

CURRICULUM VITAE

Alan Robert Sinaiko, M.D.

Personal History

Date of Birth:	June 11, 1940
Place of Birth:	Madison, Wisconsin
Marital Status:	Married; 3 children

Education

B.A.	University of Minnesota	1961
B.S.	University of Minnesota	1962
M.D.	University of Minnesota	1965

Professional Positions

Internship	U.C.L.A. Center for the Health Sciences	1965-66
Residency	U.C.L.A. Center for the Health Sciences and Los Angeles County Harbor General Hospital	1966-67
	University of Colorado Medical Center	1967-68
United States Air Force Pediatrician	Carswell Air Force Base, Ft. Worth, Texas	1968-70
Medical Fellow	Department of Pediatrics, Division of Pediatric Nephrology and Clinical Pharmacology University of Minnesota Medical School	1971-74
Assistant Professor	University of Minnesota Medical School Departments of Pediatrics and Pharmacology Division of Clinical Pharmacology	1974-81
Associate Professor	University of Minnesota Medical School	1981-1989

Departments of Pediatrics and Pharmacology
Division of Clinical Pharmacology

Professor	University of Minnesota Medical School Department of Pediatrics	1989-present
-----------	--	--------------

Professor (Adjunct)	University of Minnesota School of Public Health Division of Epidemiology	2000-present
---------------------	---	--------------

Professional Activities

Organizations

American Academy of Pediatrics
Society for Pediatric Research
American Pediatric Society
American Society for Pediatric Nephrology
International Pediatric Nephrology Association
American Society of Pharmacology and Experimental Therapeutics
American Society of Hypertension
American Society of Nephrology
American Society for Clinical Pharmacology and Therapeutics
Fellow, American Heart Association Council for High Blood Pressure Research

National Committee Membership

NHLBI Workshop on Juvenile Hypertension, 1983
NHLBI Study Section on Juvenile Hypertension, 1985
NHLBI Task Force on Blood Pressure Control in Children, 1983-1987
NHLBI Ad Hoc Study Sections, 1986-present
NHLBI Working Group on Childhood Blood Pressure, 1988
NHLBI Consultative Committee on Treatment of Hypertension and Hyperlipidemia,
1992
Food and Drug Administration Advisory Panel, Over-the-Counter Drugs, 1992-1995
NHLBI Task Force on Update of Blood Pressure Control in Children, 1996-present
ASH Advisory Committee on Hypertension Specialists, 1997-present

Editorial Board

American Journal of Hypertension

Editorial Review

Journal of Pharmacology and Experimental Therapeutics
American Journal of Hypertension
Pediatric Nephrology
Journal of the American Medical Association
American Journal Diseases of Children

Journal American Society of Nephrology
Hypertension
American Journal of Epidemiology

Research Support

A. Current

NHLBI: "Influence of Insulin on BP Change During Adolescence", 2000-2004; 40%;
\$1,952,516; P.I.: Alan R. Sinaiko

NIH # DK 07084: "Prefaculty Training in Pediatric Nephrology;" 1995-2004; \$680,872;
P.I.: Michael S. Mauer

NIH: "Renin-Angiotensin Inhibition and Early Diabetic Nephropathy Lesions"; 1997-
2003; 20%; \$1,887,763; P.I.: Michael S. Mauer. Alan R. Sinaiko: Study Executive
Committee; Director, Quality Control

NIH: K23 Mentored Patient-Oriented Research Career Development Award, 1999-2004;
\$664,003. Recipient, Julia Steinberger. Mentor, Alan R. Sinaiko

NIH: "Insulin Therapy to Ameliorate Protein Catabolism in CF"; 2001-2006; 5%
\$4,184,083; P.I.: Antoinette Moran. Alan R. Sinaiko: Study Executive Committee

B. Previous

State of Minnesota: "Factors Influencing Blood Pressure in Children"; 1980-1982;
\$40,000; P.I.: Alan R. Sinaiko

A.H. Robins Co.: "Prevention of High Blood Pressure in Children"; 1983-1986;
\$100,056; P.I.: Alan R. Sinaiko

Miles Pharmaceuticals: "Efficacy and Safety of Nitrendipine in Children"; 1985-1989;
\$59,422; P.I.: Alan R. Sinaiko

NHLBI # HL 34659: "Sodium-Potassium Blood Pressure Trial in Children;" 1985-1992;
30%; \$2,349,551; P.I.: Alan R. Sinaiko

Juv Diab Foundation: "Natural History of Nephropathy in Type I Diabetes;" 9/1/91 -
8/31/93; 10%; \$49,145; P.I.: Michael S. Mauer

NIH-JDF: "Natural History of Diabetic Nephropathy in Children and Young Adults";
1992-1997; 10%; \$2,500,000; P.I.: Michael S. Mauer

NHLBI: "Prevention of High Blood Pressure in Children"; 1992-1997; P.I.: Richard
Donahue, Miami, FL. Minnesota component: P.I.: Alan R. Sinaiko; 20%; \$680,232

NHLBI: "Influence of Insulin on BP Change During Adolescence"; 1995-2000; 30%;
\$1,561,579; P.I.: Alan R. Sinaiko

Invited Presentations

1998

International Pediatric Nephrology Association, London, England, "Investigation and Treatment of Neonatal Hypertension."

National Kidney Foundation, Nashville, Tennessee, "Hypertension and Insulin Resistance."

American Society of Pediatric Nephrology, New Orleans, Louisiana, "Weight, Blood Pressure, and Cardiovascular Risk."

1999

Symposium on Pediatric Hypertension, University of the Witwatersrand, Johannesburg, South Africa.

Pediatric Cardiovascular Trials Conference, Duke Clinical Research Institute, Duke University, Durham, North Carolina.

2000

Department of Pediatrics, Ohio State Medical School, "Insulin Resistance and Blood Pressure in Children."

Department of Pediatrics, University of Arkansas Medical School, "Insulin Resistance Syndrome in Children."

AHA Conference on Cardiovascular Disease Epidemiology and L.J. Filer 3rd International Conference on Atherosclerosis in the Young, San Diego, California, "Insulin Resistance and Cardiovascular Risk in Children."

2001

First International Workshop on Insulin Resistance, Jacksonville, Florida, "Relation between Insulin Resistance and Development of Cardiovascular Risk in Adolescents."

Pediatric Hypertension Symposium, American Society of Hypertension Annual Meeting, San Francisco, California, "Environmental Influences on Blood Pressure in Children."

2002

KIGS/KIMS 5th Annual National Meeting, San Diego, California, "Insulin Resistance Syndrome in Children and Adolescents."

Duke Clinical Research Institute and NIH meeting on Metabolic Syndrome of Cardiovascular Risk and Insulin Resistance. "Pediatric Aspects of Insulin Resistance Syndrome". Washington DC, April 19-20, 2002.

American Diabetes Association, Pediatric Lipid Disorder Study Group, "Relation of Insulin Resistance to Lipids in Childhood," New York, New York.

Karolinska Institute, "Insulin Resistance in Children and Parents"; "Genetics of Insulin Resistance", Stockholm, Sweden.

American Heart Association Scientific Sessions, “Blood Pressure and Insulin Resistance,”
Chicago, Illinois.

2003

NICHD Research Planning for Insulin Resistance Syndrome, Washington, DC.

American Academy Pediatrics, South Carolina, “Relation of Blood Pressure in Children for
Obesity and Cardiovascular Risk”.

World Congress for the Insulin Resistance Syndrome, Los Angeles, CA.

BIBLIOGRAPHY

Refereed Articles

- Sinaiko, A., Najarian, J., Michael, A.F. and Mirkin, B.L.: Renal autotransplantation in the treatment of bilateral renal artery stenosis: Relief of hypertension in an eight year-old boy. *J Peds* 1973; 83:409.
- Sinaiko, A. and Mirkin, B.L.: The ontogenesis of the renin-angiotensin system in spontaneously hypertensive and normal Wistar rats. *Circ Res* 1974; 34:693-696.
- Cooper, M.J., Sinaiko, A.R., Anders, M.W. and Mirkin, B.L.: High pressure liquid chromatographic determination of hydrochlorothiazide in human serum and urine. *Anal Chem* 1976; 48:1110-1111.
- Sinaiko, A.R. and Mirkin, B.L.: Management of severe childhood hypertension with minoxidil: A controlled clinical study. *J Peds* 1977; 91:138-142.
- Sinaiko, A.R. and Mirkin, B.L.: Isoproterenol-evoked renin release from the in situ perfused kidney: Dose-response characteristics in spontaneously hypertensive and normotensive Wistar rats. *Circ Res* 1978; 42:381-385.
- Sinaiko, A.R. and Mirkin, B.L.: Clinical response of hypertensive children to long-term minoxidil therapy. *J Cardiovasc Pharmacol* 1980; 2(Suppl 2):181-188.
- Sinaiko, A.R., Cooper, M.J., and Mirkin, B.L.: Effect of neonatal sympathectomy with 6-hydroxydopamine on reactivity of the renin-angiotensin system in spontaneously hypertensive rats. *Clin Sci* 1980; 59:123-129.
- Green, T.P., Nevins, T.E., Houser, M.T., Sibley, R., Fish, A.F., and Sinaiko, A.R.: Renal failure as a complication of acute antihypertensive therapy. *Pediatrics* 1981; 67(6):850-854.
- Sinaiko, A.R.: Influence of adrenergic nervous system on vasodilator-induced renin release in the conscious rat. *Proceedings Society Experimental Biology Medicine* 1981; 167(1):25-29.
- Sinaiko, A.R., Gillum, R.F. and Prineas, R.J.: Renin-angiotensin and sympathetic nervous system activity in grade-school children. *Hypertension* 1982; 4:299-306.
- Sinaiko, Alan R. and Mirkin, Bernard L.: Influence of salt depletion and hydralazine-induced vasodilatation on accuracy of selective renal vein sampling in patients with essential hypertension and renal artery stenosis. *Am J Nephrology* 1982; 2:261-268.

- Sinaiko, A.R., Glasser, R.J., Gillum, R.F., and Prineas, R.J.: Urinary kallikrein excretion in grade-school children with high and low blood pressure. *J Pediatrics* 1982; 100(6):938-940.
- Gillum, R.F., Prineas, R.J., Sopko, G., Koga, Y., Kubicek, William, Robitaille, N.M., Bass, J. and Sinaiko, A.: Elevated blood pressure in school children: Prevalence, persistence and hemodynamics. The Minneapolis Children's Blood Pressure Study, *Am Heart J* 1983; 105:316-322.
- Sinaiko, A.R., Mirkin, B.L., Hendrick, D.A., Green, T.P. and O'Dea, R.F.: Antihypertensive effect and elimination kinetics of captopril in hypertensive children with renal disease. *J Pediat* 1983; 103:799-805.
- Sinaiko, A.R.: Influence of adrenergic nervous and prostaglandin systems on hydralazine-induced renin release. *Life Science* 1983; 33:2269-2275.
- Gomes, A.S., Sinaiko, A.R., Tobian, L., Cohn, J.N., Formanek, G. and Amplatz, K.: Hydralazine and the tourniquet test in renal vein sampling: A comparison. *Radiology* 1983; 146:657-661.
- Lund, G., Sinaiko, A., Castaneda-Zuniga, W.R., Gragg, A.H., Salomonowiz, E. and Amplatz, K.: Percutaneous transluminal angioplasty for treatment of renal artery stenosis in children. *Rev. Inter. Americana Radiologia* 1984; 8:123-126.
- Green, T.P., Mirkin, B.L., Peterson, P.K., Sinaiko, A.R., Ramsay, N.K.C. and O'Dea, R.F.: A prospective evaluation of serum tobramycin level monitoring in pediatric patients with normal renal function. *Clin Pharmacokinetics* 1984; 9:457-468.
- Houser, M., Zimmerman, B., Davidman, M., Smith, C., Sinaiko, A., and Fish, A.: Idiopathic hypercalciuria associated with hyperreninemia and high urinary prostaglandin E *Kid Int* 1984; 26:176-182.
- Gomez, A.S., Sinaiko, A.R., Tobian, L., Cohn, J.N., Formanek, A.G., Roe, D.J. and Amplatz, K.: Renal vein renin sampling in essential hypertension using hydralazine and the tourniquet test. *Radiology* 1984; 153:619-623.
- Sinaiko, A.R., Holman, R.T. and Green, T.P.: Effectiveness of dietary essential fatty acid deficiency in development of a model of endogenous renal prostaglandin deficiency. *Prostaglandins, Leukotrienes and Medicine* 1985; 19: 87-98.
- Sinaiko, A. R., Kashtan, C., and Mirkin, B. L.: Antihypertensive drug therapy with captopril in children and adolescents. *Clinical and Experimental Hypertension* 1986; A8:829-839.
- Prineas, R. J., Gomez, O. and Sinaiko, A. R.: Electrolytes and blood pressure levels in childhood hypertension: Measurement and change. *Clinical and Experimental Hypertension* 1986; A8:583-604.

- Sinaiko, A.R. with the International Committee on Hypertension in Children: Recommendations for treatment of hypertension in children and adolescents. *Clin.Exp. Hypertension* 1986; A8:915-918.
- Sinaiko A.R., Bass, J., Gomez-Marin, O. and Prineas, R.J.: Cardiac status of adolescents tracking with high and low blood pressure since early childhood. *J Hypertension* 1986; 4 (Suppl 5):S378-S380.
- Sinaiko, A.R. with the Task Force on Blood Pressure Control in Children: Report of the Task Force in Blood Pressure Control in Children-1987. *Pediatrics* 1987; 79:1-25.
- Horan, M.J. and Sinaiko A.R.: Synopsis of Report of the Second Task Force on Blood Pressure Control in Children-1987. *Hypertension* 1987; 10:115-121.
- Sinaiko, A.R., Gomez-Marin and Prineas, R.J.: "Significant" diastolic hypertension in pre-high school black and white children: The Children and Adolescent Blood Pressure Program. *Am J Hypertension* 1988; 1:178-180.
- O'Dea, R.F., Mirkin, B.L., Alward, C.T. and Sinaiko, A.R.: Treatment of neonatal hypertension with captopril. *J Pediatr* 1988; 113:403-406.
- O'Dea, R.F., Green, T.P. and Sinaiko, A.R.: Effects of essential fatty acid deficiency on renal papillary lipid methylation. *Prost, Leuk, Medicine* 1988; 33:199-202.
- Herrera J, Rodriguez-Iturbe B, Parra G, Coello J, Garcia R, Colina-Chouria J and Sinaiko A: Urinary prostaglandin E and kallikrein activity in glomerular hyperfiltration induced by a meat meal in man. *Clin Nephrol* 1988; 30:151-157.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Prevalence of "significant" hypertension in junior high school-aged children. *J Pediatr* 1989; 114:664-669.
- Bunchman, T.E. and Sinaiko, A.R.: Renovascular hypertension presenting with hypokalemic metabolic alkalosis. *Pediatr Nephrol* 1990; 4:169-170.
- Sinaiko, A.R., Gomez-Marin, O.G. and Prineas, R.J.: Diastolic fourth-phase and fifth-phase blood pressure in children. *Am J Epidemiol* 1990; 132:647-655.
- Sinaiko, A.R.: Prostaglandin E production in Dahl rat renal papillae: Stimulus dependent response. *Am J Hypertens* 1991; 4:76-80.
- Gomez-Marin O., Prineas R.J. and Sinaiko A.R.: The sodium-potassium blood pressure trial in children: Design, recruitment and randomization. The Children and Adolescent Blood Pressure Program. *Controlled Clinical Trials* 1991; 12:408-423.

- Wells, T.G. and Sinaiko, A.R.: Antihypertensive effect and pharmacokinetics of nitrendipine in hypertensive children. *J Pediatr* 1991; 118:638-643.
- Munger, R., Gomez-Marin, O, Prineas, R.P. and Sinaiko, A.R.: Elevated blood pressure in Southeast Asian refugee children. *Am J Epidemiol* 1991; 133:1257-1265.
- Mullenbach, V., Kushi, L.H., Jacobson, C., Roth-Yousey, L., Gomez-Marin, O., Prineas, R.P. and Sinaiko, A.R.: Comparison between three-day food records and telephone 24-hour recall for dietary evaluation in adolescents: The Children and Adolescent Blood Pressure Program. *J Am Diet Assc* 1992; 92:743-745.
- Arneson, T., Luepker, R., Pirie, P. and Sinaiko, A.: Cholesterol screening by primary care pediatricians. *Pediatrics* 1992; 89:502-505.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Effect of low sodium diet or potassium supplementation on adolescent blood pressure. *Hypertension* 1993; 21:989-994.
- Sinaiko, A.R.: Clinical pharmacology of converting enzyme inhibitors, calcium channel blockers and diuretics. *J Hum Hypertens* 1994; 8:389-394.
- Vogt, B.A., Kim, Y., Jennette, J.C., Falk, R.J., Burke, B.A., Sinaiko, A.: Anti-neutrophil cytoplasmic autoantibody-positive crescentic glomerulonephritis as a complication of propylthiouracil treatment in children. *J Pediatr* 1994; 124:986-988.
- Sinaiko, A.R., Gomez-Marin, O., Smith, C.L. and Prineas, R.J.: Comparison of serum calcium levels between junior high school children with high normal and low normal blood pressure: The Child and Adolescent Blood Pressure Program. *Am J Hypertens* 1994; 7:1045-1051.
- Paller, M.S., Cahil, B., Harmon, K.R., Miller, R.B., Sinaiko, A.R., Burke, B., Manivel, J.C.: Glomerular disease and lung transplantation. *Am J Kid Dis* 1995; 26:527-531.
- Bendel-Stenzel, M., Najarian, J.S., Sinaiko, A.R.: Renal artery stenosis in infants: Long-term medical treatment before surgery. *Pediatr Nephrol* 1996; 10:147-151.
- Georgieff, M.K., Mills, M.M., Gomez-Marin, O., Sinaiko, A.R.: Rate of change of blood pressure in premature and full term infants from birth to four months. *Pediatr Nephrol* 1996; 10:152-155.
- Sinaiko, A.R. and Michael, A.F.: Reflux nephropathy and hypertension: more whys and wherefores. *Lancet* 1996; 347:633-634.
- Sinaiko, A.R., with the National High Blood Pressure Pediatrics Working Group: Update on the task force report (1987) on high blood pressure in children and adolescents. *Pediatrics* 1996; 98:649-658.

- Simonton, S.C., Soltzman, D.A., Brennom, W., Pergament, M., Drake, G., Sinaiko, A., Priest, J.R.: Cystic renal lymphangiectasia: A distinctive clinicopathologic entity in the pediatric age group. *Ped Path Lab Med* 1997; 17:293-301.
- Sinaiko, A.R., Gomez-Marin, O., Prineas, R.J.: Relation of fasting insulin to blood pressure and lipids in adolescents and parents. *Hypertension* 1997; 30:1554-1559.
- Sinaiko, A.R., Prineas, R.J.: Reduction of cardiovascular disease: What is the role of the pediatrician? *Pediatrics* 1998; 102:e61.
- Sinaiko, A.R., Donahue, R.P., Jacobs, D.R., Prineas, R.J.: Relation of weight and rate of increase in weight during childhood and adolescence to body size, blood pressure, fasting insulin, and lipids in young adults. The Minneapolis Children's Blood Pressure Study. *Circulation* 1999; 99:1471-1476.
- Luepker, R., Prineas, R., Jacobs, D., Sinaiko, A.: Secular trends of blood pressure and body size in a multi-ethnic adolescent population: 1986-1996. *J Pediatrics* 1999; 134:668-674.
- Vats, K.R., Vats, A., Kim, Y., Dassenko, D., Sinaiko, A.R.: Henoch-Schonlein purpura and pulmonary hemorrhage: A report and literature review. *Pediatric Nephrology* 1999; 13:530-534.
- Moran, A., Jacobs, D.R., Steinberger, J., Hong, C-P., Prineas, R., Luepker, R., Sinaiko, A.R.: Insulin resistance during puberty: Results from clamp studies in 357 children. *Diabetes* 1999; 48:2039-2044.
- Steinberger, J., Moller, J., Sinaiko, A.R.: Echocardiographic diagnosis of heart disease in apparently healthy adolescents. *Pediatrics* 2000; 105: 815-818.
- Moran, A., Sinaiko, A.R.: Influence of intrauterine environment on development of insulin resistance. *J Pediatr* 2000; 136 567-568.
- Sinaiko AR. Insulin resistance syndrome in children. *CVD Prevent* 2000; 3: 153-154.
- Pierpont, M.E., Hentges, A. S., Gears, L. S., Hirsch, B., Sinaiko, A. R.: Unbalanced 4;6 translocation and progressive renal disease. *Am J Med Genetics* 2000; 95: 275-280.
- Arnett, D.K., Glasser, S.P., McVeigh, G., Prineas, R., Donahue, R., Cohn, J.N., Sinaiko, A. Blood pressure and arterial compliance in young adults: The Minneapolis Childrens Blood Pressure Study. *Am J Hypertens* 2001; 14: 200-205.
- Steinberger, J., Moran, A., Hong C.P., Jacobs, D.R., Sinaiko, A.R. Adiposity in childhood predicts obesity and insulin resistance in young adults. *J Pediatr*, 2001; 138: 469-473.

- Adroque, H.E., Sinaiko, A.R. Prevalence of hypertension in junior high school-aged children: Effect of new recommendations in the 1996 updated task force report. *Am J Hypertens* 2001; 14: 412-414.
- Sinaiko AR, Daniels S. The use of short-acting nifedipine in children with hypertension: Another example of the need for comprehensive drug testing in children. *J Pediatr* 2001; 139: 7-9.
- Sinaiko, AR. Measurement of blood pressure in children. *Am J Hypertens* 2001; 14: 976-977.
- Sinaiko, AR, Lauer, RM, Sanders, SP. End points for cardiovascular drug trials in pediatric patients. *Am Heart J* 2001; 142: 229-232.
- Valente, AM, Strong, W, Sinaiko, AR. Obesity and insulin resistance in young people. *Am Heart J* 2001; 142: 440-444.
- Kay, JD, Sinaiko, AR, Daniels, SR. Pediatric hypertension. *Am Heart J* 2001; 142: 422-432.
- Sinaiko AR, Jacobs DR Jr, Steinberger J, Moran A, Luepker R, Rocchini AP, Prineas RJ. Insulin resistance syndrome in childhood: Associations of the euglycemic insulin clamp and fasting insulin with fatness and other risk factors in 357 clamp studies. *J Pediatr* 2001; 139: 700-707.
- Sinaiko AR, Steinberger J, Moran A, Prineas RP, Jacobs DR, Jr. Relations of insulin resistance to blood pressure in childhood. *J Hypertens* 2002; 20: 509-518.
- Sinaiko AR, with the International Diabetic Nephropathy Study Group. The early natural history of nephropathy in type 1 diabetes: Study design and baseline characteristics of the study participants. Mauer, SM and Drummond K, lead authors. *Diabetes*; 2002; 51: 1572-1579.
- Sinaiko AR, with the International Diabetic Nephropathy Study Group. The early natural history of nephropathy in type 1 diabetes: Early renal structural changes in type 1 diabetes. Mauer, SM and Drummond K, lead authors. *Diabetes*; 2002; 51: 1580-1587.
- Schmitz KH, Jacobs DR Jr., Hong C-P, Steinberger J, Moran A, Sinaiko AR. Association of physical activity with insulin sensitivity in children. *Int J Obes*, 2002; 26: 1310-1316.
- Steinberger J, Jacobs DR Jr., Moran A, Hong C-P, Rocchini AP, Prineas RJ, Sinaiko AR. Relation of insulin resistance and body composition to left ventricular mass in children. *Am J Cardiol*, 2002; 90: 1177-1180.
- Moran A, Jacobs DR Jr., Steinberger J, Cohen P, Hong C-P, Prineas RJ, Sinaiko AR. Association between the insulin resistance of puberty and the IGF-1/growth hormone axis. *J Clin Endocrinol Metab*, 2002; 87: 4817-4820.

- Murtaugh M, Jacobs DR Jr., Moran A, Steinberger J, Sinaiko AR. Relation of birthweight to fasting insulin, insulin resistance, and body size in adolescence. *Diab Care*, 2003; 26: 187-192.
- Mauer M, Bernard Z, Gardiner R, McGill, Drummond KN, Suissa S, Donnelly SM, Strand TD, Kramer MS, Klein R, Sinaiko AR. ACE-I and ARBs in early diabetic nephropathy. *JRAAS*, 2002; 3: 262-269.
- Steinberger J, Steffen L, Jacobs DR Jr., Moran A, Hong C-P, Sinaiko AR. The relations of leptin to the insulin resistance syndrome in children. *Obesity Research* 2003; In Press.
- Steffen LM, Jacobs DR, Murtaugh M, Moran A, Steinberger J, Hong CP, Sinaiko AR. Whole grain intake is associated with lower body mass and greater insulin sensitivity among adolescents. *Am J Epidemiol* 2003; In Press.
- Drummond KM, Kramer MS, Suissa S, Levy-Marchal C, Dell' Aniello, Sinaiko AR, Mauer M for the International Diabetic Nephropathy Study Group. The effects of duration and age at onset of type 1 diabetes on preclinical manifestations of nephropathy. *Diabetes* 2003; In press.

Review Articles

Sinaiko, A.R. and Mirkin, B.L.: Clinical pharmacology of antihypertensive drugs in children, Ped. Clin. No. Amer. 25:137-157, 1978.

Wahlig T., Thompson, T. and Sinaiko, A.R.: Effects of Drugs on Renal Function. In: Clinics in Perinatology, 19:251-263, 1992.

Sinaiko A.R.: Pharmacologic Management of Childhood Hypertension. In: Pediatric Clinics of North America, 40:195-212, 1993.

Sinaiko, A.R.: Treatment of hypertension in children. Pediatr Nephrol 8:603-609, 1994.

Sinaiko, A.R.: Current Concepts - Hypertension in children and adolescents. New Eng J Med 335:1968-1973, 1996.

Book Chapters and Other

- Cooper, M.J., Anders, M.W., Sinaiko, A.R. and Mirkin, B.L.: Application of HPLC to the study of the disposition of hydrochlorothiazide in adults and children. In: High pressure liquid chromatography in clinical chemistry, Ed. P.F. Dixon, C.H. Gray, C.K. Lim, and M.S. Stoll, Academic Press, 1976, p. 176.
- Mirkin, B.L. and Sinaiko, A.R.: Principles of treatment of hypertension in preadolescent children, Pediatric Nephrology Seminar, Vol. 3, Stratton Intercontinental Medical Book Corp., New York, 1976.
- Mirkin, B.L. and Sinaiko, A.R.: Clinical Pharmacology and Therapeutic Utilization of Antihypertensive Agents in Children. In: Juvenile Hypertension, M.I. New and L.S. Levine, eds., Raven Press, New York, 1977, pp. 195-217.
- Mirkin, B.L. and Sinaiko, A.R.: Childhood hypertension: New therapeutic agents and management, In: Symposium on Clinical Pharmacology and Therapeutics: A Pediatric Perspective, Yearbook Medical Publishers, Chicago, 1978, pp. 251-272.
- Sinaiko, A.R.: Environmental contaminants in human breast milk: Potential effects on infant development, In: Infant Nutrition and Development of the Gastrointestinal Tract, Raven Press, New York, 1981.
- Sinaiko, A.R. and Mirkin, B.L.: Role of adrenergic nervous and renin angiotensin system in the development of genetic hypertension. In: Phasic Pressor Mechanisms: Hypertension in the Young and the Old, The VI Hahnemann International Symposium on Hypertensive Disease, Onesti, G., and Kim, E.D., (eds.), Grune and Stratton, New York, 1981.
- Mirkin, B.L. and Sinaiko, A.R.: Vasodilators: Combined drug regimen in severe and refractory hypertension. In: Phasic Pressor Mechanisms: Hypertension in the Young and the Old, The VI Hahnemann International Symposium on Hypertensive Disease, Onesti, G., and Kim, K.E., (eds.), Grune and Stratton, New York, 1981.
- Sinaiko, A.R., and Green, T.P.: Principles of drug therapy in end-stage renal disease. In: End-Stage Renal Disease in Children, R. Fine and A. Gruskin, eds., W. B. Saunders, 1984.
- Adelman, R. D. and Sinaiko, A. R.: Drugs and the kidney. In: Pediatric Nephrology, Second Edition, eds., M. Holliday, M. Barratt and R. Vernier, 1987.
- Rosen, W. and Sinaiko, A.R.: Environmental contaminants in breast milk. In: Textbook of Gastroenterology and Nutrition in Infancy, Second Edition, E. Lebenthal, ed., Raven Press, New York, N.Y., 1989
- Sinaiko, A.R. and Wells, T.G.: Childhood Hypertension. In: Hypertension: Pathophysiology, Diagnosis and Management, Laragh, J.H. and Brenner, B.M., eds., Raven Press, New York, N.Y., 1989.

- Falkner, B., Loggie, J. and Sinaiko, A.R.: Hypertension in Children. Audio, American Academy of Pediatrics, 1990.
- Sinaiko, A.R. and O'Dea, R.F.: Use of drugs in renal insufficiency. In: Pediatric Kidney Disease, Second Edition, Edelman, C.M., Bernstein, J., Meadow, S.R., Spitzer A. and Travis, L., eds., Little Brown and Co., 1992.
- Sinaiko, A. R.: Drugs affecting the adrenergic nervous system. In: Pediatric Hypertension, J. Loggie, ed., Blackwell Scientific Pub. Inc., Boston, MA, 1992.
- Sinaiko, A.R.: General Approaches to the Management of Hypertension. In: Pediatric Hypertension, J. Loggie, ed., Blackwell Scientific Pub. Inc., Boston, MA, 1992.
- Sinaiko, A.R.: Antihypertensive Therapy. In: Pediatric Pharmacology, S.J. Yaffe and J. Aranda, eds., W.B. Saunders Co., Philadelphia, PA, 1992.
- Horan, M.J., Sinaiko, A.R.: Blood Pressure in Children. In: Hypertension Primer, Izzo, J.L., Black, H.R., eds, American Heart Association, Dallas, TX, pp 195-197, 1993.
- Sharma A. and Sinaiko A.R.: Systemic Hypertension. In: Heart Disease in Infants, Children and Adolescents, Emmanouilides G.C., Riemenschneider T.A., Allen H.D. and Gutgesell H.P., eds, Williams and Wilkins, 1994.
- Prineas R.J. and Sinaiko A.R.: Hypertension in Children. In: Textbook of Hypertension, Swales J.D., ed, Blackwell Scientific Publications, Oxford, 1994.
- Sinaiko A.R.: Childhood Hypertension. In: Hypertension: Pathophysiology, Diagnosis and Management, Second Edition, Laragh J.H. and Brenner B.M., eds, Raven Press, New York, N.Y, 1994.
- Sinaiko, A.R.: Blood Pressure in Children. In: Hypertension Primer, Second Edition, Izzo, J.L. and Black, H.R., eds, Council for High Blood Pressure Research, American Heart Association, pp 233-235, 1999.
- Sinaiko, A.R.: Blood Pressure in Children. In: Hypertension Primer, Third Edition, Izzo, J.L. and Black, H.R., eds, Council for High Blood Pressure Research, American Heart Association, 2002.

Abstracts

- Formanek, G., Sinaiko, A., Mirkin, B.L. and Amplatz, K.: Routine renin determination in renovascular hypertension. Presentation Radiological Society of North America, Chicago, IL, November 25-30, 1973.
- Sinaiko, A.R., Mirkin, B.L. and Vernier, R.L.: Hypertension and unilateral parenchymal renal disease, *Ped. Res.* 8:187, 1974.
- Sinaiko, A. and Mirkin, B.L.: Clinical management of hypertension with minoxidil: A controlled trial in children, *Ped. Res.* 10:335, 1976.
- Sinaiko, A.R. and Mirkin, B.L.: Beta-adrenergic agonist induced renin secretion from the perfused kidney: Comparative reactivity of spontaneously hypertensive and Wistar Kyoto rats, *Fed. Proc.* 36:1015, 1977.
- Mirkin, B.L., Sinaiko, A.R., Cooper, M.J. and Anders, M.W.: Hydrochlorothiazide therapy in hypertensive and renal insufficient children: Elimination kinetics and metabolic effects, *Ped. Res.* 11:418, 1977.
- Sinaiko, A.R. and Mirkin, B.L.: Effect of chemical sympathectomy on hydralazine-induced renin release in spontaneously hypertensive and normotensive Wistar rats, *Fed. Proc.* 37:550, 1978.
- Gillum, R.F., Sinaiko, A.R., Lipchik, R.J., Becerra, J.M. and Prineas, R.J.: Physiologic correlates of childhood hypertension. Conference on Cardiovascular Disease Epidemiology, American Heart Association, March, 1980.
- Sinaiko, A.R., Gillum, R.F. and Prineas, R.J.: Renin-angiotensin and sympathetic nervous system activity in grade-school children from the upper 0.26% and lower 5% of normal blood pressure distribution. *Ped. Res.* 14:626, 1980.
- Sinaiko, A.R. and Green, T.P.: Urinary prostaglandin excretion may not reflect endogenous renal PGE synthesis. *Ped. Res.* 17:, 1983.
- Sinaiko, A.R. and Green, T.P.: Influence of essential fatty acid deficiency on response of the prostaglandin (PG) system to high and low sodium diets. *Fed. Proc.* 43:367, 1984.
- Sinaiko, A. R.: Prostaglandin E (PGE) synthesis in renal papillae of Dahl salt-sensitive (S) and salt-resistant (R) rats: Stimulus and diet specific effects. *Am. Soc. Nephrology*, 1985.
- Sinaiko, A. R., Marz, W., Cornelissen, G. and Halberg, F.: Pediatric monitoring of systolic and diastolic blood pressure in health and kidney disease. *Int. Soc. for Chronobiology*, 1985.
- Marz, W., Warwick, W. J., Cornelissen, G., Sinaiko, A. and Halberg, F.: Systolic and diastolic blood pressure and heart rate in cystic fibrosis. *Int. Soc. for Chronobiology*, 1985.

- O'Dea, R. F., Mirkin, B. L., Alward, C. T. and Sinaiko, A. R.: Enhanced sensitivity of newborns to captopril. *Ped. Res.* 20:207A, 1986.
- Sinaiko, A., Bass, J., Gomez-Marin, O. and Prineas, R. J.: Cardiac status of adolescents tracking with high (HBP) and low (LBP) blood pressure since early childhood. *Am. Soc. of Hypertension*, 1986.
- Munger, R, Gomez-Marin, O, Prineas, R. and Sinaiko, A.: Elevated blood pressure among Southeast Asian refugee children in the U.S. *Am. Heart Assn. Conference on Cardiovascular Disease Epidemiology*, March, 1987.
- Wells, T.G. and Sinaiko, A.R.: Nitrendipine treatment of hypertension: Acute and long-term effects. *Soc. Ped. Res.*, 1987.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Prevalence of "significant" hypertension in pre-high school children 10-14 years of age. *Am. Soc. Hypertension*, 1987.
- Munger, R., Gomez-Marin, O, Prineas, R. and Sinaiko, A.: Adjusted blood pressure levels for white, black and Southeast Asian children in the U.S. *Soc. Epidemiol. Res.*, April, 1987.
- Wells, T.G. and Sinaiko, A.R.: Developmental effect of chemical sympathectomy on blood pressure (BP), glomerular structure, and urinary protein excretion in weanling Dahl salt-sensitive (DS) and salt-resistant (DR) rats. *FASEB*, April, 1988.
- Sinaiko, A.R. and Wells, T.G.: Influence of sympathetic nervous system (SNS) on (Na⁺/K⁺) ATPase activity in the Dahl rat. *Am. Soc. Hypertension*, 1988.
- Munger, R, Gomez-Marin, O, Prineas, R. and Sinaiko, A.: Elevated blood pressure among Southeast Asian refugee children in Minneapolis-St. Paul. *Soc. Ped. Epidem. Res.*, 1988.
- Sinaiko, A.R.: Difference in renal papillary prostaglandin E synthesis between Dahl sodium sensitive and resistant rats is stimulus dependent. *Council for High Blood Pressure Research, American Heart Association*, 1988.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Diastolic fourth (D4) and fifth (D5) phase blood pressure in 10-15 year old children. *Soc. Ped. Res.*, 1989.
- Wells, T.G. and Sinaiko, A.R.: Antihypertensive efficacy and pharmacokinetics of nitrendipine in children. *Int. Soc. Nephrol.*, 1989.
- Sinaiko, A.R., O'Dea, R.F., Gomez-Marin, O. and Prineas, R.J.: Correlation of endogenous digitalis-like factor (EDLF) between adolescents and their parents. *Am. Soc. Hypertension*, 1990.

- Georgieff, M.K., Mills, M.M. and Sinaiko, A.R.: Systolic (sBP) and diastolic (dBP) blood pressure patterns following newborn intensive care. Soc. Ped. Res., 1990.
- Sinaiko, A.R., Smith, C.C., Gomez-Marin, O. and Prineas, R.J.: Differences in calcium (Ca) and magnesium (Mg) among 11-14 year old children with high normal (HBP) and low normal (LBP) blood pressure. Am. Soc. Hypertension, 1991.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Effect of 2-year supplementation with potassium (K) on rate of rise of systolic blood pressure (SBP) in 10-14 year old boys (B) and girls (G). Soc. Ped. Res., 1991.
- Gomez-Marin, O., Prineas, R.J., and Sinaiko, A.R.: Blood pressure (BP) levels of children selected on the basis of high or low BP predict their mothers' levels. Soc. Ped. Epidem. Res., 1991.
- Sinaiko, A.R., Prineas, R.J. and Gomez-Marin, O.: Association of insulin with blood pressure in normal adolescents. AHA Council for High Blood Pressure Research, 1991.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Cholesterol tracking and blood pressure in normal adolescents. AHA Scientific Session, 1991.
- Sinaiko, A.R., Prineas, R.J. and Gomez-Marin, O.: Effect of 2-year dietary sodium restriction and potassium supplementation on rate of rise of blood pressure in adolescents. AHA Scientific Session, 1991.
- Perez, R., McHugh, L., Frama, P., Sinaiko, A., Frey, D. and Matas, A.: Management of hypertension in renal transplantation. Am. Soc. Nephrol., 1991.
- Sinaiko, A.R., Prineas, R.J. and Gomez-Marin, O.: Tracking of plasma cholesterol during adolescence may be useful for identifying at risk individuals. Soc. Ped. Res., 1992.
- Sinaiko, A.R., Gomez-Marin, O. and Prineas, R.J.: Effect of four-year low-sodium diet (Na) or potassium supplement (KCl) on rate of rise (slope) of systolic blood pressure (SBP) in adolescent boys (B) and girls (G). AHA Council for High Blood Pressure Research, 1992.
- Steinberger, J., Bass, J.L., Berry J.M., Gomez-Marin, O., Rocchini, A.P., Sinaiko A.R.: Obesity and female sex influence left ventricular size in children with high normal blood pressure. AHA Scientific Session, 1993.
- Sinaiko, A.R., Gomez-Marin, O., Prineas, R.J.: Tracking of cholesterol and HDL-C in adolescents with high normal blood pressure. AHA Scientific Session, 1993.
- Prineas, R., Donahue, R., Sinaiko, A., Gomez-Marin, O., Hong, C.P.: Fasting serum insulin (FSI) differences among slim and obese trackers: The Minneapolis Children's Blood Pressure Study. Soc. Epidem. Res., 1994.

- Steinberger, J., Donahue, R.P., Rocchini, A.P., Bass, J.L., Berry, J.M., Lange, T.H., Gomez, O., Prineas, R.J., Sinaiko, A.R.: Female sex influences left ventricular mass in young adults with high normal blood pressure. AHA Scientific Session, 1994.
- Donahue, R.P., Prineas, R.J., Donahue, R.D., Gomez, O., Sinaiko, A.R.: Insulin resistance among young adults with persistently elevated blood pressure: The Minneapolis Children's Blood Pressure Study. AHA Scientific Session, 1994.
- Steinberger, J., Donahue, R.P., Rocchini, A.P., Bass, J.L., Berry, J.M., Lange, T.H., Gomez, O., Prineas, R.J., Sinaiko, A.R.: Female sex is a risk factor for left ventricular hypertrophy in young adults with persistent high normal blood pressure. AHA Scientific Session, 1995.
- McVeigh, G.E., Donahue, R.P., Prineas, R.J., Cohn, J.N., Finklestein, S.M., Lemay, L., Morgan, D., Gomez-Marin, O., Sinaiko, A.R.: Young adults with persistent high-normal blood pressure have decreased arterial compliance. AHA Scientific Session, 1995.
- McVeigh, G.E., Donahue, R.P., Prineas, R.J., Cohn, J.N., Finklestein, S.M., Lemay, L., Morgan, D., Gomez-Marin, O., Sinaiko, A.R.: Relation of arterial compliance to blood pressure in young adults. AHA Scientific Session, 1995.
- Vats, A.N., Sinaiko, A.R., Fish, A.J.: Parathyroid hormone and urinary prostaglandin as markers for response to thiazide therapy in children with idiopathic hypercalciuria. Am. Soc. Neph., 1995.
- Sinaiko, A.R., Gomez-Marin, O., Prineas, R.J.: Fasting insulin, lipids, and BP in adolescents and their parents. AHA Council for High Blood Pressure Research, 1996.
- Steinberger, J., Prineas, R.J., Moran, A., Sinaiko, A.R.: Adiposity in childhood predicts adiposity, insulin resistance, and abnormal lipids in young adulthood. AHA Scientific Session, 1996.
- Sinaiko, A.R., Donahue, R.P., Prineas, R.J.: Rate of increase in obesity during childhood and adolescence predicts cardiovascular risk factors in young adults. AHA Scientific Session, 1996.
- Donahue, R.P., Sinaiko, A.R., Gomez-Marin, O.W., Prineas, R.J.: Hyperinsulinemia and persistently elevated blood pressure: The Minneapolis Children's Study. International Conference on Preventive Cardiology, 1997.
- Farney, A.C., Jain, S.G., Sinaiko, A.R., Najarian, J.S.: Renal autotransplantation for renovascular hypertension in children. American Surgical Association, 1997.
- Sinaiko, A.R., Jacobs, D.R., Moran, A., Steinberger, J., Prineas, R.J.: Association of systolic blood pressure (SBP) with insulin resistance and lipids in junior high children. Soc. Ped Res., 1997.

- Donahue, R.P., Sinaiko, A.R., Gomez-Marin, O., Prineas, R.J.: Hyperinsulinemia and persistently elevated blood pressure: The Minneapolis Children's Study. *Soc. Epidem. Res.*, 1997.
- Luepker, R., Prineas, R., Jacobs, D., Sinaiko, A.: Trends of blood pressure and body size in adolescents in a multiethnic population: 1986-1996. *Euro. Soc. Cardiology*, 1997.
- Moran, A., Steinberger, J., Jacobs, D., Prineas, R., Sinaiko, A.: Changes in insulin sensitivity associated with puberty. *Endo. Soc.*, 1997.
- Sinaiko, A.R., Jacobs, D., Moran, A., Steinberger, J., Luepker, R.V., Prineas, R.J.: Relation of insulin resistance to cardiovascular risk factors in normotensive 5th-8th grade students. AHA Council for High Blood Pressure Research, 1997.
- Steinberger, J., Moran, A., Rocchini, A.P., Jacobs, D.J., Prineas, R.J., Sinaiko, A.R.: Obesity is a strong predictor of increased left ventricular mass and insulin resistance in children. AHA Scientific Session, 1997.
- Chavers, B., Donahue, R., Prineas, R., Sinaiko, A.: Microalbuminuria (MA) is a marker for cardiovascular (CV) risk in young adults. *Am. Soc. Neph.*, 1997.
- Sinaiko, A.R., Steinberger, J., Moran, A., Luepker, R.V., Rocchini, A.P., Prineas, R.J., Jacobs, D.J.: Insulin resistance syndrome in children: Results from insulin clamp studies in 357 5th-8th grade students. AHA Scientific Session, 1998.
- Steinberger, J., Sinaiko, A.R.: Prevalence of Congenital Heart Disease in Healthy Adolescents. AHA Scientific Session, 1998.
- Sinaiko, A.R., Steinberger, J., Moran, A., Luepker, R.V., Prineas, R.J., Rocchini, A.P., Jacobs, D.R.: Comparison of insulin resistance, lipids, and body size between children with high and low blood pressure: Results from insulin clamp studies in 357 subjects. *Am Soc Hypertension*, 1999.
- Steinberger, J., Moran, A., Prineas, R.J., Jacobs, D.J., Rocchini, A.P., Sinaiko, A.R.: Relation of left ventricular mass to the insulin resistance syndrome in children. AHA Scientific Session, 1999.
- Sinaiko, A.R., Steinberger, J., Moran, A., Prineas, R.J., Luepker, R.V., Rocchini, A.P., Jacobs, D.R.: Tracking of insulin resistance syndrome during adolescence. AHA Scientific Session, 1999.
- Steinberger, J., Jacobs, D., Moran, A., Prineas, R., Sinaiko, A. Insulin resistance in thin and heavy children. AHA Conference on Cardiovascular Disease Epidemiology and Prevention, 2000.

- Schmitz, K., Hong, C-P., Jacobs, D., Steinberger, J., Moran A., Sinaiko, A.: Physical activity is associated with insulin resistance in children. AHA Conference on Cardiovascular Disease Epidemiology and Prevention, 2000.
- Donahue, R.P., Sinaiko, A.R., Prineas, R.J.: Early predictors of persistently elevated blood pressure in young adults: The Minneapolis children's study. AHA Conference on Cardiovascular Disease Epidemiology and Prevention, 2000.
- Drummond, K.N., Sinaiko, A.R.: Renal Structural and Functional Abnormalities Prior to Onset of Overt Diabetic Nephropathy (DN) in Type-1 Diabetes (T1-D). American Diabetes Association, 2000.
- Murtaugh, M.A., Jacobs, D.R., Schmitz, K.H., Moran, A., Steinberger, J., Sinaiko, A.R. Relation of insulin resistance and body size in adolescence to birthweight. 41st Conference on Cardiovascular Disease Epidemiology and Prevention, American Heart Association, 2001.
- Sinaiko A.R., Donahue R.P., Jacobs D.R. Jr., Prineas R.P.. Influence of parent blood pressure and BMI on development of offspring blood pressure and insulin resistance syndrome (IRS). American Society of Hypertension, 2001.
- Sinaiko AR, Steinberger J, Moran T, Prineas RP, Jacobs DR, Jr. Contrast between insulin sensitivity and fatness on cardiovascular risk factors in adolescents. American Heart Association, 2001.
- Steffen, L.M., Jacobs, D.R., Jr., Murtaugh, M.A., Moran, A.M., Hong, C-P, Steinberger, J, Sinaiko, A.R. Whole grain food intake is associated with lower body mass index and greater insulin sensitivity among adolescents. American Heart Association, 2001.
- Sinaiko, A.R., Jacobs, D.R., Jr., Steinberger, J., Moran, A. Prineas, R.J.. Insulin resistance predicts changes in blood pressure and other risk factors during adolescence. High Blood Pressure Research Council, 2001.
- Steinberger, J., Jacobs, D.R., Jr., Moran, A., Steffen, L., Hong, C-P., Sinaiko, A.R.. Relation of leptin to the insulin resistance syndrome in children. American Heart Association, 2002.
- Mauer M, Sinaiko A, Strand T, Zinman B, Donnelly S, Drummond K, Gardiner R, Kramer M, Suissa S. Effects of renin angiotensin system (RAS) blockade on the early lesions of diabetic nephropathy (DN): Study design and baseline results. American Diabetes Association, 2002.
- Mauer M, Sinaiko A, Strand T, Zinman B, Donnelly S, Drummond K, Gardiner B, Kramer M, Suissa S. Effects of renin angiotensin system (RAS) blockade on the early lesion of diabetic nephropathy (DN): Study design and baseline results. European Diabetic Nephropathy Study Group, 2002.

Steinberger J, Steffen L, Jacobs DR, Moran A, Hong C-P, Sinaiko AR. Leptin and the insulin resistance syndrome in thin and heavy children. American Heart Association Scientific Sessions, 2002.

Pankow J, Jacobs D, Steinberger J, Moran A, Sinaiko AR. Insulin resistance and CVD risk factors in children of parents with insulin resistance syndrome, 43rd Annual Conference on Cardiovascular Disease Epidemiology and Prevention and the Council on Nutrition, Physical Activity and Metabolism, Miami, Florida, March 5-8, 2003

Steinberger J, Jacobs DR, Moran A, Sinaiko AR. Relation of adolescent adiposity and insulin to insulin resistance syndrome in young adults. American Heart Association Scientific Sessions, 2003.