuminuria in normotensive patients with type 1 diabetes. *Diabetes Care*: 2001; 24: 919-924.
18. Karin Malmqvist, Thomas Kahan, Magnus Edner, Claes Held, Anders Hägg, Lars Lind, Fredrik Nystrom, K. Peter Ohman, M. D. Osbakken, Jan Ostergren. Regression of left ventricular hypertrophy in human hypertension with Irbesartan. *Journal of Hypertension*: 2001; 19: 1167-1176.
19. Jan Engvall, Fredrik Nyström. Day-time ambulatory blood pressure correlates strongly with the echocardiographic diameter of aortic coarctation. *Scandinavian Cardiovascular Journal*: 2001; 35: 335-339
20. L Kurland, H. Melhus, T. Kahan, K. Malmquist, K. P Öhman, F. Nyström, A. Hägg, L Lind. ACE-gene polymorphism predicts blood pressure response to angiotensin-II receptor blockers in hypertensive patients. *Journal of Hypertension*: 2001; 19: 1783-1787
21. Hui Chen, Fredrik H. Nystrom, Lily Q. Dong, Li Na Cong, Yunhua Li, Feng Liu, Michael J. Quon: Insulin stimulated Activation of Phosphoinositide dependent Kinase 1 (PKD1): potential role in translocation of GLUT4 in rat adipose cells. *Biochemistry*: 2001; 30: 11851-11859.
22. L Kurland, H Melhus, J Karlsson, T Kahan, K Malmquist, K P Öhman, F Nyström, A Hägg, L Lind. Aldosterone synthase (CYP11B2) –344 C/T polymorphism is related to antihypertensive response. *Journal of Hypertension*: 2002; 15: 389-393.
23. L Kurland, H Melhus, J Karlsson, T Kahan, K Malmquist, K P Öhman, F Nyström, A Hägg, L Lind. Polymorphisms in the angiotensinogen and angiotensin-II type 1 receptor genes are related to regression of left ventricular mass during antihypertensive treatment. *Journal of Hypertension*: 2002; 20: 657-663.
24. Bertil Ekman, T. Lindström, Fredrik H. Nyström, AG Olsson, G Toss and Hans J. Arnqvist: A dose titration model for recombinant GH substitution aiming at normal plasma concentrations of IGF-I in hypopituitary adults. *European Journal of Endocrinology*: 2002; 147: 49-57.
25. Fredrik Nyström, Karin Malmqvist, K Peter Öhman, Thomas Kahan. Nurse-recorded and ambulatory blood pressure predicts treatment-induced

reduction of left ventricular hypertrophy equally well in hypertension. *Journal of Hypertension*: 2002; 20: 1527-1533.

26. B Ekman, K. P Öhman, H J Arnqvist, T Lindström, F H Nyström: Individualized growth hormone substitution with normalized IGF-I levels does not stimulate the renin-angiotensin-aldosterone system. *Clinical Endocrinology*: 2002; 57: 473-479.

27. P Hallberg, J Karlsson, L Kurland, T Kahan, L Lind, K Malmqvist, P Öhman, F Nyström, H Melhus. The CYP2C9 genotype predicts the blood pressure response to irbesartan. *Journal of Hypertension*: 2002; 20: 2089-293.

28. K Malmqvist, P Öhman, L Lind, F Nyström and T Kahan. The importance of the renin-angiotensin system, sympathetic function, insulin and leptin for left ventricular mass in human hypertension. *Journal of Internal Medicine*: 2002; 252: 430-439.

29. U Liljedahl, J Karlsson, H Melhus, F Nystrom, L Kurland, M Lindersson, L Lind, A-C Syvänen. Microarray minisequencing for pharmacogenetic profiling of drug response in hypertension. *Pharmacogenetics*: 2003;13:7-17.

30. P. Hallberg, K. Michaëlsson, J. Karlsson, L. Kurland, L. Lind, T. Kahan, K. Malmqvist, K. P. Öhman, F. Nyström, H. Melhus. B2 bradykinin receptor (B2BKR) polymorphism and change in left ventricular mass in response to antihypertensive treatment. *Journal of Hypertension*: 2003; 21: 621-624.

31. P. Hallberg, L. Lind, K. Billberger, K. Michaëlsson, J. Karlsson, L. Kurland, T. Kahan, K. Malmqvist, K. P. Öhman, F. Nyström, U. Liljedahl, A.C. Syvänen, H. Melhus. Transforming growth factor β 1 genotype and change in left ventricular mass during antihypertensive treatment. *Clinical Cardiology* 2004, March, 27, 169-173.

32. Karin Malmqvist, K Peter Öhman, Lars Lind, Fredrik Nyström, Thomas Kahan. Long Term Effects of Irbesartan and Atenolol on the Renin-Angiotensin-Aldosterone System in Human Primary Hypertension. *J Cardiovasc Pharmacol* 2003, 42, 719-26.

33. H Thorn, K Stenkula, M Karlsson, U Örtengren, F Nystrom, J Gustavsson, P Strålfors. Cell surface orifices of caveolae and localization of caveolin to the necks of caveolae in adipocytes. *Molecular Biology of the Cell* 2003, 14, 3967-76.

34. P Hallberg, L. Lind, K. Michaëlsson, L. Kurland, T. Kahan K. Malmqvist, K. P. Öhman, F. Nyström, Ulrika Liljedahl, Ann-Christin

Syvänen and H. Melhus. Adipocyte-derived leucine aminopeptidase genotype and response to antihypertensive therapy. *BMC Cardiovascular Disorders* 2003;18:3:11.

35. Hallberg P, Karlsson J, Lind L, Michaelsson K, Kurland L, Kahan T, Malmqvist K, Ohman KP, Nystrom F, Liljedahl U, Syvanen AC, Melhus H. Gender-specific association between preproendothelin-1 genotype and reduction of systolic blood pressure during antihypertensive treatment. *Clin Cardiol.* 2004 May;27(5):287-90.

36. U-B Löfgren, U Rosenqvist, T Lindström, C Hallert, FH Nystrom. Diabetes control in Swedish community-dwelling elderly: more often tight than poor. *Journal of Internal Medicine* 2004, 255, 96-101.

37. Unn Örtégren, Margareta Karlsson, Natascha Blazic, Maria Blomqvist, Fredrik Nystrom, Johanna Gustavsson, Pam Fredman and Peter Strålfors. Lipids and glycosphingolipids in caveolae and surrounding plasma membrane of primary rat adipocytes. *European Journal of Biochemistry* 2004, 271, 2028-2036.

38. M Karlsson, H Thorn, A Danielsson, KG Stenkula, A Öst, J Gustavsson, FH Nystrom and P Strålfors. Colocalization of insulin receptor and insulin receptor substrate-1 to caveolae in primary human adipocytes. Cholesterol depletion blocks insulin signalling for metabolic and mitogenic control. *European Journal of Biochemistry* 2004 Jun;271(12):2471-9.

39. H Brändström, F Stiger, T Kahan, H Melhus, F Nyström, KP Öhman, M Malmqvist, L Lind, A Kindmark. A single nucleotide polymorphism in the promoter region of the osteoprotegerin gene is related to intima-media thickness of the carotid artery in hypertensive patients. *Blood Pressure* 2004;13(3):152-7.

40. Yamaguchi M, Kawabata Y, Kambe S, Wardell K, Nystrom FH, Naitoh K, Yoshida H.

Non-invasive monitoring of gingival crevicular fluid for estimation of blood glucose level.

Med Biol Eng Comput. 2004 May;42(3):322-7.

41. Karlsson J, Lind L, Hallberg P, Michaelsson K, Kurland L, Kahan T, Malmqvist K, Ohman KP, Nystrom F, Melhus H. Beta1-adrenergic receptor gene polymorphisms and response to beta1-adrenergic receptor blockade in patients with essential hypertension. *Clin Cardiol.* 2004 Jun;27(6):347-50.

42. K Stenkula, L Said, M Karlsson, H Thorn, P Kjolhede, J Gustavsson, M Söderström, P Stralfors and F Nystrom. Expression of a mutant IRS inhibits metabolic and mitogenic signalling of insulin in human adipocytes. *Molecular and Cellular Endocrinology* 2004 Jun 30;221(1-2):1-8.
43. Danielsson A, Ost A, Lystedt E, Kjolhede P, Gustavsson J, Nystrom FH, Stralfors P. Insulin resistance in human adipocytes occurs downstream of IRS1 after surgical cell isolation but at the level of phosphorylation of IRS1 in type 2 diabetes. *FEBS J.* 2005 Jan;272(1):141-51.
44. Ost A, Ortegren U, Gustavsson J, Nystrom FH, Stralfors P. Triacylglycerol is synthesized in a specific subclass of caveolae in primary adipocytes. *JBC* 2005 (acc. publ.) 280 (1) 5-8.
45. Westergren H, Anna Danielsson, Nystrom F, Strålfors P. Glucose transport is equally sensitive to insulin stimulation, but basal and insulin-stimulated transport is higher in human omental compared with subcutaneous adipocytes. *Metabolism*, 2005 Jun;54(6):781-5.
46. Fredrik Nyström, Karin Malmqvist, Lars Lind, Thomas Kahan. Nurse recorded clinic and ambulatory blood pressures correlate equally well with left ventricular mass and carotid intima-media thickness. *Journal of Internal Medicine*, 2005 Jun;257(6):514-22.
47. Lilian Sauma, Karin G. Stenkula, Preben Kjölhede, Peter Strålfors, Mats Söderström and Fredrik H. Nystrom. PPAR gamma response element activity in intact primary human adipocytes, effects of fatty acids. *Nutrition*, 2006 Jan;22(1):60-8.
48. Peter Anfelter, Göran Granerus, Hugo Stenström, Per Eriksson and Fredrik H. Nystrom. The effect of percutaneous dilatation of renal arterial stenosis on captopril renography in hypertension. *Blood Pressure*, 2005;14(6):359-65.
49. Anna Danielsson, Anita Öst, Fredrik H Nystrom and Peter Strålfors. Attenuation of insulin-stimulated insulin receptor substrate-1 serine 307 phosphorylation in insulin resistance of type 2 diabetes. *JBC* (acc. publ.) 2005 Oct 14;280(41):34389-92.
50. Erika Lystedt, Hanna Westergren, Jan Brynhildsen, Johanna Gustafsson, Lotta L-Åstrand, Fredrik Nyström, Mats Hammar, Peter Strålfors. Subcutaneous adipocytes from obese hyperinsulinemic women with PCOS exhibit normal insulin-sensitivity but reduced maximal insulin-responsiveness. *European Journal of Endocrinology*, 2005 Dec;153(6):831-5.

51. Anna Danielsson, Fredrik H Nystrom and Peter Strålfors. Phosphorylation of IRS1 at ser312 in response to insulin in human adipocytes. *Biochem Biophys Res Commun*, 2006 Apr 21;342(4):1183-7.
52. J Janke, M Schupp, S Engeli, K Gorzelniak, M Boschmann, L Sauma, F H Nystrom, J Jordan, F C Luft, and A M Sharma. Angiotensin Type 1 Receptor Antagonists Induce Human in vitro Adipogenesis through PPAR gamma Activation. *J Hypertens*. 2006 Sep;24(9):1809-1816.
53. Unn Örtegren, Lan Yin, Anita Öst, Helen Karlsson, Fredrik H Nystrom, and Peter Strålfors. Separation and characterization of caveolae subclasses in the plasma membrane of primary adipocytes, segregation of specific proteins and functions. *FEBS J*. 2006 Jul;273(14):3381-92.
54. L. Sauma, N. Franck, J. F. Paulsson, G. T. Westermark, P. Kjølhede, P. Strålfors, M. Söderström and F. H. Nystrom. PPAR gamma activity is low in mature primary human visceral adipocytes. *Diabetologia*, 2007 Jan;50(1):195-201.
55. Claesson I-M, Josefsson A, Cedergren M, Brynhildsen J, Jeppsson A, Nyström F, Sydsjö A, Sydsjö G. Consumer satisfaction with a weight gain intervention program for obese pregnant women. *Midwifery* 2008 June 24 (2) 163-7.
56. N. Franck, K. G. Stenkula, A. Öst, T Lindström, P. Strålfors and F. H. Nystrom. Insulin-induced GLUT4 translocation to the plasma membrane is blunted in large compared with small primary fat cells isolated from the same subject. *Diabetologia*. 2007, Aug;50(8):1716-22.
57. A. Öst, M. Liden U. Eriksson F.H. Nystrom and P Strålfors. Retinol-binding protein-4 attenuates insulin-induced phosphorylation of IRS1 and ERK1/2 in human adipocytes. *FASEB J*, 2007 Nov;21(13):3696-704.
58. Karin G. Stenkula, Hans Thorn, Niclas Franck, Elisabeth Hallin, Lilian Sauma, Fredrik H. Nystrom and Peter Strålfors. Human, but not rat, IRS1 targets to the plasma membrane in both human and rat primary adipocytes. *Biochem Biophys Res Commun*. 2007 Nov 23;363(3):840-5.
59. Rydell J, Knutsson H, Pettersson J, Johansson A, Farneback G, Dahlqvist O, Lundberg P, Nyström F, Borga M. Phase sensitive reconstruction for water/fat separation in MR imaging using inverse gradient. *Med Image Comput Comput Assist Interv*. 2007;10(Pt 1):210-8 2007;10(Pt 1):210-8.
60. Stergios Kechagias, Åsa Ernersson, Olof Dahlqvist, Peter Lundberg, Torbjörn Lindström and Fredrik H Nystrom. Fast food based hyper-

- alimentation can induce rapid and profound elevations of serum aminotransferase levels in healthy subjects, *Gut* 2008;57(5):649-54.
61. Claesson I-M, Sydsjö G, Brynhildsen J, Cedergren M, Jeppsson A, Nyström F, Sydsjö A, Josefsson A. Weight gain restriction for obese pregnant women: A case-control intervention study. *British Journal of Obstetrics and Gynaecology*, 2008 Jan;115(1):44-50.
62. Olof Dahlqvist Leinhard, Andreas Johansson, Joakim Rydell, Örjan Smedby, Fredrik Nyström, Peter Lundberg, Magnus Borga. Quantitative Abdominal Fat Estimation Using MRI. 19th International Conference on Pattern Recognition (2008: Tampa, FL, USA). Tampa: IAPR, 2008.
63. S. Erlingsson, S. Herard, O. Dahlqvist Leinhard, T. Lindström, T. Länne, M. Borga and F. H. Nystrom. Men develop more intra abdominal obesity and signs of the metabolic syndrome following hyper-alimentation than women. *Metabolism*, 2009 58(7):995-1001
64. Elsa M. Dahlén, Toste Länne, Jan Engvall, Torbjörn Lindström, Ewa Grodzinsky, Fredrik H. Nystrom and Carl J. Östgren. Carotid intima-media thickness and apolipoproteinB / apolipoprotein A-I ratio in middle aged patients with type 2 diabetes. *Diabetic Medicine*, 2009:26(4):384-90.
65. Anna-Lena Claesson, Gunilla Holm, Åsa Ernersson, Torbjörn Lindström and Fredrik H Nystrom. Two weeks of overfeeding with candy, but not peanuts, increases insulin levels and body weight. *Scand J Clin Lab Invest* 2009;69(5):598-605.
66. Magnus Wijkman, Toste Länne, Jan Engvall, Torbjörn Lindström, Carl Johan Östgren and Fredrik H Nystrom. Masked nocturnal hypertension - a novel marker of risk in type 2 diabetes. *Diabetologia*, 2009:52(7):1258-64.
67. K Kos, S Wong, B Tan, A Gummesson, M Jernas, N Franck, D Kerrigan, FH Nystrom, LMS Carlsson, H Randeva, JH Pinkney, and JPH Wilding. Regulation of the fibrosis and angiogenesis promoter SPARC/ osteonectin in human adipose tissue by weight change, leptin, insulin and glucose. *Diabetes*, 2009 58(8):1780-8.
68. Anna Danielsson, Siri Fagerholm, Anita Öst, Niclas Franck, Preben Kjolhede, Fredrik H Nystrom, Peter Strålfors. Short-term over-eating induces insulin resistance in fat cells in lean human subjects. *Molecular Medicine*, 2009 15 (7-8):228-34.
69. Å Ernersson, T Lindström, F H Nystrom and G Hollman Frisman. Young healthy individuals develop lack of energy when adopting an

obesity provoking behaviour for 4 weeks: a phenomenological analysis. *Scand J Caring Sciences*, 2010 Sep;24(3):565-71.

70. Anders Jormeus, Samuel Karlsson, Christina Dahlgren, Torbjörn Lindström and Fredrik H. Nystrom. Doubling of water intake increases daytime blood pressure and reduces vertigo in healthy subjects. *Clin Exp Hypertension*, 2010;32(7):439-43.

71. Stenestrand U, Wijkman M, Fredrikson M and Nystrom FH. Association between admission supine systolic blood pressure and 1-year mortality in patients admitted to the intensive care unit for acute chest pain. *JAMA*, 2010, 303 (12): 1167-1172.

72. I Fredriksson, M Larsson, F H Nyström, T Länne, C J Östgren, T Strömberg. Reduced arterio-venous shunting capacity after local heating and redistribution of baseline skin blood flow in type 2 diabetes assessed with velocity-resolved quantitative laser Doppler flowmetry. *Diabetes*, 2010 Jul;59(7):1578-84.

73. P Eriksson, A A Mohammed, J De Geer, J Kihlberg, A Persson, G Granerus, F Nyström and Ö Smedby. Non-invasive investigations of potential renal artery stenosis in renal insufficiency. *Nephrology Dialysis Transplantation*, 2010 Nov;25(11):3607-14.

74. Wallhuss A, Isik M, Nystrom FH. Comparison of the subjective sense of high or low metabolism and objectively measured resting metabolic rate, *Scand J Clin Lab Invest*. 2010 Sep;70(5):334.

75. Ernersson A, Nystrom FH, Lindström T. Long-term increase of fat mass after a four week intervention with fast food based hyper-alimentation and limitation of physical activity. *Nutr Metab (Lond)*. 2010 Aug 25;7:68.

76. Lindström T, Kechagias S, Carlsson M, Nystrom FH. Transient increase in HDL-cholesterol during weight gain by hyperalimentation in healthy subjects. *Obesity (Silver Spring)*. 2011 Apr;19(4):812-7.

77. Astrand O, Carlsson M, Nilsson I, Lindstrom T, Borga M, Nystrom FH. Weight gain by hyperalimentation elevates C-reactive protein levels but does not affect circulating levels of adiponectin or resistin in healthy subjects. *Eur J Endocrinol*. 2010 Dec;163(6):879-85 2010.

78. Anders Tengblad, Toste Länne, Jan Engvall, Fredrik Nyström, Carl Johan Östgren. Sagittal abdominal diameter and waist circumference as markers of early organ damage in patients with type 2 diabetes. *The Journal of Clinical Metabolism & Diabetes*, 2011; 2:(1) 1-6.

79. Niclas Franck, Anders Gummesson, Margareta Jernås, Camilla Glad, Per-Arne Svensson, Gilles Guillot, Mats Rudemo, Fredrik H Nyström, Lena M.S. Carlsson and Bob Olsson. Identification of adipocyte genes regulated by caloric intake. *J Clin Endocrinol Metab.* 2011 Feb;96(2):E413-8.
80. Ernersson A, Frisman GH, Sepa Frostell A, Nyström FH, Lindström T. An obesity provoking behaviour negatively influences young normal weight subjects' health related quality of life and causes depressive symptoms. *Eat Behav.* 2010 Dec;11(4):247-52.
81. Robert Kronstrand, Linda Brinkhagen, Fredrik H. Nyström. Ethyl glucuronide in human hair after daily consumption of 16 or 32 grams of ethanol daily for 3 months. 2011, *Forensic Science International* 2012 Feb 10;215(1-3):51-5.
82. Pär E:son Jennersjö, Magnus Wijkman, Ann-Britt Wiréhn, Toste Länne, Jan Engvall, Fredrik H. Nystrom, Carl J. Östgren. Circadian blood pressure variation in patients with type 2 diabetes – relationship to macro- and microvascular subclinical organ damage. *Primary Care Diabetes*, 2011 Oct;5(3):167-73.
83. S Kechagias, S Zanjani, S Gjellan, O Dahlqvist Leinhard, J Kihlberg, Ö Smedby, L Johansson, J Kullberg, H Ahlström, T Lindström, and FH Nystrom. Effects of moderate red wine consumption on liver fat and blood lipids: a prospective randomized study. *Annals of Medicine*, 2011 Nov;43(7):545-54
84. Elsa M. Dahlén, Thomas Andreasson, Magnus Cinthio, Fredrik H. Nystrom, Carl Johan Östgren, Toste Länne, Is there an Underestimation of Intima-Media Thickness based on M-mode Ultrasound technique in the Abdominal Aorta? *Clinical Physiology and Functional Imaging*, 2012 Jan;32(1):1-4.
85. Martin Carlsson, Torbjörn Lindström, Fredrik Nyström, Ingela Nilsson, Lars Brudin, Pär Wanby. Evidence of Daytime Variation of Asymmetric Dimethylarginine. An Intervention Study with Rosiglitazone in Type 2 Diabetes. *Open Endocrinology Journal*, in press.
86. Nyman E, Brännmark C, Palmér R, Brugård J, Nyström FH, Strålfors P, Cedersund G A hierarchical whole-body modeling approach elucidates the link between in Vitro insulin signaling and in Vivo glucose homeostasis. *J Biol Chem.* 2011 Jul 22;286(29):26028-41.
87. T. Romu, O. Dahlqvist Leinhard, M. F. Forsgren, S. Almer, N. Dahlström, S. Kechagias, F. Nyström, Ö. Smedby, P. Lundberg, and M.

Borga. Fat Water Classification of Symmetrically Sampled Two-Point Dixon Images Using Biased Partial Volume Effects. Proceedings of the annual meeting of the International Society for Magnetic Resonance in Medicine (ISMRM 2011), 2011.

88. Niclas Franck, Toste Länne, Olov Åstrand, Jan Engvall, Torbjörn Lindström, Carl Johan Östgren and Fredrik H Nystrom. Cardiovascular risk factors related to the PPAR γ Pro12Ala polymorphism in patients with type 2 diabetes are gender-dependent. *Blood Pressure* 2012 Apr;21(2):122-7.

89. P E:son Jennersjö, J Ludvigsson, T Länne, FH. Nystrom, J Ernerudh, CJ Östgren, Pedometer-determined physical activity is linked to low systemic inflammation and low arterial stiffness in type 2 diabetes, *Diabetic Medicine*, 2012 Sep;29(9):1119-25

90. H Guldbrand, B Dizdar, B Bunjaku, T Lindström, M Bachrach-Lindström, M Fredrikson, C J Östgren and F H Nystrom, Randomization to a low-carbohydrate diet advice transiently improves glycaemic control compared with a low-fat diet at similar weight-loss in type 2 diabetes. *Diabetologia* 2012 Aug;55(8):2118-27.

91. Magnus Wijkman, Toste Länne, Ewa Grodzinsky, Carl Johan Östgren, Jan Engvall and Fredrik H Nystrom. Ambulatory systolic blood pressure predicts left ventricular mass in type 2 diabetes, independently of central systolic blood pressure. *Blood Pressure monitoring*, 2012 Aug;17(4):139-44.

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XIII Books and Book Chapters

”24-timmarsblodtrycksmätning”, 2003, Fredrik Nyström and Anders Himmelmann, DMF, ISBN 91-974301-8-8

Book chapter ”Perspektiv mot Framtiden” in ”Metabola Syndromet” 2006, editors Peter M Nilsson etc., Studentlitteratur, ISBN91-44-04473-9

”Hypertoni och Metabola Syndromet”, 2008, editor Fredrik Nyström, Studentlitteratur, ISBN: 9789144049427.

”Hypertoni och 24-timmars blodtrycksmätning”, 2009, editors Fredrik Nyström and Thomas Kahan, Studentlitteratur, ISBN 9789144047973.

”Kardiovaskulär medicin”, 2010, U Dahlström, L Jonasson and F Nystrom, editors. The three chapters on Obesity, Metabolic syndrome and Hypertension, respectively, are written by F Nystrom. Liber.

“Ät upp till bevis” Optimal förlag 2010, ISBN 9172411996

Chapter: “Hypertoni”, Läkemedelsboken 2011-2012, co-author Peter Engfelt.

”Diabetes och metabola syndromet”, editor with prof. Peter M Nilsson, Studentlitteratur, 2012., New revised edition, with third editor Christian Berne added, in 2019.

XIV Significant other reports

Swedish Council on Health Technology Assessment, report on “Home Blood Pressure” (“Hem blodtryck”) written with Eva Drevenhorn 2010

Swedish Council on Health Technology Assessment report “Food in obesity” (“Mat vid fetma”) 2013, member of the board of experts.