

## CURRICULUM VITAE

**NAME:** Noel Keith Maclaren, M.D.  
Clinical Professor, Pediatrics, Weill College of Medicine of Cornell University  
And Director, BioSeek Endocrine Clinics  
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**HOSPITAL AFFILIATIONS:** New York Hospital/Weill-Cornell College of Medicine, E 68<sup>th</sup> St, New York, NY  
Lenox Hill Hospital, E 77<sup>th</sup> St, New York, NY  
Greenwich Hospital, Greenwich CT  
St Vincents Hospital W 12 th St, New York, NY

**BIRTH:** July 28, 1939  
New Zealand  
Citizen of United States, 1986, Passport # 154956766

**PERSONAL:** Married - Sunita  
Children - Kirsty, Sophie and Sahil

**EDUCATION:** M.B., Ch.B (MD), University of Otago, Dunedin, New Zealand, 1963  
  
First year resident, Cook Hospital, Gisborne, New Zealand, 1964 (Medicine and Pediatrics)  
  
Second year resident, Wellington Hospital, Wellington, New Zealand, 1965 (Medicine)  
  
Registrar in Medicine and Pediatrics, Wellington Hospital, New Zealand, 1966 (Endocrinology)  
  
Senior registrar in Medicine and Pediatrics, Wellington Hospital, New Zealand, 1967-1968  
  
Senior resident Medical Officer, Queen Elizabeth Hospital for Sick Children, Hackney, London, 1969  
  
Consultant in Pediatrics and Internal Medicine, Gulf Oil Co. Hospital, Ahmadi Kuwait and the Oil Co. Clinic, Tripoli Libya, 1970 - 1972  
  
Fellow in Pediatric Endocrinology and Metabolism, University of Maryland, School of Medicine, and John's Hopkins, Baltimore, Maryland, 1972-73

**ACADEMIC  
APPOINTMENTS:**

Assistant Professor of Pediatric Endocrinology and Metabolism, University of Maryland, School of Medicine, Baltimore, Maryland, 1973 - 1974

Associate Professor of Pediatrics and Director, Endocrinology and Metabolism, University of Maryland, School of Medicine, Baltimore, Maryland, 1975 - 1978

Professor of Pathology and Pediatrics, College of Medicine, University of Florida, Gainesville, Florida, 1978 - 1997

Director, Clinical Chemistry, Shands Teaching Hospital, Gainesville, Florida, 1978 - 1986

Chairman, Department of Pathology, University of Florida, College of Medicine, Gainesville, Florida, 1987 - 1997

Professor, Comparative and Experimental Pathology, University of Florida, College of Veterinary Medicine, 1990 – 1997

Professor of Pediatrics, Louisiana State University, College of Medicine, New Orleans, Louisiana, 1997 – 1999

Professor of Biometry and Genetics, Louisiana State University, College of Medicine, New Orleans, Louisiana, 1998 - 1999

Director, Research Institute for Children, Children's Hospital, New Orleans, Louisiana, 1997 – 1999

Professor (tenured) Pediatrics, Weill College of Medicine of Cornell University, New York, NY 1999 – 2004

Director, Cornell Juvenile Diabetes Program, Weill College of Medicine of Cornell University, New York, NY 1999 – 2004

Rockefeller University Hospital Medical Staff, New York 2000- 2004.

Hospital of Special Surgery Medical Staff, New York 2000- 2004.

Faculty Member Program in Immunology, Joan and Sanford I Weill Graduate School of Medical Sciences, Cornell University 2000-Present

Faculty Member (Adult and Pediatric Specialist Endocrinologist) in Family Medicine, Cornell Medical Associates, Joan and Sanford Weill College of Medicine, 2001-2004

Professor (Clinical) of Pediatrics, Weill-Cornell College of Medicine and New York Hospital, 2004-present

**COMMITTEES:**

Member, Juvenile Diabetes Foundation Medical Advisory Board, 1977-1980

Member, Children's Diabetes Foundation at Denver Medical Advisory Board, 1977-1986

Member, Medical Advisory Committee, Human Growth Foundation, 1982-1984

Graduate Faculty, University of Florida, College of Medicine, Gainesville, Florida, 1979 - 1997

Member, Clinical Research Center Advisory Committee, University of Florida, 1978 - 1997

Chairman, Pathology Residency Advisory Committee, 1980-1984

Member, Advisory Committee, University of Florida Diabetes Research, Education and Treatment Center, University of Florida, 1982 - 1997

Member, University Senate, University of Florida, 1983-1986

Member, Environmental Toxicology Board, University of Florida - 1983-1988

Member, Long Range Planning Committee, University of Florida Health Center, 1985 – 1997

Member, Executive Committee of the Medical Staff, Shands Hospital at the University of Florida, 1984 – 1997

Member, Medical Executive Board, University of Florida College of Medicine, 1984 - 1997

Member, Medical Science Board and Basic Science Board, University of Florida College of Medicine, 1984 - 1995

Member, Florida Group Practice, University of Florida College of Medicine, 1984 - 1997

Member, National Coalition on Immune System Disorders Scientific Advisory Board, 1986 - 1997

Member, Scientific Advisory Board, American Diabetes Association - 1986-1989

Member, Medical Advisory Committee, National Disease Research Interchange (NDRI), 1982 - present

Chairman, NDRI Executive Board 1998- present

Member, National Institutes of Health Immunobiology Study Section, 1988 – 1996 and continuing ad hoc reviewer to present.

Member, International Diabetes Federation, 1989 - Present

Treasurer, International Immunology and Diabetes Workshop, 1990 - 1995

President, International Diabetes Immunotherapy Group, 1990 - 1999

Chairman, College of Medicine Professorial Promotion and Tenure Committee - 1990-91

Charter Member, National Institutes of Health Reviewers Reserve (NRR) - July 1, 1993 - June 30, 1997

Organizer, XII IDW Scientific Meeting, Orlando, Florida - April 1993

Organizer, Scientific Session, American Diabetes Association, Las Vegas - June 1993

Co-Chairman, College of Medicine Associate Professor Promotion and Tenure Committee - 1994-95

Chairman, College of Medicine Associate Professor Promotion and Tenure Committee - 1995-96

Chairman Executive Board, National Disease Research Interchange (NDRI), 2000-2004

Medical Advisory Board, New York Chapter, Juvenile Diabetes Foundation, 2000-present

**HONORS AND AWARDS:**

Mary Jane Kugel Award for Diabetes Research, Juvenile Diabetes Foundation, 1980

Alpha Omega Alpha Medical Society, University of Florida, College of Medicine, Gainesville, Florida, 1984

Faculty Research Prize, University of Florida, College of Medicine, Gainesville, Florida, 1984

International Canadian Diabetes Association/Connaught Novo Nordisk Award, University of Toronto, Toronto, Canada, September 1994

Honorary Seventeenth Henry Turner Lecture Speaker Oklahoma Endocrine Society & University of Oklahoma  
October 12, 1994

*The Best Doctors in America: Southeast Region (1996-1997)*  
Listed in first edition, Woodward/White July, 1995

The best Doctors in America national edition 2003-present

Juvenile Diabetes Foundation International Research Award: David Rumbough Scientific Award, June 1995

Marquis Who's Who in America 1997-present

**BOARDS:**

MRACP, (Member Royal Australasian College of Medicine) Christchurch, New Zealand, 1966 (Internal Medicine)

D.C.H., (Diploma of Child Health), London, UK, 1969

FRACP, (Fellow Royal Australasian College of Medicine) 1976 (Internal Medicine)

Federation Licensing Examination (FLEX), 1973

Diplomate, American Board of Pediatrics, 1976

Diplomate, Pediatric Endocrinology Sub-board, 1978

**SOCIETY MEMBERSHIPS:**

Academy of Clinical Laboratory Physicians and Scientists  
1993 - 1999

Alachua County Medical Society, 1986-1997

American Academy of Pediatrics, 1994-present

American Assoc for the Advancement of Science, 1987-present

American Diabetes Association, 1975-present

American Endocrine Society, 1987-present

American Medical Association, 1979-present

American Pediatric Society, 1979-present

American Society of Clinical Pathologists, 1984-1997

American Society for Histocompatibility and Immunogenetics,  
1984-present

American Society of Pathology, 1984-1997

Association of Pathology Chairs, 1984-1997

Clinical Immunology Society, 1987-Present

Florida Association of Blood Banks, 1984-1997

Florida Medical Association, 1979-1997

Florida Physicians Association, 1989-1997

International Association of Pathologists, 1988-1997

Lawson Wilkins Pediatric Endocrine Society, 1976-Present

Society of Pediatric Research, 1976-Present

Southeastern Conference of Pathology Chairman, 1984-1997

**EDITORIAL BOARDS:**

Pediatric Diabetes, 1999 - present

Diabetes, Technology & Therapeutics, 1999- present

Autoimmunity, 1987 - 2000

Regional Immunology, 1987 - 1996

Diabetes Care, 1986 – 1989.

**PATENTS:**

U.S. Patent No. 5,376,533 – issued 12/27/94

Methods and Compositions for the Detection of Addison's Disease. Maclaren et al [for 21-hydroxylase antigen]. UF # 132

US Patent No. 08/219,816 issued 5/95

Methods and Compositions for Detection and Treatment of Insulin Dependent Diabetes. Maclaren et al [for the islet cell antigen GAD<sub>65</sub>] Diagnostics licensed to Behring Co; therapeutics licensed to Diamyd Co

US Patent No 08/514,213 Filed August 11, 1995

Methods and Compositions for the Detection and Treatment of Insulin Dependent Diabetes. Maclaren et al. [for the islet IA-2 antigen]

Parathyroid Cytosolic Autoantigen Recognized by Autoantibodies from Patients with Acquired Hypoparathyroidism. US Patent # 6,066,475 issued May 23, 2000. Application filing date Dec 16, 1997 Maclaren N and Song Y-H [for auto-immunity against the calcium sensing receptor].

US Patent No 14014.0348 – issued 5/99

Materials and Methods for Detection and Treatment of Insulin-Dependent Diabetes. Maclaren et al. [for the IA-2 $\beta$  antigen and diagnostic use of auto-antibodies against IA-2 $\beta$ , GAD<sub>65</sub>, IA-2, IAA and ICA].

US Patent No. 5,891,435 – issued 4/6/99

Materials and Methods for Detection and Treatment of Insulin Dependent Diabetes. Maclaren et al [for the diabetes insulin B chain based vaccine]. In Japan –issued 1/00 Licensed to Lederle-Wyeth Vaccines Dec 2001.

International Patent Serial No. PCT/US01/03522 Based on US Serial No. 60/180,305-filed Feb 4, 2000 “Compositions and Methods for Reducing Autoimmunity. Maclaren N and Kukreja A.

**PUBLICATIONS**  
**(Refereed Publications Marked with an Asterisk)**  
**(Letters/Correspondence not)**

- 1.\* Maclaren, N.; Valman, B.; and Levin, B.: Alcohol induced hypoglycemia in childhood. Brit Med J 1, 1970, p. 278-280.
- 2.\* Lifshitz, F. and Maclaren, N.: Vitamin D dependent rickets in institutionalized, mentally retarded children receiving long-term anticonvulsant therapy. I. A survey of 288 patients. J Pediatr 83, 1973, p. 612-618.
- 3.\* Maclaren, N. and Lifshitz, F.: Vitamin D dependent rickets in institutionalized, mentally retarded children receiving long-term anticonvulsant therapy. II. Response to 25 hydroxycholecalciferol and to vitamin D<sub>2</sub>. Pediatric Res 7, 1973, p. 914-922.
4. Raiti, S. and Maclaren, N.: Clinical disorders of puberty. Symposium Puberty and Adolescence. Ed. Proudfoot, A.T. Royal College of Physicians, 1974, Publication #45.
5. Maclaren, N. and Lifshitz, F.: Vitamin D dependency rickets in institutionalized, mentally retarded children on anticonvulsant therapy: Responses to 25 hydroxycholecalciferol. Pediatric Digest 32, 1974.
- 6.\* Maclaren, N.; Cornblath, M. and Raiti, S.: Human Growth Hormone. Amer J Dis Child 127, 1974, p. 906-908.
7. Raiti, S. and Maclaren, N.: Advances in human growth research: A symposium. Fed Proc 33, 1964, p. 1682-1685.
- 8.\* Lifshitz, F. and Maclaren, N.: Pathogenesis of Hypophosphatemia and hypophosphaturia with long-term anticonvulsant therapy. J Pediatr 85, 1974, p. 1289.
- 9.\* Maclaren, N. and Cornblath, M.: Insulin. Amer J Dis Child 128, 1974, p. 610-612.
- 10.\* Max, S.; Maclaren, N.; Brady, R.; Bradley, R.; Rennels, M.; Tanaka, J.; Gracia, J. and Cornblath, M.: GM<sub>3</sub> (Hematoside) sphingolipodystrophy. N Eng J Med 291, 1974, p. 929-931.
- 11.\* Fishman, P.; Max, S.; Tallman, J.; Brady, R.; Maclaren, N. and Cornblath, M.: GM<sub>3</sub> gangliosidosis: Deficient ganglioside biosynthesis. A novel human sphingolipodystrophy. Science 187, 1975, p. 68-70.
- 12.\* Maclaren, N.; Raiti, S. and Migeon, C.: Gynecomastia with congenital virilizing adrenal hyperplasia. J Pediatr 86, 1975, p. 579-581.
13. Maclaren, N. and Cornblath, M.: Physiology relevant to diabetes mellitus. Ann Pediatr, 1975.
- 14.\* Maclaren, N.; Cowles, C.; Ozand, P.; Shuttee, R. and Cornblath, M.: Glycerol intolerance in a child with intermittent hypoglycemia. J Pediatr 86, 1975, p. 43-49.
15. Maclaren, N. and Cornblath, M.: The three faces of diabetes. Ann Pediatr, 1975.
16. Rohn, R. and Maclaren, N.: Treatment of diabetic ketoacidosis. Ann Pediatr, 1975.
- 17.\* Maclaren, N.; Huang, S. and Fogh, J.: Antibody to cultured human insulinoma cells in insulin-independent diabetes. Lancet 1, 1975, p. 997-999.



- 18.\* Tanaka, J.; Garacia, J.; Max, S.; Viloría, J.; Kamijyo, Y.; Maclaren, N.; Cornblath, M. and Brady, R.: Cerebral sponginess and GM<sub>3</sub> gangliosidosis: Ultrastructure and probably pathogenesis. J Neuropath and Exp Neurol 34, 1975, p. 249-262.
- 19.\* Raiti, S.; Trais, E. and Maclaren, N.: Primary hypothyroidism: Differentiation from primary hypopituitarism. Amer J Dis Child 129, 1975, p. 1397-1399.
- 20.\* Maclaren, N.; Taylor, G. and Raiti, S.: Propranolol augmented, exercise induced human growth hormone release. Pediatrics 56, 1975, p. 804-807.
- 21.\* Maclaren, N.; Max, S.; Cornblath, M.; Brady, R.; Ozand, P.; Campbell, Jr.; Rennels, M.; Mergner, W. and Garcia, J.: GM<sub>3</sub> gangliosidosis: A novel human syringolipodystrophy. Pediatrics 57, 1976, p. 106-109.
- 22.\* Dershowitz, R.; Vestal, B.; Maclaren, N.: Transient hepatomegaly and hypoglycemia. A consequence of malicious insulin administration. Amer J Dis Child 130, 1976, p. 998-999.
- 23.\* Maclaren, N.; Albrink, M.; Raiti, S.; Chaddock, W.; Gabriele, O. and Chou, S.: Empty sella syndrome secondary to intrasellar cyst in adolescence. Amer J Dis Child 130, 1976, p. 1009-1012.
- 24.\* Crowder, W.; Maclaren, N. and Cornblath, M.: Pancreatic B cell hyperplasia: Failure of medical therapy including diazoxide and benefit of pancreatectomy. Pediatrics 57, 1976, p. 897-900.
- 25.\* Huang, S. and Maclaren, N.: Juvenile diabetes: A disease of autoaggression. Science 192, 1976, p. 64-66.
26. Maclaren, N. and Cornblath, M.: How much insulin? Amer J Dis Child 130, 1976, p. 1297-1310.
27. Maclaren, N.: Viral and Immunological Bases of Juvenile Diabetes, Amer J Dis Child 131, 1977, p. 1149-1154.
- 28.\* Huang, S. and Maclaren, N.: Antibodies to nucleic acids in juvenile onset diabetes. Diabetes 27, 1978, p. 1105.
- 29.\* Raiti, S.; Maclaren, N.; Trias, K. and Kim, C.: Abnormalities in growth hormone and insulin release in short but otherwise normal patients. Horm Res 8, 1977, p. 93-98.
- 30.\* Raiti, S.; Maclaren, N.; and Akesson, A.: Excessive F.S.H. excretion and production in males with untreated congenital adrenal hyperplasia. Pediatr Res 12, 1978, p. 87-89.
- 31.\* Tildon, J.T.; Maclaren, N.; Ozand, P.; and Karahasanoglu, A.M.: Glycerol induced changes in human serum dopamine beta hydroxylase activity. Biochem Pharmacol 27, 1978, p. 2369-2371.
- 32.\* Richton, S.; Maclaren, N.; McLaughlin, J.; and Raiti, S.: Thyrotoxicosis in Albright's syndrome. A case revisited. Pediatr 63(1), 1979, p. 159-162.
- Neufeld, M.; McLaughlin, J.; Maclaren, N.; Rosenbloom, E.; and Donnelly, W.: Failure to transfer diabetes mellitus from man to mouse. N Engl J Med 301, 1979, p. 665.
- Gudat, J.C.; Maclaren, N.K.: Neonatal screening for congenital disorders. J Fla Med Assoc 67, 1980, p. 137-142.
33. Neufeld, M.; Maclaren, N.; and Blizzard, M.: Autoimmune polyglandular syndromes. Pediatr Annals 9(4), 1980, p. 154-162.

34. Neufeld, M.; Maclaren, N.; and Riley, W.: HLA in American blacks with juvenile diabetes. N Engl J Med 303, 1980, p. 111-112.
35. Riley, W.; Neufeld, M.; and Maclaren, N.: Complement fixing islet cell autoantibodies: a separate species? Lancet 24, 1980, p. 113.
- 35\*. Neufeld, M.; Maclaren, N.; Riley, W.; Lezotte, D.; McLaughlin, J.; Silverstein, J.; and Rosenbloom, A.: Islet cell and other organ specific antibodies in U.S. caucasians and blacks with insulin dependent diabetes mellitus. Diabetes 29, 1980, p. 589-594.
- 36.\* Riley, W.; Maclaren, N.; and Neufeld, M.: Adrenal autoantibodies and Addison's disease in insulin dependent diabetes mellitus. J Pediatr 97(2), 1980, p. 191-194.
- 37\*. Raiti, S.; Maclaren, N.; and Akesode, F.A.: Precocious and delayed puberty. Studies of FSH and LH production and metabolism. Acta Endocrinol 94, 1980, p. 475-479.
- Cimino, P.; Banks, R.; Maclaren, N.; Rosenbloom, E.; Riley, W.; Rosenbloom, A.; and Root, A.: HLA and congenital hypothyroidism. N Engl J Med 303, 1980, p. 1177-1178.
38. Rosenbloom, A.; Silverstein, J.; Riley, W.; Lezotte, D.; McCallum, M.; Maclaren, N.; and Neufeld, M.: Total glycosylated hemoglobin estimation in the management of children and youth with diabetes. Bulletin of the International Study Group on Diabetes in Children and Adolescence. 4, 1980, p. 24-25.
- 39.\* Maclaren, N.; Riley, W.; McLaughlin, J.; and Taylor, G.: Androgen potentiation of streptozotocin induced diabetes in mice. Diabetes 29, 1980, p. 710-716.
40. Rosenbloom, A.; Silverstein, J.; Riley, W.; Malone, J.; Lezotte, D.; McCallum, M.; Maclaren, N.; and Neufeld, M.: Joint contracture in childhood diabetes indicates high risk for vasculopathy. Pediatr Adolesc Endocrinol 9, 1981, p. 143-148.
- 41.\* Elder, M.; Maclaren, N.; and Riley, W.: Gondadal antibodies in patients with hypogonadism and/or Addison's disease. J Clin Endo Metab 52, 1981, p. 1137-1142.
- 42.\* Riley, W.; Maclaren, N.; Lezotte, D.; Spillar, R.; and Rosenbloom, A.: Autoimmune thyroid disease in insulin dependent diabetes. The case for routine screening. J Pediatr 98, 1981, p. 350-354.
- 43.\* Maclaren, N.; Rosenbloom, A.; McLaughlin, J.; Bruck, E.; and Lezotte, D.: HLA haplotypes and IDD in multiplex families. IRCS Med Sci 9, 1981, p. 631-632.
- 44.\* Riley, W.; McConnell, T.; Maclaren, N.; McLaughlin, J.; and Taylor, G.: The diabetogenic effects of streptozotocin in mice are prolonged and inversely related to age. Diabetes 30, 1981, p. 718-723.
- 45.\* Neufeld, M.; Maclaren, N.; and Blizzard, R.: Two types of autoimmune Addison's disease associated with different polyglandular autoimmune (PGA) syndromes. Medicine 60, 1981, p. 355-362.
- 46.\* Rand, K.; Rosenbloom, A.; Maclaren, N.; Silverstein, J.; Riley, W.; Rubenstein, A.; and Merigan, T.: Human leukocyte interferon treatment of two children with insulin dependent diabetes. Diabetologia 21, 1981, p. 116-119.
- 47.\* Elder, M.; Maclaren, N.; Riley, W.; and McConnell, T.: Gastric parietal cell and other autoantibodies in the BB rat. Diabetes 31, 1982, p. 313-318.
48. Maclaren, N. and Riley, W.: Autoimmune diseases and the pediatrician. Pediatric Annals 11, 1982, p. 333-347.

- 49.\* Riley, W.; Toskes, P.; Maclaren, N. and Silverstein, J.: Predictive value of gastric parietal cell autoantibodies as a marker for gastric and hematologic abnormalities associated with insulin dependent diabetes. Diabetes 31, 1982, p. 1051-1055.
- 50.\* Rosenbloom, A.; Hunt, S.; Rosenbloom, E. and Maclaren, N.: Ten year prognosis of impaired glucose tolerance in sibilings of patients with insulin dependent diabetes. Diabetes 31, 1982, p. 385-387.
- Riley, W.; Maclaren, N. and Rosenbloom, A.: Thyroid autoimmunity in young diabetics. (Letter to the editor) Lancet II, 1982, p. 489-490.
- 51.\* Rosenbloom, A.; Silverstein, J.; Lezotte, D.; Riley, W. and Maclaren, N.: Limited joint mobility in diabetes mellitus of childhood. Natural history and relationship to growth impairment. J Pediatrics 101, 1982, p. 874-878.
- Maclaren, N. and Riley, W.: Organ specific autoantibodies and insulin dependent diabetes: A new resource for diabetes research, NDRI. Washington, D.C., 1982.
- 52.\* Winter, W.; Rosenbloom, A.; Maclaren, N. and Mickle, J.: Solitary central maxillary incisor associated with precocious puberty and a hypothalamic hamartoma. J Pediatrics 101, 1982, p. 965-967.
- Phillips, I.; Weiner, R.; Maclaren, N. and Kappy, M.: Test of false positive testicular cancer marker by suppressing luteinizing hormone with testosterone. (Letter to the editor) Lancet 2, 1982, p. 2750.
53. Maclaren, N.: Viruses in the pathogenesis of type I diabetes. Proceedings of the Satellite Symposium. Europ Soc Clin Res Luxembourg, April, 1982.
- 54.\* Rosenbloom, A.; Kappy, M.; DeBusk, F.; Philpot, T. and Maclaren, N.: Progeria, insulin resistance and hyperglycemia. J Pediatr 102, 1983, p. 400-402.
- 55.\* Elder, M. and Maclaren, N.: Identification of profound T lymphocyte immunodeficiencies in the spontaneously diabetic BB rat. J Immunol 130 (4), 1983, p. 1723-1731.
- 56.\* Maclaren, N.; Elder, M.; Robbins, V. and Riley, W.: Autoimmune diathesis and T lymphocyte immunoincompetence in BB rats. Metabolism 32(Suppl.1), 1983, p. 92-96.
- 57.\* McCoy, S.; Gudat, J. and Maclaren, N.: Bilirubin interferes in the ACA determination of Mg<sup>2+</sup> in serum. Clin Chem 29, 1983, p. 1309.
- 58.\* Winter, W.; Silverstein, J.; Maclaren, N.; Riley, W. and Chiaro, J.: Autosomal dominant hypoparathyroidism with variable, age dependent severity. J Pediatr 103, 1983, p. 387-390.
- 59.\* Rosenbloom, A.; Silverstein, J.; Riley, W. and Maclaren, N.: Limited joint mobility in childhood diabetes: Family studies. Diabetes Care 6, 1983, p. 370-373.
- 60.\* Ketchum, M.; Robinson, C.; Hall, L.; Grizzle, W.; Maclaren, N.; Riley, W. and Trost, C.: Clinical significance and partial biochemical characteristics of lactate dehydrogenase isoenzyme 6. Clin Chem 30 (1), 1984, p. 46-49.
- Betterle, C.; Mirakian, R.; Doniach, D.; Bottazzo, G.; Riley, W. and Maclaren, N.: Antibodies to melanocytes in vitiligo. (Letter to the editor), Lancet 1, 1984, p. 159.

- 61.\* Winter, W.R.; Riley, W.J.; Maclaren, N.K.; Unger, R.H.; Ozand, P.T. and Neufeld, M.: Pancreatic alpha cell autoantibodies and glucagon response to arginine. Diabetes 33, 1984, p. 435-437.
- 62.\* Ketchum, C.; Riley, W. and Maclaren, N.: Adrenal dysfunction in asymptomatic patients with adrenocortical autoantibodies. J Clin Endo Metab 58(6), 1984, p. 1166-1170.
- 63.\* Freidrich, E.G. and Maclaren, N.K.: Genetic aspects of vulvar lichen sclerosis. Amer J Obstetr Gynecol 150, 1984, p. 161-166.
- Riley, W. and Maclaren, N.: Islet cell autoantibodies are seldom transient. (Letter to the editor), Lancet 1, 1984, p. 1351-1352.
- Maclaren, N.: Immunology in Diabetes. Book Review. Diabetes Res 1, 1984, p. 53-55.
- 64.\* Gilani, B.; MacGillivray, M.; Voorhess, M.; Mills, B.; Riley, W. and Maclaren, N.: Thyroid hormone abnormalities at diagnosis of insulin dependent diabetes mellitus in children. J Pediatrics 105, 1984, p. 218-222.
- 65.\* Maclaren, N. and Riley, W.: Thyroid, gastric and adrenal autoimmunities and insulin dependent diabetes. Diabetes Care, 8 Suppl., Sept-Oct 1985, p. 34-38.
- 66.\* Hung, W.; Maclaren, N.; Kapur, S., Anderson, K. and August, G.: Premature ovarian failure in a 15 year old. Clinical Pediatrics, 25 (1), 1986, p. 40-42.
- 67.\* Ayoub, E.M.; Barrett, D.J.; Maclaren, N.K.; and Krischer, J.P.: Association of Class II HLA Antigens With Rheumatic Fever. J Clin Invest, 107 (3), 1986, p. 204.
- 68.\* Maclaren, N. and Riley, W.: Inherited susceptibility to autoimmune Addison's disease is linked to human leukocyte antigens-DR3 and/or DR4, except when associated with type I autoimmune polyglandular syndrome. J Clin Endo Metab, 62 (3), 1986, p. 455-459.
69. Maclaren, N.K.; Henson, V.: The Genetics of Insulin Dependent Diabetes. Growth, Genetics & Hormones, 2 (1), 1986, p. 1.
- 70.\* Morrison, E. Y.; Rosenbloom, A.L.; Maclaren, N.K.; Riley, W.J.; Kooperman, S.: Absence of islet cell autoantibodies in Jamaican Blacks with diabetes mellitus. West Indian Med J 35, 1986, p. 35-37.
- 71.\* Henson, V.; Maclaren, N.; Winter, W.; Riley, W.; Rotter, J.; Wakeland, E.K.: Molecular genetics of insulin-dependent diabetes mellitus. Mol Biol Med 3, 1986, p. 129-136.
- 72.\* Riley, W.J.; Maclaren, N.K.; Spillar, R.S.: Reversal of deteriorating glucose tolerance with Azathioprine in prediabetes. Transplant Proceed 18 (4), 1986, p. 819-822.
- 73.\* Ramachandran, A.; Rosenbloom, A.L.; Mohan, V.; Snehalatha, C.; Viswanathan, M.; Riley W.J.; Maclaren, N.K.; Kooperman, S.: Autoimmunity in South Indian patients with IDDM. Diabetes Care 9 (4), 1986, p. 435-438.
- 74.\* Vadheim, C.; Rotter, J.; Maclaren, N.; Riley, W.; and Anderson, C.: Preferential transmission of diabetic alleles within the HLA gene complex. N Engl J Med 315, 1986, p. 1314-1318.
- 75.\* Atkinson, M.A.; Maclaren, N.K.; Riley, W.J.; Winter, W.E.; Fisk, D.D.; and Spillar, R.P.: Are insulin auto antibodies markers for insulin-dependent diabetes mellitus? Diabetes 35, 1986, p. 894-898.

- 76.\* Hitchcock, C.L.; Riley, W.J.; Alamo, A.; Pyka, R.; Maclaren, N.K.: Lymphocyte subsets and activation in prediabetes. Diabetes, 35(12), 1986; p. 1416-1422.
77. Skordis, N.; Winter, W.E.; Maclaren, N.K.: Acute-onset diabetes. Reversing diabetic ketacidosis Drug Therapy 16, 1986, p. 26-42.
- 78.\* Winter, W.E.; Maclaren, N.K.; Riley, W.J.; Andres, J.; Toskes, P.P.; and Rosenbloom, A.L.: Congenital pancreatic hypoplasia: A novel diabetes syndrome of exocrine and endocrine pancreatic insufficiency. Pediatrics 109, 1986, p. 465-469.
79. Rotter, J.I., Vadheim, C.M., Petersen, G.M., Cantor, R.M., Riley, W.J. and Maclaren, N.K.: HLA haplotype sharing and proband genotype in IDDM. Genetic Epidemiology Supplement 1, 1986, p. 347-352.
- 80.\* Winter, W.E.; Maclaren, N.K.; Riley, W.J.; Clarke, D.W.; Kappy, M.S.; and Spillar, R.P.: Maturity onset diabetes of youth in Black Americans. N Engl J Med, 316, 1987, p. 285-291.
- 81.\* Winter, W.E.; Beppu, H.; Maclaren, N.K.; Cooper, D.L.; Bell, G.I.; Wakeland, E.K.: Restriction fragment length polymorphisms of the 5' flanking region of the insulin I gene in the BB and other rat strains and absence of association with insulin dependent diabetes mellitus. Diabetes, 36, 1987, p. 193-198.
82. Maclaren, N.K., Silverstein, J.H., Spillar, R.P., Skordis, N., Winter, W.E., Riley, W.J.: Immunosuppressive therapy in insulin dependent diabetes. Acta Paediatrica Japonica 29(3), 1987, p. 349-354.
- Rotter, J.I., Vadheim, C.M., Maclaren, N.K., Riley, W.J.: Modes of inheritance of IDDM. (letter) N Engl J Med, 316, 1987, p. 1478.
83. Maclaren, N.; Riley, W. and Silverstein, J.: Insulin dependent diabetes: Inherited susceptibility, natural history and intervention trials. Acta Paediatrica Japonica 29(1), 1987, pp. 24-30.
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