



Waldemar L. Olszewski

Born in Piastów/Warsaw, Poland on 3 September 1933. Received General Certificate of Education in 1948 in Warsaw.

University studies: first at the Faculty of Law, Warsaw University in 1948 (through 1950), changed for Faculty of Medicine in 1949. Graduated in 1954.

Postgraduate studies: Board in Surgery exams in 1962. PhD in 1996 and D. Science in 1968. Postgraduate training and research studies at Hammersmith Hospital, London in the period 1962-63, then at Harvard Medical School in Boston, USA, between 1968 and 1970.

Positions: Associate professor at the Dept. of Surgery, Medical Academy, and Medical Research Center, Polish Academy of Sciences in Warsaw 1970-1978, since 1978 until now full professor at the same centers including since 1997 chairman of Clinical Department of Surgery, Ministry of Internal Affairs/Polish Academy of Science Hospital, Warsaw.

Employment: City Hospital #4, Warsaw 1952-59, since 1959 until now Dept. of Surgery, Medical Academy, and Medical Research Center, Warsaw as Head of Dept. of Surgical Research & Transplantation and since 1997 as Chief of Clinical Department of Surgery, Ministry of Internal Affairs/Polish Academy of Sciences Hospital, Warsaw.

Other professional positions include: Visiting Professor at Radiumhospitalet, Oslo,(since 1976-), St. Bartholomew's Medical School, London (since 1994-), Research Officer World Health Organization, Madras-Pondicherry-Benares, India (since 1992-). President of the European Society for Surgical Research in 1977-78, President of the International Society of Lymphology in 1989-91, President of the Polish Society for Immunology in 1995-98.

Honorary distinctions and memberships: Doctor Honoris Causa Universita di Genova Italy, NIH Lymphatic Research Foundation USA Leadership Award, Honorary Member of surgical and vascular societies of Poland, Japan, Korea, Italy, Spain, Brasil, Argentina, India, PanAmerican.

Awards: International Society for Lymphology, 1973, Japanese Surgical Society 2004, Purkinje Medal Czech Republic 1978, Polish Academy of Sciences, 1972, 75, 2004, Ministry of Health, Rep. of Poland 2003, Polish Transplantation Society, 2001 and of many scientific societies. Doctor honoris causa University of Genova, Italy. Top Award of J.Sniadecki, Polish

Academy of Sciences, 2004. Award of the Lymphatic Research Foundation, NIH, USA 2006. Award Lymphology Association of North America, 2006.

Member of editorial boards of many international medical journals among them Lymphology (USA), International Angiology (GB), Central European Journal of Immunology (Poland), Phlebology (Spain), Cell Transplantation (USA), Lymphatic Research and Biology (USA), US-Chinese J. of Lymphology and Oncology (China), Indian Medical Research J (India).

Clinical and research interests comprise vascular surgery, transplantation, physiology and surgery of the lymphatic system, and immunology. Published around 600 publications, 7 scientific books among them Peripheral Lymph - formation and immune function (CRC Press, USA, 1985), In Vivo Immune Cell Migration (CRC Press, USA, 1987), Handbook of Microsurgery (CRC Press, USA 1987) and Lymph Stasis - pathophysiology, diagnosis and treatment (CRC Press, USA, 1991).

Main scientific contributions include designing and introducing into clinical practice the surgical lympho-venous shunts (1966), discovery of spontaneous rhythmic lymphatic contractility in humans (1980), proving that bacterial factor is responsible for development of human limb lymphedema (1994), introducing low-dose, long-term penicillin administration for prevention of chronic dermatitis and lymphangitis in Asian countries (1996) (at present millions of patients are treated with this method), detecting the phenomenon of non-specific elimination of autologous cell grafts (1990), preservation of tissues for transplantation in anhydric sodium chloride (2003), original findings proving the role of lymphatic system in healing and remodeling of damaged tissues (reaction to foreign and tolerance to self- antigens) (2004), preservation of skin for transplantation in sodium chloride (2006).

At present is at the Medical Research Center, Polish Academy of Sciences (Head of Dept) and Ministry of Internal Affairs Clinical Hospital (Chief Consultant), Warsaw, Poland.

Selected publications on the lymphatic system:

1. Olszewski W.L. Surgical lymphovenous shunts in treatment of lymph stasis (in Polish). Proc Congress Polish Surgical Society, 1966, 69-70.
2. Nielubowicz J., Olszewski W.L. Surgical lymphovenous shunts in patients with secondary lymphedema. Brit J Surg, 1968, 55, 440-442.
3. Olszewski W.L., Engeset A. Intrinsic contractility of prenodal lymph vessels and lymph flow in man. Am J Physiol, 1980, 239, H775-783.
4. Olszewski W.L. Prevention of lymphangitis in lymphedema: a proposed study. Lymphology, 1994, 27, 201-205.

5. Olszewski W.L., Koe K.R., Engeset A. Immune proteins and other biochemical constituents of peripheral lymph in patients with malignancy and postirradiation lymphedema. *Lymphology*, 1978, 11, 174-180.
6. Olszewski W.L., Engeset A. Immune proteins, enzymes and electrolytes in human peripheral lymph. *Lymphology*, 1978, 11, 156-164.
7. Olszewski W.L., Engeset A., Lukasiewicz H. Immunoglobulins, complement and lysozyme in leg lymph of normal men. *Scand J Clin Lab Invest*, 1977, 37(8), 669-674.
8. Olszewski W.L., Grzelak I., Engeset A. Cells in lymph draining normal human skin-monoclonal antibody analysis. *Lymphology*, 1982, 15(4), 168-173.
9. Olszewski W.L., Grzelak I., Ziolkowska A., Engeset A. Effect of local hyperthermia on lymph immune cells and lymphokines of normal human skin. *J Surg Oncol*, 1989, 41(2), 109-116.
10. Olszewski W.L., Grzelak I., Ziolkowska A., Engeset A. Immune cell traffic from blood through the normal human skin to lymphatics. *Clin Dermatol*, 1995, 13(5), 473-483.
11. Olszewski W.L., Engeset A. Intrinsic contractility of prenodal lymph vessels and lymph flow in human leg. *Am J Physiol*, 1980, 239(6), H775-783.
12. Olszewski W.L., Jamal S., Manokaran G., Lukomska B., Kubicka U. Skin changes in filarial and non-filarial lymphoedema of the lower extremities. *Trop Med Parasitol*, 1993, 44(1), 40-4.
13. Olszewski W.L., Kubicka U. Immunohistochemical studies of skin in secondary lymphedema of limbs reveal presence of chronic inflammatory reaction. *Lymphology*, 1996, 29 (Supl.), 327-330.
14. Olszewski W.L., Jamal S., Lukomska B., Manokaran G., Grzelak I. Immune proteins in peripheral tissue fluid-lymph in patients with filarial lymphedema of the lower limbs. *Lymphology*, 1992, 25(4), 166-171.
15. Olszewski W.L., Jamal S., Manokaran G., Gałkowska H., Grzelak I., Zaleska M. Lymph cytokines in obstructive lymphedema - a sign of chronic inflammatory reaction. *Lymphology*, 1998, 31, 126-131.
16. Olszewski W.L., Grzelak I., Engeset A. Lymph cells in normal and lymphedematous leg lymph. *Lymphology*, 1994, 27 Supl., 224-226.
17. Olszewski W.L., Bryła P. Lymph and tissue pressures in patients with lymphedema during massage and walking with elastic support. *Lymphology*, 1994, 27 Supl., 512-516.
18. Olszewski W.L. The treatment of lymphedema of the extremities with microsurgical lympho-venous anastomoses. *Int Angiol*, 1988, 7(4), 312-21.
19. W.L. Olszewski. Episodic dermatolymphangioadenitis (DLA) in patients with lymphedema of the lower extremities before and after administration of benzathine penicillin: a preliminary study. *Lymphology*, 1996, 29, 126-131.
20. Olszewski W.L. Prevention of lymphangitis in lymphedema: a proposed study. *Lymphology*, 1994, 27, 201-205.
21. Olszewski W.L., Jamal S. Skin bacterial factor in progression of filarial lymphedema. *Lymphology*, 1994, 27, 148-149.

22. Olszewski W.L., Jamal S., Manokaran G., Pani S., Kumaraswami V., Kubicka U., Łukomska B., Dworczyński A., Swoboda E., Meisel-Mikołajczyk E. Bacteriologic studies of skin, tissue fluid, lymph, and lymph nodes in patients with filarial lymphedema. *Am J Trop Med Hyg*, 1997, 57, 7-15.
23. Olszewski W.L., Jamal S., Manokaran G., Pani S., Kumaraswami V., Tripathi F.M., Dworczyński A., Swoboda E., Meisel-Mikołajczyk F., Stelmach W., Zaleska M. Acute dermatolymphangioadenitis in course of "filarial" lymphedema - bacteriological studies of blood, tissue fluid, lymph and lymph nodes. *Lymphology*, 1998, 31, 410-416.
24. Olszewski W.L., Jamal S., Manokaran G., Pani S., Kumaraswami V., Kubicka U., Łukomska B., Tripathi F.M., Dworczyński A., Swoboda E., Meisel-Mikołajczyk F., Stelmach E., Zaleska M. Bacteriological studies of blood, tissue fluid, lymph and lymph nodes in patients with acute dermatolymphangioadenitis (DLA) in course of "filarial" lymphedema. *Acta Tropica*, 1999, 73, 217-224.
25. Olszewski WL. Clinical efficacy of micronized purified flavonoid fraction (MPFF) in edema. *Angiology*, 2000, 51(1): 25-9
26. Miller GJ, Howarth DJ, Attfield JC, Cooper JA, Cooke CJ, Nanjee MN, Olszewski WL. Haemostatic factors in human peripheral afferent lymph. *Thromb Haemost*, 2000, 83 (3): 427-432
27. M.N. Nanjee, C.J. Cooke, W.L. Olszewski, N.E. Miller. Concentrations of electrophoretic and size subclasses of apolipoprotein A-I-containing particles in human peripheral lymph. *Arterioscler Thromb Vasc Biol* 2000, 20: 2148-2155
28. W.L. Olszewski. New methods of investigation in lymphedema. *Phlebolympology*, 2000, 29: 18-21
29. B. Interewicz, H. Gałkowska, W.L. Olszewski, N.E. Miller. Apoptosis and free DNA in human peripheral lymph. *Lymphology*, 2000: 46-51
30. W.L. Olszewski, F.N. Tripathi, G. Manokaran, S. Jamal, V. Kumaraswami, K. Purushothama, E. Stelmach, M. Zaleska, E. Swoboda. Mycotic flora of legs with filarial lymphedema. *Lymphology*, 2000: 141-143
31. W.L. Olszewski, H. Gałkowska, A. Ziółkowska, M. Zaleska. Lymph from inflamed tissues provides information on local immune reaction to drugs. *Lymphology*, 2000: 25-29
32. G. Szczęsny and W.L. Olszewski. Lymphatic and venous changes in lower limbs after mechanical trauma. *Lymphology*, 2000: 117-120
33. M.N. Nanjee, C.J. Cooke, W.L. Olszewski, N.E. Miller. Lipid and apolipoprotein concentrations in prenodal leg lymph of fasted humans: associations with plasma concentrations in normal subjects, lipoprotein lipase deficiency, and lecithin: cholestrol acyltransferase deficiency. *J Lip Res* 2000, 41 (8): 1317-1327
34. E. Swoboda-Kopeć, M. Łuczak, W.L. Olszewski, F.M. Tripathi. Sensitivity patters of fungi isolated from the skin of patients with filarial lymphoedema Editor Hakima Himmich, by Monduzzi Editore, International Proceedings Division. 2000: 219-224
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41. W.L. Olszewski. Continuing discovery of the lymphatic system – what should we expect in the twenty – first century. *Lymphology* 2002, 35:99-104
42. W.L. Olszewski. Contractility patterns of normal and pathologically changed human lymphatics. *Ann N Y Acad Sci* 2002, 979:52-63
43. W. L. Olszewski. *De Novo* lymph node formation in chronic inflammation of the human leg. *Ann N Y Acad Sci* 2002, 979:166-77
44. W.L. Olszewski, H. Galkowska, D. Zolich. Immunohistopathology of skin in obstructive lymphedema- perivenular infiltrates but no perilymphatic infiltrates and lymphangiogenesis. *Lymphology* 2002,35:88-89
45. W.L. Olszewski, J. Pazdur, E. Kubasiewicz, M. Zaleska, A. Ziolkowska, N.E. Miller. Activation of lymph cells in afferent lymph in local inflammation. *Lymphology* 2002,35:99-102
46. W.L. Olszewski. Lymphoscintigraphy helps to differentiate edema of various etiologies (inflammatory, obstructive, posttraumatic, venous). *Lymphology* 2002,35:233-235
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48. W.L. Olszewski. The lymphatic system in body homeostasis: Physiological conditions *Lymph Res Biol* 2003, 1(1):11-21
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50. W. L.Olszewski. Pathophysiological aspects of lymphedema of human limbs. I. lymph protein composition. *Lymph Res Biol* 2003, 1(3):235-243
51. T. Kujiraoka, M. N. Nanjee, T. Oka, M. Ito, M. Nagano, C. J. Cooke, S. Takahashi, W. L. Olszewski, J. Wong, I. P. Stepanova, R. L. Hamilton, T. Egashira, H. Hattori, N. E. Miller. Effects of intravenous apolipoprotein A-I/phosphatidylcholine discs on HDL-associated enzymes and lipid transfer proteins in humans. *Arterioscler Thromb Vasc Biol* 2003, 23: 1653-1659

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53. B. Interewicz, W.L. Olszewski, L.V. Leak, E.F. Petricoin, L.A.Liotta. Profiling of normal human leg lymph proteins using the 2-D electrophoresis and SELDI-TOF mass spectrophotometry approach. *Lymphology* 2004, 37:65-72
54. T. Kujiraoka, H. Hattori, M. Ito, M.N. Nanjee, M. Ishihara, M. Nagano, T. Iwasaki, C.J. Cooke, Olszewski WL, Stepanova IP, Egashira T, Miller NE. Effects of intravenous apolipoprotein A-I/phosphatidylcholine discs on paraoxonase and platelet-activating factor acetylhydrolase in human plasma and tissue fluid. *Atherosclerosis* 2004 Sep;176(1):57-62
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56. B. Interewicz, W.L. Olszewski, J. Stanislawska, E.Miller. Human leg prenodal lymph contains free fragments of DNA– their possible biological. Function. *Lymphology* 2004, 37: 201-203, *Progress in Lymphology XIX*. Editors: E. Földi, M. Földi, M.H. Witte
57. Szczesny G, Olszewski W.L, Zaleska M: Limb lymph node response to bone fracture. *Lymph Res Biol* 2004, 2(4):155-163
58. Olszewski WL. The innate reaction of the human skin lymphatic system to foreign and self-antigens. *Lymphat Res Biol*.2005;3(2):50-7
59. Olszewski W.L., Jamal S., Manokaran G., Tripathi F.M., Zaleska M., Stelmach E. The effectiveness of long-acting penicillin (penidur) in preventing recurrences of dermatolymphangiodenitis(DLA) and controlling skin, deep tissues, and lymph bacterial flora in patients with “filarial” lymphedema. *Lymphology* 2005,38:66-80
60. Szczęśny G., Olszewski W.L., Górecki A. Lymphoscintigraphic monitoring of the lower limb lymphatic system response to bone fracture and healing. *Lymphatic Research and Biology* 2005,3(3),137-145

Books:

1. W.L. Olszewski. *CRC Handbook of Microsurgery Vol I*, CRC Press, Inc. Boca Raton, Florida 1984.
2. W.L. Olszewski. *Peripheral Lymph Formation and Immune Function*. CRC Press, Inc. Boca Raton, Florida 1985
3. W.L. Olszewski. *In Vivo Migration of Immune Cells*. CRC Press, Inc. Boca Raton, Florida 1987.
4. W.L. Olszewski. *Lymph Stasis: Pathophysiology, Diagnosis and Treatment*. CRC Press, Inc. Boca Raton, Florida 1991
5. W.L. Olszewski, *Atlas of Lymphology*, Servier, Paris, 2002