

Dr Bo Norberg
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Office computer ("Presentation"), updated June 27, 2005

Bo O. Norberg
Curriculum vitae April, 2004

Full name

Bo Oskar Norberg

Date and place of birth

Febr 22, 1936, Norsjö, Sweden

Schooling

Compulsory school in Långträsk 1944-50 and Bastuträsk 1950-51 (7 years).

Practical work in farming, forest-keeping and lumbering 1951-53.

The Christian Folk High-School of Solvik, Frostkåge, 1953-55.

Senior High School, The Private Elementary School of Lund, 1955-57, humanistic line.

Military service 1957-58.

Senior High School, complementary studies in natural sciences (mathematics, physics, chemistry, biology) 1958-59, Lund.

Professional and scientific training

Medical studies at the University of Lund from 1959.

Scientific training beside medical studies from 1964 in the Department of Internal Medicine, Lund.

Authorized as M.D. in 1971, as specialist of Internal Medicine 1975 and as specialist in Haematology 1976 by the Swedish National Board of Health.

Dissertation and "title docent" in experimental medicine 1971 (the title is thought to be equivalent to the PHD of USA, also often translated "associate professor"). Appointed an Associate Professor of Internal medicine at the University of Lund 1975. Then service as senior registrar, clinical lecturer and consultant in internal medicine and haematology at the Department of Internal Medicine, University Hospital of Lund 1975-80 and Department of Internal Medicine, University Hospital of Umeå 1980-87. Senior registrar (extra läkare med bülön) at Blood Centre, Umeå 1988-01-01 to 1989-06-30. Due to loss of detail vision (pseudoxanthoma elasticum, Medical Trouble-Shooting, p. 28) halftime service as senior registrar (avd.läk., 23 hours a week) at the Department of Internal Medicine up to Febr 1, 2001; halftime "pension" (in reality free research time). The service included the tutoring of medical students and advice to scientists, institutions and companies. For chronological reasons, I retired from the position of senior registrar Febr 1, 2001, as is the Swedish law. Since then, I have an informal position as "guest

researcher" and teacher in the same department. My quest is to prepare the probands of the families with premature myocardial infarcts for biomolecular analyses (cf paper 113), to guide Mats Nilsson to dissertation (original papers 108, 110-112, 114, and tree papers in preparation), to edit The Rondel, give lectures on demand, and teach students in clinical practise.

The successes of my career include the guidance of my exwife to her first professorship in nursing research 1980, my teaching of medicine to dental students in Umeå for 9 1/2 years, resulting in the compendium Integrated Medicine (200 copies, 114 pages) and together with Mörnstad "Medical Trouble-Shooting" (4000 copies, 162 pages). Furthermore, I have headed 7 NLV-SK week courses in Medicine for Primary Health Care (participants physicians in training for specialty), and the two first NLV/SK week courses of Oral Medicine in Sweden. From about 1984 to 1988 I promoted the development of the national association of patients with blood disorders (Riksförbundet för Blodsjuka), together with the late Arne Kristensson and the late professor Peter Reizenstein, MD. Another success was the guidance of Swedish neurologists to consensus in the vitamin B12 question (Läkartidningen No. 22, 1992).

Together with Kent Vänman, I edited the journal of the department, *Invärtes & Utvärtes* (Internal & External), from Oct 1994 to May 1998, 55 issues. I served as director for the training of future specialists in internal medicine and allied specialties at the department ("ST-rektor") from May 1995 to Oct 1998. In co-operation with about 20 independent co-workers, I am launching a national post-doctoral education programme on B12-associated clinical problems with physicians of primary health care as target group. The visual manifestations of this programme have been the discussion book "Controversies around vitamin B12" (Swe) (Pedagogförlaget, Klippan, Sweden 1998), 4,000 copies, and the electronic paper-free quarterly *The Rondel* (www.rondellen.net) in Swedish and English. I was one of four editors for the book "Controversies...". I also was co-author in four of the twelve chapters of the book. From start Oct 1, 1999, I am the editor of *The Rondel*.

I have guided five younger scientists to dissertation, and by now at least the skill

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corresponding to "PhD". I was sole scientific tutor (handledare) for Ulf Bandmann and Lars Rydgren, co-tutor with Lennart Domellöf as main tutor for Leif Athlin, main tutor with TK Nilsson and Kurt Boman for J-H Jansson, co-tutor for Mats Nilsson. The dissertations were:

1. Bandmann U. The effects of antitubulins on human polymorphonuclear leucocyte chemotaxis. Lund, Sweden 1976.

2. Rydgren L. The role of time-lapse filming in the analysis of human leukocyte locomotion. Lund, Sweden 1980.

3. Athlin L. The human macrophage system. Effects of antineoplastic agents in vivo and in vitro. Umeå, Sweden 1986.

4. Jansson J-H. Studies on haemostasis in deep vein thrombosis, ischaemic heart disease and hypertension. With special reference to the fibrinolytic system. Umeå, Sweden 1990.

5. Nilsson M. Cobalamin communication in Sweden 1990-2000. Views, knowledge and practice among Swedish physicians. Umeå, Sweden 2005.

Now follows a detailed "curriculum vitae" in Swedish, a list of my original scientific papers in international language, scientific papers in Swedish, review papers, editorials, proceedings, letters to the editor, abstracts.

Sammanfattning av utbildning, arbetserfarenhet, vetenskaplig verksamhet, och pedagogiska meriter för Bo Norberg, Tvärågatan 1 L, 903 55 Umeå

Curriculum vitae

Född i Norsjö församling, Vb län, 1936-02-22. 7-årig folkskola, 1944-50 i Långträsk och 1950-51 i Bastuträsk.

Studieuppehåll med förvärvsarbete i jordbruk och skogsbruk 1951-53. Ett par månaders feriearbete varje år i nämnda näringar 1954-56. Studier vid Solviks Kristliga Folkhögskola 1953-55, motsvarande 4-årig realskola, och realexamen som privatist i Piteå våren 1955.

Studier vid Lunds Privata Elementarskola 1955-57, motsvarande 4-årig latinlinje, och studentexamen på halvklassisk linje våren 1957. Militärtjänst som sjukvårdare 1957-58.

Komplettering med studentbetyg i biologi, kemi, fysik och matematik samt

universitetsstudier i psykologi (ett betyg) 1958-59.

Med Kand examen 1961-05-30 i Lund.

Under perioden 1958 - 1962 feriearbetade jag någon vecka på Trelleborgs Gummifabrik (hälsovådligt arbete), sammanlagt 2-4 månader som vikarierande mentalskötare på Umedalens Sjukhus och Vipeholms Sjukhus, och en månad som vikarierande lab.sköterska vid Umeå Lasarett.

Under perioden 1963 - 1971 varvade jag de fria kurserna med läkarvikariat med medicinsk inriktning, och från 640301 forskarutbildning, först som 1:e amanuens vid Med Klin i Lund 640301 - 671031, senare som doktorandstipendiat vid Medicinkliniken i Lund 680901 - 710531. Läkarvikariatet under den här perioden översteg 16 månader, veckoslutsjourer som distriktsläkare omkring en gång i månaden oräknade.

Disputation för Med Dr. grad ägde rum 1971-04-02 och avhandlingen fick högsta betyg, "Berömlig". Jag blev docent i experimentell medicin 1971-12-14 och i invärtes medicin 1975-05-27.

Jag blev leg läk. 1971-06-21. AT-tjänstgöring höll på att införas under den här perioden. Jag fick tillgodoräkna delar av tidigare tjänstgöringar och började utbildning i internmedicin vid Medicinkliniken i Lund 1971-12-01. Jag fick specialistkompetens i allmän internmedicin 1975-01-22 och behörighet i hematologi 1976-02-26.

Under perioden 1975-09-01 - 1976-10-03 hade jag en forskarmånad med biträde i sjukvården, 4 månader som klin lär/böl, och 9 månader randutbildning på Njurmedicinska Kliniken i Lund.

Perioden 1976-10-04 - 1980-08-31 arbetade jag som biträdande överläkare vid Medicinkliniken i Lund, småningom med fast tjänst.

Utom den kliniska och vetenskapliga verksamheten var jag under perioden 1972 - 78 administrativt ansvarig för medicinklinikens cytologiska laboratorium och bedömde självständigt uppskattningsvis 2.500 benmärgspreparat och därtill en hel del andra aspirationsbiopsier från exempelvis lever, mjälte, lymfkörtlar, thyroidea och prostata.

Av familjeskäl flyttade jag till Umeå och vikarierade som avdelningsläkare vid

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Medicinkliniken, RiUm 1980-09-01 - 1983-08-31, som biträdande överläkare 830901 - 831130, som klin lär/böl 850201 - 871231. Fast tjänst som al vid Medicinkliniken 831201. Vikariat som extra läkare vid Blodcentralen 19880101 - 890630. Därefter halvt sjukskriven och senare halvt sjukpensionerad p.g.a. bilateral maculaskada med förlust av detaljseende. Sedan 19890701 halvtids arbete (23 veckotimmar) som avdelningsläkare, anpassad tjänst. Arbetet bestod i att handleda medicine kandidater i mottagningsarbete, bedriva utredningar av problemfall i öppenvård, forska om ärftliga sjukdomar, och ge vetenskaplig service till forskare, institutioner och företag. Sedan okt. 1994 redigerade jag tillsammans med Kent Vänman klinikkens informationsblad fram till maj 1998(55 nr), Invärtes & Itvärtes. Från maj 1995 till okt 1998 var jag studierktor för blivande specialisters utbildning vid kliniken ("ST-rektor"). Under perioden har jag varit administrativt ansvarig för 4 halvdagskurser med Janne Nording, "Personligt Effektivitetsprogram", och 4 tvådagarskurser med Glenn Granström, "Ledarskap i vården".

Under perioden 1971 - 2001 har jag deltagit i den kliniska undervisningen av olika elever i medicinsk utbildning (sjuksköterskor, tandläkarelever, läkarelever). Våren 200 fick jag ett pris i medicinsk pedagogik av Medicinska Institutionen, 5.000 kr att disponeras som forskningsanslag. Jag har också anlitats som föreläsare i NLV-kurser och andra sammanhang. Som kursledare har jag varit ansvarig för nio NLV-kurser. Efter ålderspensionering 010201 har jag en informell ställning som "gästforskare" vid Medicinska Institutionen i Umeå. Jag ska förbereda medlemmar i familjer med hjärtinfarkt i unga år att lämna information och prover till det genetiska projektet Genos, handleda Mats Nilsson till avhandling (original papers 108, 110-112 samt tre artiklar till under skrivning), redigera Rondellen, handleda läkarelever i konsultationsteknik.

Vetenskaplig och pedagogisk verksamhet

På de följande sidorna grupperar jag arbetena i följande ordning med antal tryckta eller accepterade för tryckning inom parentes.

Original papers (112)
Svenska arbeten (12)
Reviews (1)
Editorials (5)
Proceedings (7)

Letters to the Editor (4)
Uppdrag "invited speaker" (6)
Studieresor (2)
Kongressdelt utan föredrag (3)
Abstrakt (eng.) (30)
Föredrag på svenska (30)
Populärvetenskapliga art. (5)
Vetenskaplig handl. (4 elever)
Kursledare NLV-kurs INVÄRTESMEDICIN FÖR ALLMÄN MEDICINARE (85-91) (7 st)
Kursledare NLV-SK kurs ORAL MEDICIN (2 kurser)

Original papers (1-114)

1. Norberg B, Söderström N. Radial segmentation of the nuclei in lymphocytes and other blood cells induced by some anticoagulants. *Scand J Haematol* 1967; 4: 68-76.
2. Norberg B, Söderström N. The effect of demecolcine on the oxalate-induced formation of radial-segmented nuclei (Rieder cells). *Scand J Haematol* 1967; 4: 161-68.
3. Norberg B. The influence of temperature on the formation of radial-segmented nuclei in human lymphocytes and monocytes. *Scand J Haematol* 1968; 5: 255-63.
4. Norberg B. Segmentation radiale du noyau des cellules polynucléées du sang et el la moelle osseuse (Formation des cellules de Rieder). *Nouv Rev Franc Hémat* 1969; 9: 191-98.
5. Norberg B. Neutrophil segmentation and radial segmentation. Effects of cooling and demecolcine on the lobulation of neutrophil nuclei. *Scand J Haematol* 1969; 6: 272-79.
6. Norberg B. Cytoplasmic microtubules and radial-segmented nuclei (Rieder cells). Effects of vinblastine, sulfhydryl reagents, heparin and caffeine. *Scand J Haematol* 1969; 6: 312-18.
7. Norberg B. Cytoplasmic microtubules and radial-segmented nuclei (Rieder cells). Effects of osmolality, ionic strength, pH, penetrating non-electrolytes, griseofulvine and a podophylline derivative. *Scand J Haematol* 1970; 7: 349-56.
8. Norberg B. Cytoplasmic microtubules and radial-segmented nuclei (Rieder cells).

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- Ultrastructural studies. *Scand J Haematol* 1970; 7: 445-54.
9. Norberg B. Statistical analysis of the radial segmentation of lymphocyte and monocyte nuclei in vitro. *Blut* 1970; 21: 295-300.
10. Norberg B. Amoeboid movements and cytoplasmic fragmentation of glycerinated leukocytes induced by ATP. *Exp Cell Res* 1970; 59: 11-21.
11. Norberg B. The formation of an ATP-induced constriction ring in a glycerinated lymphocyte during migration. *Scand J Haematol* 1971; 8: 75-80.
12. Norberg B. Contractile processes in human lymphocytes and monocytes from peripheral blood. The oxalate-induced radial segmentation of the nuclei and the ATP-induced migration of glycerinated cell models. *Scand J Haematol* 1971, Suppl 14.
13. Norberg B, Uddman R. The oxalate-induced radial segmentation of the nuclei of lymphocytes and monocytes from peripheral blood. A possible screening test for metaphase-blocking agents. *Blut* 1973; 26: 261-67.
14. Norberg B, Rydgren L, Söderström N. Lymphocyte locomotion. Morphological criteria of the direction of lymphocyte movement. *Lymphology* 1973; 6: 187-91.
15. Söderström N, Norberg B. Observations regarding the specific post-capillary venules of lymph nodes in malignant lymphomas. *Acta Path Microbiol Scand Sect A* 1974; 82:71-79.
16. Bandman U, Rydgren L, Norberg B. The difference between random movement and chemotaxis. Effects of antitubulins on neutrophil granulocyte locomotion. *Exp Cell Res* 1974; 88: 63-73.
17. Norberg B, Rydgren L, Stenstam M. Amoeboid movement configuration. A cell configuration observed in tumour cells from three cases of bone marrow neoplasia. *Scand J Haematol* 1974; 13:294-304.
18. Bandmann U, Norberg B, Rydgren L. Polymorphonuclear leukocyte chemotaxis in Boyden chambers. Effect of low concentrations of vinblastine. *Scand J Haematol* 1974; 13: 305-12.
19. Stenstam M, Mecklenburg C, Norberg B. The ultrastructure of spontaneous radial segmentation of the nuclei in bone marrow cells from 3 patients with acute myeloid leukaemia. *Scand J Haematol* 1975; 15: 63-71.
20. Bandmann U, Norberg B, Simmingsköld G. Griseofulvin inhibition of polymorphonuclear leucocyte chemotaxis in Boyden chambers. *Scand J Haematol* 1975; 15: 81-87.
21. Rydgren L, Simmingsköld G, Bandmann U, Norberg B. The role of cytoplasmic microtubules in polymorphonuclear leucocyte chemotaxis. Evidence for the release hypothesis by means of time-lapse analysis of PMN movement relative to dot-like attractants. *Exp Cell Res* 1976; 99: 207-20.
22. Söderström U-B, Norberg B, Brandt L. The oxalate-induced radial segmentation of nuclei in peripheral blood lymphocytes of different size. *Scand J Haematol* 1976; 17: 57-61.
23. Rydgren L, Norberg B, Håkansson C-H, Mecklenburg C, Söderström N. Lymphocyte locomotion I. The initiation, velocity, pattern and path of locomotion in vitro. *Lymphology* 1976; 9: 89-96.
24. Rydgren L, Norberg B, Mecklenburg C, Håkansson C-H, Söderström N. Lymphocyte locomotion II. The lymphocyte traffic over the post-capillary venules analysed by phase contrast microscopy of thin sections of rat lymph nodes. *Lymphology* 1976; 9: 96-100.
25. Rydgren L, Norberg B, Mecklenburg C, Håkansson C-H, Söderström N. Lymphocyte locomotion III. Ultrastructural studies of the lymphocyte traffic over the post-capillary venules of rat lymph nodes. *Lymphology* 1976; 9: 150-54.
26. Sjögren U, Norberg B, Rydgren L. Amoeboid movement configuration in tumour cells of bone marrow smears from patients with leukaemia. Incidence and significance. *Acta Med Scand* 1977; 201: 381-86.
27. Simmingsköld G, Rydgren L, Norberg B, Söderström U.B, Pontén J. Cytochalasin B partially inhibits the oxalate-induced radial segmentation of monocleated blood cells. *Scand J Haematol* 1977; 19: 33-38.

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28. Norberg B, Rydgren L, Norberg A. Initiation and direction of polymorphonuclear leucocyte locomotion. The particle collision hypothesis. *Medical Hypotheses* 1978; 4: 27-30.
29. Bäck O, Bandmann U, Norberg B, Söderström U-B. Direct chemotaxis and leucocyte induced chemotaxis of polymorphonuclear leukocytes. Significance of complement, incubation time and chemotactic parameters in filter chamber assays. *Scand J Haematol* 1978; 20: 108-16.
30. Simmingsköld G, Bandmann U, Norberg B. Mononuclear leucocyte chemotaxis in Boyden chambers. Inhibition by subantimitotic concentrations of antitubulins. *Scand J Immunol* 1978; 7: 233-38.
31. Rydgren L, Norberg B, Svensson B, Simmingsköld G. The phagocytosis-associated chemotaxis of human mononuclear leucocytes is not inhibited by antitubulins. *Scand J Immunol* 1978; 7: 251-57.
32. Norberg B, Gippert H, Norberg A, Parkhede U, Rydgren L. Locomotion and phagocytosis of polymorphonuclear leucocytes (PMNs) in infected urine. Reversal of PMN polarity. *Europ Urol* 1978; 4: 438-40.
33. Norberg B, Norberg A, Parkhede U, Gippert H, Åkerman M. The effect of short-term high-dose treatment with methenamine hippurate of urine infection in geriatric patients with indwelling catheters I. The preparation and morphology of a quantified urine sediment. *Upsala J Med Sci* 1979; 84: 67-74.
34. Norberg A, Norberg B, Parkhede U, Gippert H, Ekman R. The effect of short-term high-dose treatment with methenamine hippurate of urine infection in geriatric patients with indwelling catheters II. Evaluation by means of a quantified urine sediment. *Upsala J Med Sci* 1979; 84: 75-82.
35. Norberg B, Norberg A, Parkhede U, Gippert H. Effect of short-term high-dose treatment with methenamine hippurate on urinary infection in geriatric patients with an indwelling catheter IV. Clinical evaluation. *Europ J Clin Pharmacol* 1979; 15: 357-61.
36. Söderström U-B, Simmingsköld G, Norberg B, Bäck O, Rydgren L. Analysis of polymorphonuclear leukocyte (PMN) migration by the leading-front technique. Random locomotion and chemotaxis. *Exp Cell Res* 1979; 121: 325-29.
37. Rydgren L, Brodin H, Håkansson C-H, Norberg B, Westrup C. The computer leucocyte. Analysis of the role of random movement in the behaviour of leucocytes in a visual field. *Scand J Haematol* 1980; 25: 45-50.
38. Norberg A, Norberg B, Lundbeck K, Parkhede U. Urinary pH and the indwelling catheter. *Upsala J Med Sci* 1980; 85: 143-50.
39. Norberg A, Norberg B, Gippert H, Bexell G. Ethical conflicts in long-term care of aged patients. Analysis of nutritional problems and the patient-caretaker relationship. *Brit Med J* 1980; 280: 377-778.
40. Bexell G, Norberg A, Norberg B, Gippert H. Ethical conflicts in long-term care of aged patients. Analysis of the tube-feeding decision by means of a teleological ethical model. *Ethics Sci Med* 1980; 7: 141-45.
41. Gippert H, Norberg B, Norberg A, Lundbeck K. Symptomatic bacteriuria in non-catheterized geriatric patients with urinary incontinence. The effect of short-term two-dose treatment with cefuroxime. *J Clin Exp Gerontol* 1980; 2: 113-22.
42. Norberg A, Norberg B, Parkhede U, Gippert H, Lundbeck K. Randomized double-blind study of prophylactic methenamine hippurate treatment of patients with indwelling catheters. *Europ J Clin Pharmacol* 1980; 18: 497-500.
43. Norberg B, Norberg A, Gippert H. The glutaraldehyde-fixed cyto centrifuge prepared urine sediment in the evaluation of urinary tract infection. The significance of pyuria. *Acta Pathol Microbiol Scand Sect B* 1980; 88: 277-79.
44. Norberg A, Norberg B, Bexell G. Ethical problems in feeding patients with advanced dementia. *Brit Med J* 1980; 281: 847-49.
45. Simmingsköld G, Norberg B, Norberg A, Söderström U-B. The antitubulin activity of vinblastine and vincristine. Clinical implications of the radial segmentation test. *Europ J Clin Pharmacol* 1981; 19: 413-16.
46. Norberg B, Ekelund L, Norberg A. The formation of bladder stones in long-stay geriatric

inpatients with indwelling catheters. *J Clin Exp Gerontol* 1981; 3: 231-39.

47. Gippert H, Norberg A, Norberg B, Kalmeter G, Bukh N. Symptomatic bacteriuria in non-catheterized geriatric patients with urinary incontinence; the effect of short-term treatment with pivmecillinam-pivampicillin. *J Antimicrob Chemother* 1981; 7: 185-91.

48. Bjelle A, Norberg B, Sjögren G. The cytology of joint exudates in rheumatoid arthritis. Morphology and preparation techniques. *Scand J Rheumatol* 1982; 11: 124-28.

49. Parkhede U, Norberg B, Norberg A, Eriksson S. The effect of treatment with methenamine hippurate of urinary tract infection in long-stay geriatric in-patients with indwelling catheters III. Evaluation by urine viscosimetry. *J Clin Exp Gerontol* 1982; 4: 71-81.

50. Norberg B, Norberg A, Odelhög S-O, Parkhede U, Gippert H. The bacteriuria in long-stay geriatric inpatients with an indwelling catheter. A copper-coated urinary catheter. *Upsala J Med Sci* 1982; 87: 179-87.

51. Wahlin A, Holm J, Osterman G, Norberg B. Evaluation of serial bone X-ray examination in multiple myeloma. *Acta Med Scand* 1982; 212: 385-87.

52. Norberg B, Bjelle A, Eriksson S. Joint fluid leukocytosis of patients with rheumatoid arthritis. Computer analysis of possible explanative factors. *Clin Rheumatol* 1983; 2: 53-56.

53. Nilsson F, Norberg B, Frederiksen B, Eriksson S. The role of the MA-sensitive leukocyte chemotaxis in rheumatoid arthritis. A double-blind randomized clinical trial of griseofulvin treatment. *Scand J Rheumatol* 1983; 12: 113-18.

54. Norberg B, Bjelle A, Eriksson S. Joint fluid leukocytosis of patients with rheumatoid arthritis. Evidence for neutrophil and monocyte chemotaxis in vivo. *Clin Rheumatol* 1983; 2237-42.

55. Norberg B, Norberg A, Parkhede U. The spontaneous variation of catheter life in long-stay geriatric inpatients with indwelling catheters. *Gerontology* 1983; 29: 332-35.

56. Norberg A, Odelhög SO, Norberg B, Lundbeck K. The urine smell around patients with urinary incontinence: Laboratory tests of a diaper impregnated with copper acetate. *J Clin Exp Gerontol* 1983; 5: 1-9.

57. Häggbom P, Norberg B, Norberg A. The urine smell around patients with urinary incontinence: Animal and human trials of skin tolerance towards diapers impregnated with copper acetate. *J Clin Exp Gerontol* 1983; 5: 11-17.

58. Norberg A, Olsson B, Norberg B. The urine smell around patients with urinary incontinence: An intensive-case-study of the effect of diapers impregnated with copper acetate. *J Clin Exp Gerontol* 1983; 5: 19-24.

59. Norberg B, Holm J, Winqvist E, Wahlin A. Treatment of advanced bone marrow neoplasms with ifosfamide combinations. *Scand J Haematol* 1984; 32: 95-100.

60. Bandman U, Bäck O, Norberg B. The effect of an oral therapeutic single-dose of griseofulvin on polymorphonuclear leukocyte migration in a casein gradient. *Arch Dermatol Res* 1984; 276: 41-44.

61. Norberg A, Norberg B, Parkhede U. Long-stay geriatric inpatients with indwelling catheters. A clinical comparison between silicone-coated latex catheters and homogeneous silicone catheters. *J Clin Exp Gerontol* 1984; 6: 27-35.

62. Norberg A, Sandström S, Norberg B, Eriksson S, Sandman PO. The urine smell around patients with urinary incontinence. The production of ammonia in ordinary diapers and in diapers impregnated with copper acetate. *Gerontology* 1984; 30: 261-66.

63. Rydgren L, Norberg B. Yeast cell phagocytosis by mononuclear leucocytes from peripheral blood: Significance of the substrate. *Scand J Haematol* 1984; 33: 368-72.

64. Athlin L, Domellöf L, Norberg B. Adherence and phagocytosis of yeast cells by blood monocytes. Effects in vitro of a therapeutic doxycycline concentration. *Acta Pathol Microbiol Immunol Scand Sect C* 1984; 92: 227-30.

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65. Bäck O, Norberg B. The effect of a therapeutic doxycycline concentration on polymorphonuclear leukocyte migration in vitro. *Scand J Infect Dis* 1984; 16: 369-72.
66. Bexell G, Norberg A, Norberg B. Ethical conflicts in long-term care of aged patients. An ontological model of the care situation. *Ethics & Med* 1985; 1 (3): 44-46.
67. Norberg B, Berglund K, Edström U-B, Rydgren L, Sturfelt G. Effects on bone marrow cells of oral treatment with podophyllotoxin derivatives in rheumatoid arthritis. *Scand J Rheumatol* 1985; 14: 271-75.
68. Gustavsson P, Holm J, Wahlin A, Norberg B. Staging of idiopathic myelofibrosis. *Acta Med Scand* 1985; 218: 487-91.
69. Bäck O, Norberg B. Effect of a single oral dose of doxycycline on polymorphonuclear leukocyte migration in a casein gradient. *Eur J Clin Pharmacol* 1985; 28: 193-95.
70. Athlin L, Domellöf L, Norberg B. The phagocytosis of yeast cells by blood monocytes. Effects of therapeutic concentrations of Vinca alkaloids. *Eur J Clin Pharmacol* 1985; 29: 471-76.
71. Athlin L, Domellöf L, Norberg B. The effect of an oral therapeutic single dose of doxycycline on subsequent monocyte phagocytosis in vitro. *Acta Chir Scand* 1986; 152: 9-13.
72. Nilsson T, Norberg B, Rudolphi O, Jacobsson L. Double gammopathies: Incidence and course of 20 patients. *Scand J Haematol* 1986; 36: 103-06.
73. Norberg B, Wredhammar U, Wahlin A, Eriksson S, Rudolphi O. The significance of handmirror cells in acute myelocytic leukaemia type M1 and M2 after weak cytostatic treatment. *Acta Pathol Microbiol Immunol Scand Sect A* 1986; 94: 149-52.
74. Bandmann U, Norberg B, Eriksson S. PMN migration measured by bottom filter counts in modified Boyden chambers. Chemokinetic deactivation and vinblastine inhibition of chemotaxis. *Haematologia* 1986; 19: 13-19.
75. Athlin L, Domellöf L, Norberg B. The phagocytosis of yeast cells by monocytes. Effects of picropodophyllin and podophyllotoxin. *Curr Ther Res* 1986; 39: 979-86.
76. Norberg B, Blom H. A morphometrical analysis of the effect of a single therapeutic oral dose of doxycycline on cell membrane area of neutrophil polymorphonuclear leucocytes. *J Antimicrob Chemother* 1986; 18: 221-26.
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Uppdrag som "invited speaker"

1. Symposiet om sambandet mellan cellyta, cellrörelse och tumörspridning anordnat av European Organization for Research on Treatment of Cancer, Zürich June 6-8, 1975.

2. Symposiet "Tissue fluid and Peripheral Lymph - Physiological and Clinical Studies applied to Oncology", Norsk Hydro's Institute for Cancer Research, Oslo May 8-10, 1978.

3. Norberg B. Podophyllotoxin - structure and cytobiological activity. *Med Soc Stud Ven Dis*, Spring meeting, Uppsala 1985.

4. Symposium "Lymphology", Hangzhou, China June 6-10, 1987.

5. "Vitamin B12 - mage, tarm och blod". *Opuscula Medica*, Södersjukhuset, Sthlm 22 okt, 1997.

6. Homocysteine and thrombo-embolic vascular disease. Implications for post-operative management. *Cordoba, Argentina*, May 31-June 3, 2000.

Studieresor

1. Med omvårdnadsforskare från Lund-Malmö-Umeå till Seattle och San Francisco 19/4-4/5 1980. Utom omvårdnadsforskning, teori och praktik, fick jag även se världens ledande centrum för benmärgstransplantationer i Seattle och leukemi-behandlingen i San Francisco.

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2. Studieresa beträffande behandling av hematologiska maligniteter och särskilt multipelt myelom i USA 1/10-15/10 1983. Resan företogs tillsammans med Doc Anders Wahlin och vi fick diskutera behandlingsproblemen med ledande forskare i New York, Baltimore, Houston, Tucson och Toronto.

Kongressdeltagande utan föredrag

World Medical Association, Manila 1978.

IIXX Internat Congress Hematology, Montreal 1980.

XIII Internat Congress Chemotherapy, Wien 1983.

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2. Norberg B, Rydgren R, Bandmann U. The clinical significance of amoeboid movement in human leucocytes. II Internat Congress Biorheology, Rehovot 1975.

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7. Norberg B, Norberg A, Parkhede U. The cytology of a quantified urine sediment from geriatric patients with indwelling catheters. XI Internat Congress Gerontology, Tokyo 1978.

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15. Gustavsson P, Holm J, Wallin A, Norberg B. The staging of myelofibrosis by means of haemoglobin value and reticulocyte count. XX Internat Congress Hematology, Buenos Aires 1984.

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20. Norberg B, Athlin L, Domellöf L. Effects of Vinca alkaloids on monocyte phagocytosis. 14th Internat Congress Chemotherapy, Tokyo 1985.

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Vetenskaplig handledning

Ulf Bandmann, med dr. examen 1976 (BN ensam handledare)
Lars Rydgren, med dr. examen 1980 (BN ensam handledare)
Leif Athin, med dr. examamen 1986 (Domellöf huvudhandledare)
Jan-Håkan Jansson, med dr. examen 1990 (BN huvudhandledare, bitr. Torbjörn Nilsson, Kurt Boman)
Mats Nilsson, beräknad 2003, Johan Lökk huvudhandledare, Göran Westman och Bo Norberg bitr. handledare.

Produktion av undervisningsmaterial (production of compendies and textbooks)

1. Norberg B. Integrated medicine. Compendium., 200 copies, 114 pages
2. Mörnstad H, Norberg B. Medical Trouble-Shooting. An introduction to doctoring. 162 pages, 4000 copies. Meda, Göteborg 1991.
3. Engstedt L, Nilsson-Ehle H, Norberg B, Palmblad J (eds). Kontroverser kring vitamin B12. Kunskap, kompetens, kommunikation. Pedagogförlaget, Klippan 1998. 4000 copies. 203 pages. ISBN 91-87050-08-0.