

CURRICULUM VITAE

Name and position: Norman Ende, M.D.
Professor of Laboratory Medicine and Pathology
Rutgers-New Jersey Medical School
Department of Laboratory Medicine and Pathology
185 South Orange Avenue, C565
Newark, NJ 07103-2714

Education:

1945 BS	University of Richmond, VA
1947 MD	Medical College of Virginia, Richmond, VA

Internship and Residencies:

1947-48	Intern, Bronx, Hospital, NY
1948-49	Resident in Pathology, VAH, New Orleans, LA
1949-50	Resident in Surgery, VAH
1950-52	Resident in Pathology, VAH

Military:

1943-85	Captain, U.S.N.R. (Ret.)
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Licensure:

{New Jersey - MA24754}
New Jersey Lab Director - MF 00412
Virginia - current

Certification:

1953	American Board of Pathology - Clinical
1954	American Board of Pathology - Anatomical

Narcotics Certification:

New Jersey CDS No. D10115
United States DEA No. AE8019071

University Appointments:

1954-55	Instructor, Baylor Medical School, Houston, TX
1958-61	Assistant Clinical Professor of Pathology, Vanderbilt Univ., Nashville, TN
1961-64	Assistant Professor of Pathology, Vanderbilt Univ.
1964-67	Associate Professor of Pathology, Vanderbilt Univ.
1967-70	Professor of Pathology, Emory Univ, Atlanta, GA
1971-Present	Professor of Pathology, UMDNJ-New Jersey Medical School
1974-75	Acting Chairman, Pathology, UMDNJ-NJMS
1977-96	Director, Tissue Typing Laboratory, Lab. Med. & Path., UMDNJ

Hospital Appointments:

1954-55	Pathologist, VAH, Houston, TX
1955-58	Chief of Laboratory Service, VAH, Fresno, CA

1958-67	Chief of Laboratory Service, VAH, Nashville, TN
1967-70	Chief of Pathology, Grady Memorial Hospital, Atlanta, GA
1970-77	Chief of Clinical Pathology, UMDNJ-University Hospital
1977-96	Director, Tissue Typing Laboratory and Immunopathology
1978-Present	Consultant Emeritus, Newark Beth Israel Hospital, Newark, NJ
1979-Present	Pathologist, UMDNJ-University Hospital

Board of Directors/Trustees/Governors:

1980-83	Board of Governors, American Association University Professors, NJMS
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MAJOR COMMITTEE ASSIGNMENTS:

National and Regional

1968-71	Director, Television series: "Audiovisual Training Program in Pathology" --A series of 90 lectures on television tapes in Clinical and Anatomical Pathology. Produced by National Medical Audiovisual Center. Completed and released, 90 lectures in 1972.
1985-86	President, Board of Governors, New Jersey Medical School and Dental School Chapter Chairman Council AAUP-UMDNJ
1984-85	1st Vice President, Amer. Assoc. University Professors, NJMS
1986-95	Member, Board of Directors, New Jersey HLA Registry Foundation

UMDNJ

1984-85	Executive Committee, UMDNJ-University Hospital, Newark, NJ
1985-86	President, AAUP, UMDNJ-NJ Medical School, Newark, NJ

Department of Pathology and Laboratory Medicine

1970-2013	Lecturer, General Pathology Course for Sophomore Medical Students. Bone pathology lectures for Dental School Students.
1983-1996	Graduate School Committee
1983-86	Chairman, Faculty Practice Committee

Memberships, Offices and Committee Assignments in Professional Societies

American College of Physicians
American Society of Clinical Pathology
College of American Pathologists
American Society of Nuclear Medicine
American Association of Pathologists
American Medical Society
The Society of Medical Consultants to the Armed Forces
Radiation Research Society

Research Interests:

Rape, homicide, and VMA levels
Deformation of cells
Metastatic giant cell tumor of bone
Umbilical cord blood and its potential for bone marrow transplantation
Umbilical cord blood and its role for treatment of radiation injuries.

Current Major Research:

Umbilical Cord blood Stem cells (Berashis Cells)

To make New Jersey the 1st State, Rutgers the first medical school and the University Hospital the first Hospital to develop a plan for treatment of mass casualties from a nuclear explosion.

To continue research on the use of cord blood (unmodified) on animal models of human medical disease and neoplasm (currently Glioblastoma multiforme) and translation to clinical trials.

Grants

(Principal Investigator)

1965-68	NIH Mast cell enzymes - surgical hemorrhagic oozing
1966-67	VAH Pathology research
1967-68	VAH Transplantation immunology
1969-76	NIH Immunology and cytology of human renal transplant
1977-78	Oncogenic viruses and neoplasia in human allografts
1977-78	Deborah Heart Lung Institute, Antilung antibodies in various pulmonary disease states
1979-82	Stoney Wold Herbert Fund. Antilung antibodies in pulmonary disease
1985-Present	Abraham Ende Foundation Grant
	Current total: \$ 600,000
1993-1994	Norton Lilly Incorp., \$ 70,000
1995-1998	Norton Lilly Incorp., \$ 30,000 (\$10,00 per year)

Major Teaching Experience (Director/co-director)

1970-77	Director, Clinical Pathology Residency Training Program
1972-76	Director, Clinical Pathology Course for Sophomore Students
1981-96	Bone Radiology Pathology Conference

Principal Clinical and Hospital Service Responsibilities:

Clinical and Anatomic Pathology

Honors:

Military letter of commendation from Charles B. Green Lieutenant General, USAF, MC, CFS Surgeon General thank me for "Ongoing efforts supporting our Nation's defense "

Accomplishment; Assistant Secretary of Policy Evaluation and Research (ASPER) has determined that my plan for Mass Casualties from Nuclear Terrorist Attack is the only plan that can deal with mass casualties. This has been introduced to both USA and China Security.

2003, selected to the Honorary Society, Virginia Commonwealth University, Phi Kappa Phi in the alumnus category for my "gift to humanity".

2002, received the "STAR" Award from the Medical College of Virginia (Virginia Commonwealth University) for pioneering work on Human Umbilical Cord Blood.

"Human Umbilical Cord Blood" Presented at annual lecture of Sigma Xi. Distinguished Lecturer Series, May 12, 1999.

BIBLIOGRAPHY**ORIGINAL REPORTS**

1. Ende N, Ziskind J: Air embolism in blood donors. JAMA 154:1483-85, 1950.

2. Ende N, Daron PB, Richardson LK, Raider L, Ziskind J: Plasma-cell tumor of the stomach. *Radiol* 55:207-213, 1950.
3. Ende N: Tourniquet for intravenous therapy for patients in shock. *Am J Surg* 80:915-916, 1950.
4. Ende N, Pizzolotto P, Ziskind J: An unusual case of carcinosarcoma of the esophagus. *Am J Roent Rad*, 65:227-231, 1951.
5. Ende N, Ziskind J: Asphyxia by tracheobronchial secretions. *Surg Gyn Obstet*, 94:57-64, 1952.
6. Ende N, Pizzolotto P, Ziskind J: Hodgkin's disease associated with histoplasmosis. *Cancer* 5:763-769, 1952.
7. Ende N, Brazda PG, Ziskind J: Elevated serum potassium as a possible cause of death in hyperactive states. *Am J Med Sci*, 224:638-642, 1952.
8. Ende N, Pizzolotto P, Ziskind J: Sicklemia. *Ann Int Med* 42:1065-1075, 1955.
9. Ende N: Congenital brain tumor in one of identical twins. *Cancer* 8:1057-59, 1955.
10. Ende N, Gelpi AP: Pathologic changes noted in bone marrow in a case of "Q" Fever. *Blood*, 12:483, 1957. (letter to editor)
11. Ende N, Gelpi AP: Pathological changes noted in bone marrow in a case of "Q" Fever. *Arch Int Med*, 100:793-796, 1957.
12. Gelpi AP, Ende N: An hereditary anemia with hemochromatosis: Studies of an unusual hemopathic syndrome resembling thalassemia. *Am J Med* 25:303-314, 1958.
13. Gelpi AP, Ende N: Coronary embolus with myocardial infarction and rupture. *Ann Int Med* 50:511-519, 1959.
14. Ende N: Infarction of the bowel in cardiac failure. *N Eng J Med* 58:879-881, 1958.
15. Ende N: Radio-isotope unit. A six-month report. *Am J Clin Path* 29:482-483, 1958. (letter to editor)
16. Ende N, Cherniss EI: Splenic mastocytosis. *Blood* 13:631-641, 1958.
17. Ende N, Cherniss EI: Mast cells, histamine and serotonin studies of the human spleen. *Am J Clin Path* 30:35-36, 1958.
18. Ende N, Cherniss EI: Mast cell disease. *Med Times* 87:1577-1578. December, 1959.
19. Ende N: Studies of amylase activity in pleural diffusions and ascites. *Cancer* 13:283-287, 1960.
20. Ende N, Auditore JV: Mast cells and fibrinolysis. *Nature* 189:593, 1961.
21. Ende N: Amylase activity in body fluids. *Cancer* 14:1109-1114, 1961.
22. Ende N, Auditore JV: Fibrinolytic activity of human tissues and dog mast cell tumors. *Am J Clin Path* 36:16-24, 1961.
23. Ende N: Starvation studies with special reference to cholesterol. *Am J Clin Nutr* 11:270-280, 1962.

24. Mayfield GR, Ende N, Federspiel CF: Studies with intravenous triolein with relation to age of patient. *Am J Card* 10:193-97, 1962.
25. Ende N, Auditore JV: Esterolytic activity of canine and human mast cells. *Am J Clin Path* 38:501-510, 1962.
26. Ende N, Auditore JV: Circulating fibrinolytic activator hemorrhagic diathesis. *Ann Surg* 158:117-125, 1963.
27. Auditore JV, Ende N, Katayama Y: Multiple character of canine mast cell proteolytic activity. *Life Sci* 6:375-381, 1963.
28. Ende N, Woods LD, Shelley HS: Carcinoma originating in ducts surrounding the prostatic urethra. *Am J Clin Path* 40:183-189, 1963.
29. Ende N: Thromboangiitis obliterans with special reference to coagulation and clot lysis. *Vas Dis* 1:83-88, 1964.
30. Ende N, Katayama Y, Auditore JV: Multiple proteolytic enzymes in the human mast cells. *Nature* 20:1107-1198, 1964.
31. Ende N, Auditore JV: Activation of fibrinolytic system in a dog with mast cell tumor. *Am J Phys* 106:567-572, 1964.
32. Ende N: Problems in pathology related to renal transplantation, with special reference to the use of "Old" Kidneys. Presented at the annual meeting of College of American Pathologists and The American Society of Clinical Pathologists, October 17-23, 1964.
33. Ende N: Recent findings in thromboangiitis obliterans. *Res Rev* 42-44, 1963-64.
34. Zukoski CF, Ende N: Membranous glomerular nephritis complicating prolonged survival of a homographed kidney. *Transplantation* 3:118-122, 1965.
35. Katayama Y, Ende N: Esterase studies on dog mast-cell tumors. *Nature* 205:190-191, 1965.
36. Ende N, Zukoski CF: Emergency autopsy for the selection of donor kidneys -the use of "senile" kidneys. *JAMA* 191:902-904, 1965.
37. Ende N: The pathologists role in selection of donor kidneys. *The Bulletin of Pathology*, April, 1966.
38. O'Neill JA Jr, Ende N, Collins is, Collins HA: A quantitative determination of perfusion fibrinolysis. *J Thor Card Surg* 51:777-782, 1966.
39. Adkins RB, Ende N, Gobbel WG Jr: Ultrastructural alterations of the gastric mucosa following gastrin administration. *Surg Forum* 17:297-299, 1966.
40. Symbas PN, Abbott OA, Ende N: Surgical stress and its effects on serum cholesterol. *Surg* 61:221-227, 1967.
41. Adkins RB, Ende N, Gobbel WG Jr: A correlation of pariental cell activity with ultrastructural alterations. *Surg* 62:1059-1069, 1967.
42. Ende N, Williamson EF: Demonstration by the antiglulin consumption test of humoral antibodies after homografting. *Trans* 5:1524-1528, 1967.

43. Ende N, Williamson EF: Humoral antibodies and human renal homograft rejection. *Am J Clin Path* 49:155-160, 1968.
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46. Ende N, Kelly LV, Killen DA: Determination of ischemic injury of cadaveric donor kidney by cytologic imprints. *Am J Clin Path* 52:87-88, 1969.
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50. Ende M, Ende N: Hematopoietic transplantation by means of fetal (cord) blood a new method. *Virginia Med Monthly* 99:276-80, 1972.
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53. Ende N, Orsi EV, Britten TL, Baturay NA, Genova TF: Anti-kidney cytotoxic antibodies in human renal allografts. *Amer J Clin Path* 66:395-400, 1976.
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63. Ende N, Grizzanti JN, Orsi EV, Lubansky KP, Amoroso RC, Reichman L, Zelikoff JT: Sarcoid and cytotoxic lung antibodies. *Life Sci Med*, 39:2435-2440, 1986.
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69. Ende N, Gertner SB, Socha B: Unexpected changes in urinary catecholamines and vanillylmandelic acid following rape assault. *Clin. Hormones and Behavior*, 24:62-70, 1990.
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71. Ende N, Ponzio NM, Athwal RS, Ende M, Giuliani DC: Murine survival of lethal irradiation with the use of human umbilical cord blood. *Life Sciences*, 51:1249-1253, 1992.
72. Ende, N. Collection of umbilical Cord Blood for Transplantation. *Blood*, 80:6, pp 1623-1631 (September 15, 1992).
73. Ende M, Smith, III CW, Grizzard, Jr WF, Harkins TJ, Fly NJ, Ende, N: Sterility of the umbilical cord. Letter to Editors: *Amer J OB/Gyn*, 171:279, 1994.
74. Ende N, Ponzio NM, Giuliani D, Ende M, Bagga PS, Godyn J, and Athwall RS. The effect of human cord blood on SJL/J mice after chemoablation and irradiation and its possible clinical significance. *Immuno Inves* 24:(6) 999-1012, 1995.
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- lipomas: a radiologic-pathologic correlation. *Skeletal Radiol* 24:37-41, 1995.
78. Ende, N: Questions to be answered about umbilical cord blood. *Letters to the Editor: Transfusion* 36:288-289, 1996.
 79. Ende, N, Lu, S, Ende, M, Giuliani, D, Ricafort, R, Alcid, M, Deladisma, M, Bagtas-Ricafort, L: Potential effectiveness of stored cord blood (non-frozen) for emergency use. *Jr. of Emer Med* 14:6; 673-677, 1996.
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 82. Rameshwar P, Smith I, Ende N, Batarseh HE, Ponzio NM: Endogenous hematopoietic reconstitution induced by human umbilical cord blood cells in immunocompromised mice: Implications for adoptive therapy. *Experimental Hematology*, June 1998.
 83. HLA DR and Ab surface antigens correlate with cell shape (surface area): Ende N, Ritter AB. *Life Sciences*, Vol 63, No 15, pp. 1353-1359, 1998.
 84. Czarneski J, Lin Y, Ende N, Raveche E: Effects of Cord Blood Transfer on the Hematopoietic Recovery Following Sublethal Irradiation in MRL *lpr/lpr* Mice. *Cord Blood Factors and Stem Cells. Proc Soc Exp Bio Med*, Vol 220 pp 79-87, Feb 1999.
 85. Rameshwar P, Smith I, Ende N, Batarseh HE, Ponzio NM: Endogenous hematopoietic reconstitution induced by human umbilical cord blood cells in immunocompromised mice: Implications for adoptive therapy. *Experimental hematology*: 27, pp. 176-185, Jan 1999.
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 89. Ende N, Weinstein L, Chen R, Bagtas-Ricafort L, Ende, M. Human umbilical cord blood (HUCB) and effect on *sod* mice (amyotrophic lateral sclerosis). *Life Sciences*, 2000;67:53-59.
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 94. Ende, N., Lu, S., Alcid, M., Chen, R., Mack, R. Pooled umbilical cord blood as a possible universal donor for marrow reconstitution and use in nuclear accidents. *Life Sciences* Vol 69, No. 13, 1531-1539, 2001.

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96. Ende, N., Chen, R. Parkinson's disease mice and human umbilical cord blood. *Journal of Medicine* 33:173-180, 2002.
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1. Ende, N., Chen R., Reddi, A.S. Effect of Human Umbilical Cord Blood Cells on Glycemia and Insulinitis in Type 1 Diabetic Mice. *Biochem Biophys Res Commun.* 325(3): 665-9, 2004.
100. Ende, N, Ende, M, Chen, R, Coakley, K, and Reddi, AS. Prevention of Atherosclerosis in LDL receptor mutant mice by human umbilical cord blood cells. *Research Communications in molecular Pathology and Pharmacology*, Volumes 117, 118, 2005.
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103. Ende N, Portuondo N, Iffy L. The time of clamping the umbilical cord blood . (A controversial Aspect of Stem Cell Research. *Hungarian Journal of Obstetrics and Gynecology* 69: (1); 5-8, 2006.
104. Iffy, L, Varadi V, Portuondo N, Ende N. Collection of fetal blood for stem cell research and therapy. Med Law. 25 (3): 553-61, Sept. 2006.
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113. Webinar Treatment of mass casualties from a nuclear explosion or terrorist attacks. Presented to Regional IND Planning Team, NY, NJ, CT, PA on March 19, 2012, Norman Ende, Professor of Pathology and Laboratory Medicine, Capt. Mc USNR (ret.)
114. Kovalenko OA, Azzam EI, Ende N. Human umbilical-cord-blood mononucleated cells enhance the survival of lethally irradiated mice: dosage and the window of time. *J Radiat Res.* 2013 Nov 1;54(6):1010-4. Epub 2013 Jun 21
115. Letter to Editor, Ende N, *New England Journal Med.* 378; 25 June 21, 2018
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Abstracts, presentations

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3. Ende N, Auditore JV: Proteolytic enzyme and tissue activator associated with canine and mast cell tumors. *Bio Pharm* 8:152, #505, 1961.
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5. Ende N, Auditore JV: Esterase activity of mast cells. *Clin. Res.* 10:22, 1962.
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9. Ende N, Auditore JV: A fibrinolytic system in normal dogs and a dog with cell tumor. *Feb. Proc.* 23: No 2, Part 1, 1964
10. Ende N, Zukoski CF: Problems in pathology related to renal transplantation with special reference to the use of "old" kidneys. *Am J Clin Path* 42:519, 1964.
11. Ende N, Williamson EF: Humoral antibodies and human renal homograft rejection. *Am J Path* 50:44.44a-45a 1967.
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18. Ende N: The effect of transplantation existing pathology in transplanted kidneys. The American Association of Pathologists and Bacteriologists. Washington, DC, 1973.
19. Ende N: Histologic examination of removed transplanted kidneys. Fifth International Congress of the Transplantation Society, Jerusalem, August, 1974.
20. Ribot S, Ende N: Relationship of Pre and Post Transplant Cytotoxicity to graft survival. The Fifth International Congress of the Transplantation Society, Jerusalem, August 1974.
21. Ende N, Orsi EV, Britten TL, Baturay NZ: Anti-kidney cytotoxic antibodies in human renal allografts, *Am J of Path.*, Boston Mass. Vol 82, No. 2, February 1976.
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