



## Nicole Glaser, M.D.

### Philosophy of Care

My care philosophy is that healthcare should be a partnership between children/families and physicians. Medical care is not "one size fits all" and treatments that are a good choice for one person may not work as well for someone else. Families need to understand the benefits and risks of different clinical care options and make informed choices. It is the job of the physician to help families navigate these decisions by providing information in a clear and comprehensive way and serving as a resource to talk through these decisions.

### Clinical Interests

Dr. Glaser is a Pediatric Endocrinologist who cares for children with diabetes, thyroid disorders, disorders of growth and puberty, and other hormonal disorders. She has a particular research interest in type 1 diabetes and diabetic ketoacidosis.

### Research/Academic Interests

Dr. Glaser holds the Dean's Endowed Professorship for Childhood Diabetes Research. She is recognized as an international expert in pediatric diabetic ketoacidosis (DKA), an important complication of diabetes in children. She has led many of the key multi-center studies that guide DKA management. She has also been involved in the development of several national and international guidelines for DKA management in children that guide current practice worldwide.

**Title** Dean's Endowed Professorship for Childhood Diabetes Research  
Professor, Department of Pediatrics

**Specialty** Pediatric Endocrinology

**Department** [Pediatrics](#)

**Division** Pediatric Endocrinology and Diabetes

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

**Address/Phone** Glassrock Building, Pediatric Specialty Clinics, 2521 Stockton Blvd. Suite 3200 Sacramento, CA 95817  
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**Languages** Spanish

**Education** M.D., Harvard Medical School, Boston MA 1990  
B.A., Biology, Swarthmore College, Swarthmore PA 1986

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



## Nicole Glaser, M.D.

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

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

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

**Professional Memberships** Academic Pediatric Association  
American Diabetes Association  
Pediatric Endocrine Society  
Society for Pediatric Research

**Honors and Awards** Golden Apple Teaching Award, UC Davis Pediatric Residency, 2021, 2022  
Outstanding Teaching Award, Department of Pediatrics, UC Davis, 2020  
Alpha Omega Alpha Honor Medical Society, 2019  
UC Davis Dean's Award for Excellence in Research, 2013  
Aesculapian Club Honor Society, Harvard Medical School, Boston, 1990

**Select Recent Publications** Huang JX, Casper TC, Pitts C, Myers S, Loomba L, Ramesh J, Kuppermann N, Glaser N.  
Association of Acute Kidney Injury During Diabetic Ketoacidosis With Risk of Microalbuminuria in  
Children With Type 1 Diabetes. JAMA Pediatr. 2022 Feb 1;176(2):169-175. doi:10.1001/  
jamapediatrics.2021.5038. PMID:34842908.

Rewers A, Kuppermann N, Stoner MJ, Garro A, Bennett JE, Quayle KS, Schunk JE, Myers SR,  
McManemy JK, Nigrovic LE, Trainor JL, Tzimenatos L, Kwok MY, Brown KM, Olsen CS, Casper  
TC, Ghetti S, Glaser NS; Pediatric Emergency Care Applied Research Network (PECARN) FLUID  
Study Group. Effects of Fluid Rehydration Strategy on Correction of Acidosis and Electrolyte  
Abnormalities in Children With Diabetic Ketoacidosis. Diabetes Care. 2021 Sep;44(9):2061-2068.  
doi:10.2337/dc20-3113. Epub 2021 Jun 29. PMID:34187840.

Glaser NS, Stoner MJ, Garro A, Baird S, Myers SR, Rewers A, Brown KM, Trainor JL, Quayle KS,  
McManemy JK, DePiero AD, Nigrovic LE, Tzimenatos L, Schunk JE, Olsen CS, Casper TC, Ghetti  
S, Kuppermann N; Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID  
Study Group. Serum Sodium Concentration and Mental Status in Children With Diabetic  
Ketoacidosis. Pediatrics. 2021 Sep;148(3):e2021050243. doi:10.1542/peds.2021-050243. Epub



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2021 Aug 9. PMID:34373322.

Myers SR, Glaser NS, Trainor JL, Nigrovic LE, Garro A, Tzimenatos L, Quayle KS, Kwok MY, Rewers A, Stoner MJ, Schunk JE, McManemy JK, Brown KM, DePiero AD, Olsen CS, Casper TC, Ghetti S, Kuppermann N; Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID Study Group. Frequency and Risk Factors of Acute Kidney Injury During Diabetic Ketoacidosis in Children and Association With Neurocognitive Outcomes. *JAMA Netw Open*. 2020 Dec 1;3(12):e2025481. doi:10.1001/jamanetworkopen.2020.25481. PMID:33275152.

Ghetti S, Kuppermann N, Rewers A, Myers SR, Schunk JE, Stoner MJ, Garro A, Quayle KS, Brown KM, Trainor JL, Tzimenatos L, DePiero AD, McManemy JK, Nigrovic LE, Kwok MY, Perry CS 3rd, Olsen CS, Casper TC, Glaser NS; Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID Study Group. Cognitive Function Following Diabetic Ketoacidosis in Children With New-Onset or Previously Diagnosed Type 1 Diabetes. *Diabetes Care*. 2020 Nov;43(11):2768-2775. doi:10.2337/dc20-0187. Epub 2020 Sep 22. PMID:32962981.

Kuppermann N, Ghetti S, Schunk J, Stoner J, Rewers A, McManemy J, Myers S, Nigrovic L, Garro A, Brown K, Quayle K, Trainor J, Tzimenatos L, Bennett J, DePiero A, Kwok M, Perry C, Olsen C, Casper TC, Dean JM & Glaser N for the Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID Study Group. Clinical Trial of Fluid Infusion Rates for Pediatric Diabetic Ketoacidosis. *New England J Med*. 2018 Jun 14;378:2275-87. doi:10.1056/NEJMoa1716816.

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*. 2016 Mar;17(2):127-39. doi:10.1111/pedi.12251. Epub 2015 Jan 16. PMID:25594864.

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 Oct;163(4):1111-6. doi:10.1016/j.jpeds.2013.06.008. Epub 2013 Jul 18.



## Nicole Glaser, M.D.

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Glaser NS, Ghetti S, Casper TC, Dean JM, Kuppermann N; Pediatric Emergency Care Applied Research Network (PECARN) DKA FLUID Study Group. Pediatric diabetic ketoacidosis, fluid therapy, and cerebral injury: the design of a factorial randomized controlled trial. *Pediatr Diabetes*. 2013 Sep;14(6):435-46. doi:10.1111/pedi.12027. Epub 2013 Mar 13. PMID:23490311.

Glaser N, Barnett P, McCaslin I, Nelson D, Trainor J, Louie J, Kaufman F, Quayle K, Roback M, Malley R, Kuppermann N; Pediatric Emergency Medicine Collaborative Research Committee of the American Academy of Pediatrics. Risk factors for cerebral edema in children with diabetic ketoacidosis. The Pediatric Emergency Medicine Collaborative Research Committee of the American Academy of Pediatrics. *N Engl J Med*. 2001 Jan 25;344(4):264-9. doi:10.1056/NEJM200101253440404. PMID:11172153.

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