



Nicole S. Glaser, M.D.

Philosophy of Care

I believe that healthcare is a partnership among the care team, the patient and his or her family. Healthcare decisions should be made jointly after detailed discussions of risks and benefits of treatment decisions.

I do my best to insure that patients and their families have a thorough understanding of the physiological alterations underlying their illnesses such that they can make properly informed decisions.

In our clinic, many of our patients start their care with us as infants and stay with us for 10 - 15 years or more. By the time they "graduate" from our clinic as young adults, they are like family to us. Creating a safe, nurturing medical home for families of children with chronic illnesses is one of our most important jobs as healthcare professionals.

Clinical Interests

Dr. Glaser's main clinical interest is type 1 diabetes in children. She also cares for children with type 2 diabetes as well as children with other endocrine disorders including thyroid conditions, adrenal gland conditions and disorders of growth and puberty.

Research/Academic Interests

Dr. Glaser's main research interest is type 1 diabetes in children. Much of her research focuses on diabetic ketoacidosis, a potentially life-threatening complication of type 1 diabetes. She also has conducted research into methods of optimizing other aspects of type 1 diabetes care.

Title Professor

Specialty Pediatrics, Pediatric Endocrinology

Department [Pediatrics](#)

Division Pediatric Endocrinology

Center/Program Affiliation [UC Davis Children's Hospital](#)

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Languages German, Spanish

Education M.D., Harvard Medical School, Boston MA 1990



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B.A., Swarthmore College, Swarthmore PA 1986

Internships Pediatrics, Children's Hospital, Boston MA 1990-1991

Residency Pediatrics, Children's Hospital, Boston MA 1991-1993

Fellowships Pediatric Endocrinology, UC Davis Medical Center, Sacramento CA 1995-1997
Pediatric Endocrinology, University of San Diego Medical Center, San Diego CA 1994-1995

Board Certifications American Board of Pediatrics, 1994
American Board of Pediatrics, Pediatric Endocrinology, 2016

Professional Memberships American Academy of Pediatrics
American Diabetes Association
Pediatric Endocrine Society
Society for Pediatric Research
Western Society for Pediatric Research

Honors and Awards University of California Davis School of Medicine Dean's Award for Excellence in Research, 2013
Dean's Professorship in Childhood Diabetes Research, 2011
Outstanding Teaching Award, Department of Pediatrics, University of California, Davis, 2000
The Role Model Award, Department of Pediatrics, University of California, Davis, 1999
Outstanding Fellow Teacher Award, Department of Pediatrics, University of California, San Diego, 1995

Select Recent Publications Lo W, O'Donnell M, Tancredi D, Orgain M, Glaser N. Diabetic ketoacidosis in juvenile rats is associated with reactive gliosis and activation of microglia in the hippocampus. *Pediatr Diabetes*. (epub 2015 Jan 16).

Glaser NS, Ghetti S, Casper TC, Dean JM, Kuppermann N; for the Pediatric Emergency Care Applied Research Network (PECARN). Pediatric Diabetic Ketoacidosis, Fluid Therapy, and Cerebral Injury: the Design of a Factorial Randomized Controlled Trial. *Pediatr Diabetes*. 2013.

Glaser NS, Tancredi DJ, Marcin JP, Caltagirone R, Lee Y, Murphy C, Kuppermann N. Cerebral Hyperemia Measured with Near Infrared Spectroscopy during Treatment of Diabetic Ketoacidosis in Children. *J Pediatr*. 2013; Jul(18): 1 - 6.



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Glaser N, Ngo C, Anderson S, Yuen N, Trifu A, O'Donnell M. Effects of Hyperglycemia and Effects of Ketosis on Cerebral Perfusion, Cerebral Water Distribution, and Cerebral Metabolism. *Diabetes*. 2012;61(7): 1831-7.

Yuen N, Anderson SE, Glaser N, Tancredi DJ, O'Donnell ME. Cerebral blood flow and cerebral edema in rats with diabetic ketoacidosis. *Diabetes*. 2008;57(10): 2588-94.

Glaser NS, Gorges S, Marcin JP, Buonocore M, DiCarlo J, Neely EK, Barnes P, Bottomly J, Kuppermann N. Mechanism of Cerebral Edema in Children with Diabetic Ketoacidosis. *J of Pediatr*. 2004;145: 164-71.

Glaser NS, Barnett P., McCaslin I., Nelson D., Trainor J., Louie J., Kaufman F., Qualyle F., Roback M., Malley R., Kupperman N. Risk Factors for Cerebral Edema in Children with Diabetic Ketoacidosis. *New England Journal of Medicine*. 2001;344(4): 264-269.

Glaser NS, Wootton-Gorges SL, Buonocore MH, Tancredi DJ, Marcin JP, Caltagirone R, Lee Y, Murphy C, Kuppermann N. Subclinical cerebral edema in children with diabetic ketoacidosis randomized to 2 different rehydration protocols. *Pediatrics*. 2013 Jan;131(1):e73-80.

Glaser N, Yuen N, Anderson SE, Tancredi DJ, O'Donnell ME. Cerebral metabolic alterations in rats with diabetic ketoacidosis: effects of treatment with insulin and intravenous fluids and effects of bumetanide. *Diabetes*. 2010 Mar;59(3):702-9.

Ghetti S, Lee JK, Sims CE, Demaster DM, Glaser NS. Diabetic ketoacidosis and memory dysfunction in children with type 1 diabetes. *J Pediatr*. 2010 Jan;156(1):109-14.

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