

# Stanford

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## Rayhan A. Lal, MD

Assistant Professor of Medicine (Endocrinology) and of Pediatrics (Endocrinology)  
Medicine - Endocrinology, Gerontology, & Metabolism

### CLINICAL OFFICE (PRIMARY)

- **Endocrinology Academic Office**

300 Pasteur Dr Rm S025

MC 5103

Stanford, CA 94305

**Tel** (650) 725-2908

**Fax** (650) 498-5823

### Bio

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#### BIO

I grew up in the east bay area and have had type 1 diabetes for 30+ years. I studied electrical engineering and computer science at U.C. Berkeley (Go Bears!) with the hope of applying my knowledge to diabetes technology. The significance of clinical practice became clear to me after my siblings also developed diabetes. I am devoting my life to advancing the care of diabetes in people of all ages.

#### CLINICAL FOCUS

- Endocrinology
- Diabetes and Metabolism

#### ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Medicine - Endocrinology, Gerontology, & Metabolism
- Assistant Professor - University Medical Line, Pediatrics - Endocrinology and Diabetes
- Member, Wu Tsai Human Performance Alliance

#### ADMINISTRATIVE APPOINTMENTS

- Member, Stanford Diabetes Research Center, (2020- present)

#### HONORS AND AWARDS

- Stephen Bechtel Endowed Fellow, Stanford Maternal and Child Health Research Institute (2017-2019)
- Alpha Omega Alpha, National medical honor society (2017)
- Outstanding Teaching as a House Officer, University of Southern California (2014)
- Gold Humanism Honor Society, Gold Foundation (2011)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Consultant, Abbott Diabetes Care (2018 - present)

- Medical Advisory Board, Consultant, Tidepool (2018 - present)
- Medical Advisor, Biolinq (2019 - present)
- Medical Monitor, Capillary Biomedical (2020 - present)
- Advisory Board, Provention Bio (2021 - 2021)
- Medical Advisor, Gluroo (2021 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Pediatric Endocrinology, American Board of Pediatrics (2019)
- Board Certification: Endocrinology, Diabetes and Metabolism, American Board of Internal Medicine (2018)
- Fellowship: Stanford University Endocrinology Fellowship (2019) CA
- Fellowship: Stanford University Pediatric Endocrinology Fellowship (2019) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2015)
- Board Certification: Pediatrics, American Board of Pediatrics (2015)
- Residency, Chief Residency, LAC+USC , Internal Medicine & Pediatrics (2015)
- Medical Education: University of California Davis School of Medicine (2011) CA

## Research & Scholarship

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### CLINICAL TRIALS

- Investigational Extended Wear Insulin Infusion Set in People With Type 1 Diabetes, Recruiting
- Safety Evaluation of an Advanced Hybrid Closed Loop System Using Lyumjev With the Tandem t:Slam X2 Insulin Pump With Control-IQ Technology in Adults, Adolescents and Children With Type 1 Diabetes, Recruiting
- Evaluating the Benefits of Physiologic Insulin Delivery, Not Recruiting
- Evaluation of Extended Wear Infusion Set With 670G Hybrid Closed-Loop Therapy, Not Recruiting
- Evaluation of the Advanced Hybrid Closed Loop (AHCL) System in Type 1 Adults and Pediatrics Utilizing Lyumjev®, Not Recruiting
- Safety and Effectiveness of the MiniMed™ 780G System With DS5 CGM, Not Recruiting

## Teaching

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### COURSES

2021-22

- Peds Endo Journal Club Course: BIOS 260 (Aut)

## Publications

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### PUBLICATIONS

- **COVID-19 impacts and inequities among underserved communities with diabetes.** *Journal of clinical & translational endocrinology*  
Maizel, J. L., Haller, M. J., Maahs, D. M., Addala, A., Lal, R. A., Filipp, S. L., Gurka, M. J., Westen, S., Dixon, B. N., Figg, L., Hechavarria, M., Malden, K. G., Walker, et al  
2024; 36: 100337
- **Insulin Delivery Hardware: Pumps and Pens.** *Diabetes technology & therapeutics*  
Lal, R., Leelarathna, L.  
2024; 26 (S1): S32-S44
- **A cysteine-specific solubilizing tag strategy enables efficient chemical protein synthesis of difficult targets.** *Chemical science*  
Li, W., Jacobsen, M. T., Park, C., Jung, J. U., Lin, N. P., Huang, P. S., Lal, R. A., Chou, D. H.

2024; 15 (9): 3214-3222

- **Use of the Community-Derived Open-Source Automated Insulin Delivery Loop System in Type 2 Diabetes.** *Diabetes technology & therapeutics*  
Bauza, C., Kanapka, L. G., Greene, E., Lal, R. A., Arbiter, B., Beck, R. W.  
2024
- **A cysteine-specific solubilizing tag strategy enables efficient chemical protein synthesis of difficult targets** *CHEMICAL SCIENCE*  
Li, W., Jacobsen, M. T., Park, C., Jung, J., Lin, N., Huang, P., Lal, R. A., Chou, D.  
2024
- **Following in Banting's footsteps or straying from the path? Observations from contemporary diabetes innovation.** *Frontiers in endocrinology*  
Leadley, C., Addala, A., Berkeley, J., Crockett, H., Davis, E. A., Hewapathirana, N., Hussain, S., Lal, R., Lomax, K., Wilkinson, T., de Bock, M., Burckhardt, M. A.  
2023; 14: 1270517
- **Breaking a feedback loop: A reassessment of an investigator initiated OS-AID study.** *Diabetes, obesity & metabolism*  
Braune, K., Hussain, S., Lal, R., Leibrand, S., Lewis, D. M., O'Donnell, S.  
2023
- **Recruiting historically under-represented individuals into Project ECHO Diabetes: using barrier analysis to understand disparities in clinical research in the USA.** *BMJ open*  
Addala, A., Hechavarria, M., Figg, L., Roque, X., Filipp, S. L., Anez-Zabala, C., Lal, R., Gurka, M. J., Haller, M. J., Maahs, D. M., Walker, A. F.  
2023; 13 (8): e072546
- **Automated Insulin Delivery with Remote Real-Time Continuous Glucose Monitoring for Hospitalized Patients with Diabetes: A Multi-Center, Single-arm, Feasibility Trial.** *Diabetes technology & therapeutics*  
Davis, G. M., Hughes, M. S., Brown, S., Sibayan, J., Perez-Guzman, M. C., Stumpf, M., Thompson, Z., Basina, M., Patel, R., Hester, J., Abraham, A., Ly, T. T., Chaney, et al  
2023
- **Multisite Quality Improvement Program Within the Project ECHO Diabetes Remote Network.** *Joint Commission journal on quality and patient safety*  
Wang, C. J., Lewit, E. M., Clark, C. L., Lee, F. W., Maahs, D. M., Haller, M. J., Addala, A., Lal, R. A., Cuttriss, N., Baer, L. G., Figg, L. E., Anez-Zabala, C., Sheehan, et al  
2023
- **The Promising Success of Project Extension for Community Healthcare Outcomes (ECHO) Diabetes: Case Series.** *JMIR diabetes*  
Figg, L., Addala, A., Jain, I., Anez, C., Midney, P., DeChirico, C., Symanski, C., Fitzgerald, B. C., Colbert, K., Raymer, T., Stockton-Joretteg, C., Murphy, E., Collins, et al  
2023; 8: e46050
- **Swimming With the Omnipod 5 Automated Insulin Delivery System: Connectivity in the Water.** *Diabetes care*  
Hughes, M. S., Kingman, R. S., Hsu, L., Lal, R. A., Buckingham, B. A., Zaharieva, D. P.  
2023
- **Spectro-spatial features in distributed human intracranial activity proactively encode peripheral metabolic activity.** *Nature communications*  
Huang, Y., Wang, J. B., Parker, J. J., Shivacharan, R., Lal, R. A., Halpern, C. H.  
2023; 14 (1): 2729
- **Practical Aspects and Exercise Safety Benefits of Automated Insulin Delivery Systems in Type 1 Diabetes.** *Diabetes spectrum : a publication of the American Diabetes Association*  
Zaharieva, D. P., Morrison, D., Paldus, B., Lal, R. A., Buckingham, B. A., O'Neal, D. N.  
2023; 36 (2): 127-136
- **The First Regulatory Clearance of an Open-Source Automated Insulin Delivery Algorithm.** *Journal of diabetes science and technology*  
Braune, K., Hussain, S., Lal, R.  
2023: 19322968231164166
- **Frequency and detection of insulin infusion site failure in the Type 1 Diabetes Exchange Online Community.** *Diabetes technology & therapeutics*  
Hughes, M. S., Douvas, J. L., Layfield-Bryan, M., Blanco, L. E., Gray, J. C., Zapotoczny, G., Espinoza, J., Wilcox, J. H., Lal, R. A.  
2023
- **Insulin Delivery Hardware: Pumps and Pens.** *Diabetes technology & therapeutics*

- Lal, R. A., Leelarathna, L.  
2023; 25 (S1): S30-S43
- **Diabetes Technology Meeting 2022.** *Journal of diabetes science and technology*  
Huang, J., Yeung, A. M., DuBord, A. Y., Wolpert, H., Jacobs, P. G., Lee, W. A., Drincic, A., Spanakis, E. K., Sherr, J. L., Prahalad, P., Fleming, A., Hsiao, V. C., Kompala, et al  
2023: 19322968221148743
  - **Project ECHO Diabetes Cost Modeling to Support the Replication and Expansion of Tele-mentoring Programs in Non-research Settings.** *Diabetes therapy : research, treatment and education of diabetes and related disorders*  
Lewit, E. M., Figg, L. E., Addala, A., Filipp, S. L., Lal, R., Gurka, M. J., Herndon, J. B., Haller, M. J., Maahs, D. M., Walker, A. F.  
2023
  - **Open-source automated insulin delivery in type 1 diabetes-the evidence is out there.** *The lancet. Diabetes & endocrinology*  
Hussain, S., Lal, R. A., Braune, K.  
2022
  - **Appropriate Use of Telehealth Visits in Endocrinology: Policy Perspective of the Endocrine Society.** *The Journal of clinical endocrinology and metabolism*  
Vimalananda, V. G., Brito, J. P., Eiland, L. A., Lal, R. A., Maraka, S., McDonnell, M. E., Narla, R. R., Roth, M. Y., Crossen, S. S.  
2022
  - **Multicenter, Randomized Trial of a Bionic Pancreas in Type 1 Diabetes.** *The New England journal of medicine*  
Russell, S. J., Beck, R. W., Damiano, E. R., El-Khatib, F. H., Ruedy, K. J., Balliro, C. A., Li, Z., Calhoun, P., Wadwa, R. P., Buckingham, B., Zhou, K., Daniels, M., Raskin, et al  
2022; 387 (13): 1161-1172
  - **Consensus Recommendations for the Use of Automated Insulin Delivery (AID) Technologies in Clinical Practice.** *Endocrine reviews*  
Phillip, M., Nimri, R., Bergenstal, R. M., Barnard-Kelly, K., Danne, T., Hovorka, R., Kovatchev, B. P., Messer, L. H., Parkin, C. G., Ambler-Osborn, L., Amiel, S. A., Bally, L., Beck, et al  
2022
  - **Temporal changes in hemoglobin A1c and diabetes technology use in DPV, NPDA and T1DX pediatric cohorts from 2010 to 2018.** *Diabetes technology & therapeutics*  
Lal, R. A., Robinson, H., Lanzinger, S., Miller, K., Perez, S. P., Kovacic, R., Calhoun, P., Campbell, F., Naeke, A., Maahs, D. M., Holl, R. W., Warner, J.  
2022
  - **Psychosocial Effects of the Loop Open-Source Automated Insulin Delivery System.** *Journal of diabetes science and technology*  
Wong, J. J., Hood, K. K., Hanes, S. J., Lal, R. A., Naranjo, D.  
2022: 19322968221105288
  - **Smartwatch Gesture-Based Meal Reminders Improve Glycemic Control.** *Diabetes, obesity & metabolism*  
Corbett, J. P., Hsu, L., Brown, S. A., Kollar, L., Vleugels, K., Buckingham, B., Breton, M. D., Lal, R. A.  
2022
  - **A Glycemia Risk Index (GRI) of Hypoglycemia and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings.** *Journal of diabetes science and technology*  
Klonoff, D. C., Wang, J., Rodbard, D., Kohn, M. A., Li, C., Liepmann, D., Kerr, D., Ahn, D., Peters, A. L., Umpierrez, G. E., Seley, J. J., Xu, N. Y., Nguyen, et al  
2022: 19322968221085273
  - **Insulin Delivery Hardware: Pumps and Pens.** *Diabetes technology & therapeutics*  
Lal, R., Leelarathna, L.  
2022; 24 (S1): S21-S34
  - **Current Status and Emerging Options for Automated Insulin Delivery Systems.** *Diabetes technology & therapeutics*  
Forlenza, G. P., Lal, R. A.  
1800
  - **Qualitative Study of User Experiences with Loop, an Open-Source Automated Insulin Delivery (AID) System.** *Diabetes technology & therapeutics*  
Suttiratana, S., Wong, J., Lanning, M. S., Dunlap, A. R., Hanes, S., Hood, K., Lal, R. A., Naranjo, D.  
1800

- **Using Peer Power to Reduce Health Disparities: Implementation of a Diabetes Support Coach Program in Federally Qualified Health Centers.** *Diabetes spectrum : a publication of the American Diabetes Association*  
Walker, A. F., Addala, A., Sheehan, E., Lal, R., Haller, M., Cuttriss, N., Filipp, S., Baer, L., Gurka, M., Bernier, A., Figg, L., Westen, S., Hood, et al  
2022; 35 (3): 295-303
- **Tele-education model for primary care providers to advance diabetes equity: Findings from Project ECHO Diabetes.** *Frontiers in endocrinology*  
Addala, A., Filipp, S. L., Figg, L. E., Anez-Zabala, C., Lal, R. A., Gurka, M. J., Haller, M. J., Maahs, D. M., Walker, A. F., Project ECHO Diabetes Research Team, Haller, M., Sheehan, E., Bernier, A., et al  
2022; 13: 1066521
- **Novel Pathogenic de novo INS p.T97P Variant Presenting with Severe Neonatal DKA.** *Endocrinology*  
Lal, R. A., Moeller, H. P., Thomson, E. A., Horton, T. M., Lee, S., Freeman, R., Prahalad, P., Poon, A. S., Annes, J. P.  
2021
- **Open-source automated insulin delivery: international consensus statement and practical guidance for health-care professionals.** *The lancet. Diabetes & endocrinology*  
Braune, K., Lal, R. A., Petruzelkova, L., Scheiner, G., Winterdijk, P., Schmidt, S., Raimond, L., Hood, K. K., Riddell, M. C., Skinner, T. C., Raile, K., Hussain, S., OPEN International Healthcare Professional Network and OPEN Legal Advisory Group  
2021
- **Automated Insulin Dosing Systems: Advances After a Century of Insulin.** *Diabetic medicine : a journal of the British Diabetic Association*  
Thabit, H., Lal, R., Leelarathna, L.  
2021: e14695
- **Ultra-Fast Insulin-Pramlintide Co-Formulation for Improved Glucose Management in Diabetic Rats.** *Advanced science (Weinheim, Baden-Wuerttemberg, Germany)*  
Maikawa, C. L., Chen, P. C., Vuong, E. T., Nguyen, L. T., Mann, J. L., d'Aquino, A. I., Lal, R. A., Maahs, D. M., Buckingham, B. A., Appel, E. A.  
2021: e2101575
- **Democratizing type 1 diabetes specialty care in the primary care setting to reduce health disparities: project extension for community healthcare outcomes (ECHO) T1D.** *BMJ open diabetes research & care*  
Walker, A. F., Cuttriss, N., Haller, M. J., Hood, K. K., Gurka, M. J., Filipp, S. L., Anez-Zabala, C., Yabut, K., Roque, X., Wong, J. J., Baer, L., Figg, L., Bernier, et al  
2021; 9 (1)
- **Insulin Delivery Hardware: Pumps and Pens.** *Diabetes technology & therapeutics*  
Lal, R. A., Leelarathna, L.  
2021; 23 (S2): S32-S45
- **Longevity of the Novel ConvaTec Infusion Set with Lantern Technology.** *Diabetes, obesity & metabolism*  
Lal, R. A., Hsu, L., Zhang, J., Schondorff, P. K., Heschel, M., Buckingham, B.  
2021
- **Full closed loop open-source algorithm performance comparison in pigs with diabetes.** *Clinical and translational medicine*  
Lal, R. A., Maikawa, C. L., Lewis, D., Baker, S. W., Smith, A. A., Roth, G. A., Gale, E. C., Stapleton, L. M., Mann, J. L., Yu, A. C., Correa, S., Grosskopf, A. K., Liong, et al  
2021; 11 (4): e387
- **Feasibility of Spotlight Consultations Tool in Routine Care: Real-World Evidence.** *Journal of diabetes science and technology*  
Barnard-Kelly, K., Kelly, R. C., Chernavvsky, D., Lal, R., Cohen, L., Ali, A.  
2021: 1932296821994088
- **Health-Related Quality of Life and Treatment Satisfaction in Parents and Children with Type 1 Diabetes Using Closed-Loop Control.** *Diabetes technology & therapeutics*  
Cobry, E., Kanapka, L., Cengiz, E., Carria, L., Ekhlaspour, L., Buckingham, B. A., Hood, K., Hsu, L. J., Messer, L., Schoelwer, M., Emory, E., Ruedy, K. J., Beck, et al  
2021
- **Predictors of Time-in-Range (70-180 mg/dL) Achieved Using a Closed-Loop Control System.** *Diabetes technology & therapeutics*  
Schoelwer, M. J., Kanapka, L. G., Wadwa, R. P., Breton, M. D., Ruedy, K. J., Ekhlaspour, L. n., Forlenza, G. P., Cobry, E. C., Messer, L. H., Cengiz, E. n., Jost, E. n., Carria, L. n., Emory, et al

2021

- **Discontinued Use of the Loop Insulin Dosing System: A Mixed-Methods Investigation.** *Diabetes technology & therapeutics*  
Wong, J., Suttiratana, S., Lal, R. A., Lum, J., Lanning, M. S., Dunlap, A., Arbiter, B., Hanes, S., Bailey, R., Hood, K., Naranjo, D.  
2021
- **Predicting Success with a First-Generation Hybrid Closed Loop Artificial Pancreas System among Children, Adolescents, and Young Adults with Type 1 Diabetes: a Model Development and Validation Study.** *Diabetes technology & therapeutics*  
Forlenza, G. P., Vigers, T., Berget, C., Messer, L., Lal, R. A., Basina, M., Maahs, D. M., Hood, K., Buckingham, B. A., Wilson, D. M., Wadwa, R. P., Driscoll, K. A., Pyle, et al  
2021
- **Engineering biopharmaceutical formulations to improve diabetes management.** *Science translational medicine*  
Maikawa, C. L., d'Aquino, A. I., Lal, R. A., Buckingham, B. A., Appel, E. A.  
2021; 13 (578)
- **A Real-World Prospective Study of the Safety and Effectiveness of the Loop Open Source Automated Insulin Delivery System.** *Diabetes technology & therapeutics*  
Lum, J., Bailey, R., Barnes-Lomen, V., Naranjo, D., Hood, K., Lal, R. A., Arbiter, B., Brown, A., DeSalvo, D. J., Pettus, J., Calhoun, P., Beck, R. W.  
2020
- **A Randomized Trial of Closed-Loop Control in Children with Type 1 Diabetes.** *The New England journal of medicine*  
Breton, M. D., Kanapka, L. G., Beck, R. W., Ekhlaspour, L., Forlenza, G. P., Cengiz, E., Schoelwer, M., Ruedy, K. J., Jost, E., Carria, L., Emory, E., Hsu, L. J., Oliveri, et al  
2020; 383 (9): 836–45
- **An Intolerable Burden: Suicide, Intended Self-Injury and Diabetes.** *Canadian journal of diabetes*  
Barnard-Kelly, K. D., Naranjo, D., Majidi, S., Akturk, H. K., Breton, M., Courtet, P., Olie, E., Lal, R. A., Johnson, N., Atkinson, M., Renard, E.  
2020
- **Insulin Pumps.** *Diabetes technology & therapeutics*  
Lal, R. n., Leelarathna, L. n.  
2020; 22 (S1): S17–S31
- **Primary Care Providers in California and Florida Report Low Confidence in Providing Type 1 Diabetes Care.** *Clinical diabetes : a publication of the American Diabetes Association*  
Lal, R. A., Cuttriss, N. n., Haller, M. J., Yabut, K. n., Anez-Zabala, C. n., Hood, K. K., Sheehan, E. n., Basina, M. n., Bernier, A. n., Baer, L. G., Filipp, S. L., Wang, C. J., Town, et al  
2020; 38 (2): 159–65
- **THE GUIDED TRANSFER OF CARE IMPROVES ADULT CLINIC SHOW RATE.** *Endocrine practice : official journal of the American College of Endocrinology and the American Association of Clinical Endocrinologists*  
Lal, R. A., Maahs, D. M., Dosiou, C. n., Aye, T. n., Basina, M. n.  
2020
- **Fast-Acting Insulin Aspart Use with the MiniMed™ 670G System.** *Diabetes technology & therapeutics*  
Hsu, L. J., Buckingham, B. A., Basina, M. n., Ekhlaspour, L. n., von Eyben, R. n., Wang, J. n., Lal, R. A.  
2020
- **Suicide and Self-inflicted Injury in Diabetes: A Balancing Act.** *Journal of diabetes science and technology*  
Barnard-Kelly, K. D., Naranjo, D., Majidi, S., Akturk, H. K., Breton, M., Courtet, P., Olie, E., Lal, R. A., Johnson, N., Renard, E.  
2019: 1932296819891136
- **Perspectives on long-acting growth hormone therapy in children and adults.** *Archives of endocrinology and metabolism*  
Lal, R. A., Hoffman, A. R.  
2019; 63 (6): 601–7
- **Fluoroscopic-assisted laparoscopic retrieval of retained glucose sensor wire from the omentum.** *Clinical case reports*  
Sang, A. X., Lal, R., August, A., Danzer, E., Buckingham, B., Mueller, C. M.  
2019; 7 (9): 1717-1720

- **Fluoroscopic-assisted laparoscopic retrieval of retained glucose sensor wire from the omentum** *CLINICAL CASE REPORTS*  
Sang, A. X., Lal, R., August, A., Danzer, E., Buckingham, B., Mueller, C. M.  
2019
- **Optimizing Basal Insulin Dosing.** *The Journal of pediatrics*  
Lal, R. A., Maahs, D. M.  
2019
- **Realizing a Closed-Loop (Artificial Pancreas) System for the Treatment of Type 1 Diabetes.** *Endocrine reviews*  
Lal, R. A., Ekhlaspour, L., Hood, K., Buckingham, B.  
2019
- **Diabetes Technology and Therapy in the Pediatric Age Group.** *Diabetes technology & therapeutics*  
Maahs, D. M., Lal, R., Shalitin, S.  
2019; 21 (S1): S123–S137
- **One Year Clinical Experience of the First Commercial Hybrid Closed-Loop.** *Diabetes care*  
Lal, R. A., Basina, M. n., Maahs, D. M., Hood, K. n., Buckingham, B. n., Wilson, D. M.  
2019
- **Long-Acting Growth Hormone Preparations in the Treatment of Children.** *Pediatric endocrinology reviews : PER*  
Lal, R. A., Hoffman, A. R.  
2018; 16 (Suppl 1): 162–67
- **Advances in Care for Insulin-Requiring Patients Without Closed Loop.** *Diabetes technology & therapeutics*  
Lal, R. A., Buckingham, B., Maahs, D. M.  
2018; 20 (S2): S285–S291
- **Postmenopausal Hyperandrogenism.** *Journal of women's health care*  
Lal, R. A., Basina, M.  
2018; 7 (1)
- **A Case Report of Hypoglycemia and Hypogammaglobulinemia: DAVID syndrome in a patient with a novel NFKB2 mutation.** *journal of clinical endocrinology and metabolism*  
Lal, R. A., Bachrach, L. K., Hoffman, A. R., Inlora, J., Rego, S., Snyder, M. P., Lewis, D. B.  
2017
- **Clinical Use of Continuous Glucose Monitoring in Pediatrics.** *Diabetes technology & therapeutics*  
Lal, R. A., Maahs, D. M.  
2017; 19 (S2): S37-S43
- **An unusual cause of hyperglycemia** *JOURNAL OF POSTGRADUATE MEDICINE*  
Lal, R., Loomba-Albrecht, L. A., Bremer, A. A.  
2011; 57 (4): 343–46
- **Amyloid-beta and Glucose Metabolism in Alzheimer's Disease** *JOURNAL OF ALZHEIMERS DISEASE*  
Furst, A. J., Lal, R. A.  
2011; 26: 105-116
- **Amyloid-beta and Glucose Metabolism in Alzheimer's Disease** *HANDBOOK OF IMAGING THE ALZHEIMER BRAIN*  
Furst, A. J., Lal, R. A., Ashford, J. W., Rosen, A., Adamson, M., Bayley, P., Sabri, O., Furst, A., Black, S. E., Weiner, M.  
2011; 2: 235–46
- **Striatal Dopamine and Working Memory** *CEREBRAL CORTEX*  
Landau, S. M., Lal, R., O'Neil, J. P., Baker, S., Jagust, W. J.  
2009; 19 (2): 445-454
- **A beta Amyloid and Glucose Metabolism in Three Variants of Primary Progressive Aphasia** *ANNALS OF NEUROLOGY*  
Rabinovici, G. D., Jagust, W. J., Furst, A. J., Ogar, J. M., Racine, C. A., Mormino, E. C., O'Neil, J. P., Lal, R. A., Dronkers, N. F., Miller, B. L., Gorno-Tempini, M. L.

