

DAVID RODBARD, M.D.

Education

Residency	1965–1966 (Internal Medicine), Hahnemann Hospital (Drexel University)
Internship	1964–1965, King County Harborview Hospital, Seattle WA
M.D.	1964, Case Western Reserve University School of Medicine, Cleveland OH
B.A.	1960, State University of New York at Buffalo, Buffalo NY, <i>magna cum laude</i> , <i>Phi Beta Kappa</i> . Major in: <i>Division of Sciences</i>
-	1988, Graduate Summer Program in Epidemiology, Johns Hopkins University, School of Hygiene and Public Health

Honors and Awards

USPHS Meritorious Service Medal, NIH, 1993
USPHS Meritorious Service Medal, NIH, 1986
U.S. Public Health Service Award (USPHS) Commendation Medal, National Institutes of Health (NIH), 1984
The Sydney H. Ingbar Distinguished Service Award, The Endocrine Society, 1981
Young Investigator Award, Clinical Radioassay Society, 1979
Chiba Medical Society Award, Chiba, Japan, 1993

Current Positions

President and Chief Scientific Officer, Biomedical Informatics Consultants LLC. (2007 – date). Consultative services for major pharmaceutical firms, medical device companies, and federal government regarding computer applications in diabetes and endocrinology, analysis of continuous glucose monitoring data, clinical decision support systems related to diabetes, quality control and quality assurance of laboratory data, statistical data analysis and interpretation, biomedical laboratory studies, immunoassay, and drug- and hormone receptor binding.

Deputy Editor, Diabetes Technology and Therapeutics (A publication of Mary Ann Liebert Publishers, Inc.), 2018-date. Have handled more than 1000 manuscripts as Deputy Editor and more than 700 as reviewer.

Previous Professional Experience

Managing Research Scientist and Managing Director, American Institutes for Research (AIR), Health Program (1999 – 2006)

Principal Investigator and Project Director for several simultaneous ongoing research projects. Manager of health services researchers, physicians, computer programmers, industrial and organizational psychologists, statisticians, senior analysts, usability

experts, research associates, and support staff. Leadership of projects in the areas of medical informatics and applied information technology involving development and evaluation of new software applications for medical and educational purposes using the internet, personal digital assistants (PDA), and stand-alone programs. These software systems include electronic medical records and custom applications for PDAs. Design, conduct, and analysis of survey research using internet-based approaches. Development of algorithms for clinical decision support and analysis of data from research studies, with an emphasis on diabetes mellitus and metabolic syndrome.

Project Director, Major Medical Device Manufacturer. Design, Development, and Optimization of Human Factors for Software for the Analysis and Interpretation of Self-Monitoring of Blood Glucose by Patients with Diabetes Mellitus. (2005- 2006)

Design and analysis of performance of algorithms and statistical methods, and optimization of the human factors considerations for software for analysis of glucose data to assist primary care physicians and endocrinologists in the management of patients with diabetes. Methods include expert heuristic review, usability and cognitive laboratory studies, algorithm development, statistical testing, design of new methods for graphical display of data, review of evidence-based practice guidelines, and design and development of rule-based expert systems.

Researcher, American Institutes for Research. Design and Development of New Graphical Methods to Assist Pediatricians in the Screening of Children and Adolescents for Hypertension: Display Percentiles of Blood Pressure in Children by Age, Gender and Height. (2006)

Developed new graphical methods to facilitate the process of determining whether a given combination of age, gender, height and blood pressure represents hypertension for the age range 2 through 17.

Project Director CDMP, Project Director, Joslin Diabetes Center, Boston MA, and Telemedicine and Advanced Technology Research Center (TATRC), US Army Medical Research and Materiel Command, Ft. Detrick, MD. Usability Studies of a 'Comprehensive Diabetes Management System.' (2004 – 2006).

Evaluated the usability and human factors of a new electronic system for management of patients with diabetes mellitus, the Comprehensive Diabetes Management Program (CDMP). Conducted expert heuristic review, designed usability laboratory studies, prepared reports, and managed the activities of AIR usability laboratory personnel.

Project Director, Telemedicine and Advanced Technology Research Center (TATRC), US Army Medical Research and Materiel Command, Ft. Detrick, MD, and TRICARE Management Activity, Fairfax, VA (2005 – 2006).

Conducted an evaluation of the human factors and usability of components of an electronic medical record (EMR) system, AHLTA, used by all branches of the US military (previously designated Comprehensive Health Care System CHCS II) for application in the Emergency Department at US Military Treatment Facilities

using wireless “Tablet” Personal Computers. Contributed to the design of the EMR system, especially in terms of the form and content of a new “Alternative Input Method” to facilitate data entry.

Principal Investigator Walter Reed Army Health Care System, Development of Algorithms for a Computer Assisted Decision Support System (CADS) to assist primary care physicians in the management of patients with type 1 and type 2 diabetes mellitus. (2004-2005).

Designed computer algorithms to evaluate patient data, identify and prioritize problems and make recommendations regarding need for adjustment of dosage of oral medications or insulin, or to change treatment regimens.

Project Director, Walter Reed Army Health Care System, Integration of EMR Into Clinical Workflow Processes, Telemedicine and Advanced Technology Research Center (TATRC), AIR (2003-2006)

Designed and supervised a study to examine the ergonomics of introduction of an EMR system into a large, busy, outpatient department, and planned for implementation in an emergency department. Coordinated with client and AIR research team.

Project Director, Department of Education, National Library of Education, Assessment of the Educational Resources Information System (ERIC), AIR (2000–2003)

Conducted a systematic review of the ERIC system, comparing it with systems of the National Library of Medicine (NLM) and the National Agricultural Library, analyzing services, budget, audiences, performance measures, cost-effectiveness, information technology, management, policies, and recommending improvements. Lead a team of 12 individuals. Developed reports that led to substantial redirection and redesign of the ERIC system.

Project Director, Department of Education, Assessment of Usability of the Educational Resources Information System (ERIC), AIR (2002–2003)

Contributed to a three-phase usability study of the ERIC search engine and associated Web sites to optimize ease and speed of learning and use, and to optimize functionality and productivity. Prepared a final report prior to final design and implementation of the current ERIC search engine.

Senior Scientist, CMS and CNA Corporation, Development of Measures of Quality of Care for Management of Patients With Chronic Diseases, AIR (2001–2002)

Prepared literature reviews and developed white papers regarding measures of quality of care for patients with diabetes mellitus and other chronic diseases. Participated in the development of recommendations for data analysis and design of technical advisory panels.

Project Director, Centers for Medicare and Medicaid Services (CMS), Acquisition of Expert Witnesses for the Administrative Hearings Process, AIR (2001-2006)

Direction of a project to provide CMS with expert consultants and expert witnesses in support of the Department of Health and Human Services (HHS) Office of General Counsel litigation to improve the quality of care in long-term and intermediate-care facilities serving persons with mental retardation. Administered this program, which included a network of more than 130 experts who have consulted or testified in connection with more than 100 cases.

Project Director, Walter Reed Army Health Care System, User Needs Assessment for Medical Digital Assistants, Telemedicine and Advanced Technology Research Center (TATRC), AIR (2000-2002)

Designed, conducted, and analyzed a study of the user needs of physicians, nurses, pharmacists, and medical technicians for medical applications on hand-held personal computers. Supervised a team of 6 individuals and client personnel in monitoring 84 subjects during two separate two-month intervals, obtaining quantitative and qualitative data using surveys, focus groups, Delphi sessions, and objective monitoring of application usage by date and time. Prepared presentations for two major national meetings.

Co-Project Director, Walter Reed Army Health Care System, Usability of Medical Digital Assistants and Electronic Medical Records (TATRC), AIR (2000)

Designed and conducted studies on the usability of medical applications for PDAs and electronic Medical Records (EMR). Involved in project design in a complex environment, served as a liaison with the client and usability experts, developed materials for institutional review boards (IRBs), including surveys and measurement methods. Co-leader of a team involving seven AIR personnel and multiple personnel from the client.

Principal Investigator and Project Director, Department of Health and Human Services, Office of Research Integrity, Survey of Research Integrity Methods Utilized by Biomedical Research Laboratories, AIR (2000-2003)

Designed study and survey instrument, pilot and usability testing, implementation on a Web-based system, and conducted a survey of 7,000 biomedical research scientists funded by the National Institutes of Health (NIH) extramural program, to evaluate research integrity measures utilized in biomedical research laboratories. This included IRB review, Office of Management and Budget approval, and supervision of a team of individuals for implementation of the study. Conducted extensive statistical analyses and authored and edited a major technical report.

Project Director, Social Security Administration, Development of Improved Methods for the Determination of Work Disability (1999-2000)

Lead a multidisciplinary team of 35 scientists at multiple sites including AIR, four research universities, and two private sector subcontractors, to develop a new and

novel approach to the systematic determination of eligibility for disability benefits using a functional rather than a diagnostic-based approach. Developed a database of functional assessment measures and behaviorally anchored rating scales, and cognitive laboratory tested instruments comprising a “global assessment battery.” Integrated studies from industrial and organizational psychologists, a medical team and functional assessment team.

Lecturer, Quality Outcome Measurement and Physician Profiling, The Informatics Institute, Bethesda MD and Charlottesville VA (1998)

Prepared curriculum and didactic materials and delivered lectures for instruction of health care executives and physicians regarding quality outcome measurement employing statistical analyses.

Director, Information Resources Management Outreach and Liaison Activities, Association of American Medical Colleges (AAMC) (1996–1998)

Developed a new constituency for AAMC, the chief information officers, and other senior information technology leaders of the Nation’s academic medical centers and hospitals. Designed scientific programs and served as a liaison with the IAIMS (integrated advanced information management system) program of the National Library of Medicine (NLM).

Director, National Institutes of Health (NIH) Division of Computer Research and Technology (1990–1996) (currently named: Center for Information Technology)

Served as administrator and manager of the major information technology support service for 25,000 staff members at NIH and 30 other government agencies. DCRT provided networking, high-performance highly parallel supercomputing, mainframe, workstation, and desktop services and support. Supported clinical, laboratory, and administrative software applications, and training, security, and procurement. Responsible for a \$65 million per annum budget, a government staff of 200, and a contractor staff of 100.

Scientific Director, Program in Computational Biosciences, National Institutes of Health (NIH) Division of Computer Research and Technology (1990–1996)

Directed strategic planning and administration of a program in computational biosciences, including biomathematics, biostatistics, biophysics, image processing, genetics, and genomics. Managed budget, recruitment, and implementation of peer review for a group of 50 scientists of multiple disciplines. Represented the research program to the NIH Board of Scientific Directors. Conducted independent biomathematical and biostatistical research with focus on analysis of glucose and insulin data. Developed novel method for display and analysis of quality of glycemic control involving simultaneous consideration of efficacy (HbA1c) and risk of hypoglycemia.

Laboratory Chief, Section Head, and Principal Investigator, National Institutes of Health (NIH), National Institute of Child Health and Human Development (1982–1990)

Conducted basic biomedical research in biomathematics, biostatistics, biophysics, biochemistry, and physical chemistry. Supervised 25 individuals in three sections engaged in multidisciplinary research, with a budget of \$3 million per annum. Developed

algorithms and computer programs for applications at the clinical and laboratory level, including the logit-log and four parameter logistic methods for radioimmunoassay and pharmacological dose response curves, the “LIGAND” program for analysis of hormone and drug interactions with their receptors, and a series of programs for data management and clinical decision support for patients with diabetes mellitus, among several others. Developed methods and computer programs for analysis of glucose and insulin data for people with diabetes. Developed novel graphical displays such as the Ambulatory Glucose Profile (AGP) for analysis of glucose data obtained using memory-equipped glucose meters. Applied analysis of AGP to examine patterns of glucose profiles on different days of the week. These studies, and others dating back to 1966, resulted in more than 233 publications in the peer-reviewed scientific literature and an additional 100 invited book chapters, meeting proceedings, and other publications.

Employment History

2007 - date	President and Chief Scientific Officer, Biomedical Informatics Consulting LLC, Potomac MD
1999 – 2007	Managing Director and Managing Research Scientist, American Institutes for Research, Washington DC
1996 –1998	Director, Information Resources Outreach and Liaison Activities and Assistant Vice President, Office of Information Resources, Association of American Medical Colleges, Washington DC
1990 – 1996	Director, Division of Computer Research and Technology (Center for Information Technology), National Institutes of Health (NIH), Bethesda MD
1982 – 1990	Chief, Laboratory of Theoretical and Physical Biology, and Head, Theoretical Biology Section, National Institute of Child Health and Human Development (NICHD), NIH, Bethesda MD
1981 – 1989	Coordinator, Computers in Clinical Medicine Elective, Clinical Center, NIH
1979 – 1982	Head, Biophysical Endocrinology Section, Endocrinology and Reproduction Research Branch, NICHD, NIH
1971 – 1979	Senior Investigator, Endocrinology and Reproduction Research Branch, NICHD, NIH
1969 – 1971	Senior Staff Fellow, Endocrinology Branch, National Cancer Institute (NCI), NIH
1966 – 1969	Clinical Associate, Endocrinology Branch, NCI, NIH, Bethesda MD
1958 – 1963	Summer Research Fellow, Roswell Park Memorial Institute, Buffalo NY

Professional Affiliations

American Diabetes Association
Editorial Board, Diabetes Technology and Therapeutics (2007 – date)
Deputy Editor, Diabetes Technology and Therapeutics (2018 – date)
Editorial Board, Journal of Diabetes Science and Technology (2007 – 2022)
International Hypoglycaemia Study Group (IHSG)(2021-date)

Previous Affiliations:

American Association for the Advancement of Science
American Medical Informatics Association (AMIA)
American Physiological Society
American Society of Biochemistry and Molecular Biology
American Statistical Association
Biometrics Society
The Endocrine Society
European Association for the Study of Diabetes
Federation of American Societies of Experimental Biology and Medicine
IEEE Computer Society
Editorial Reviewer, Analytical Biochemistry
Editorial Reviewer, Journal of Clinical Endocrinology and Metabolism
Editorial Reviewer, American Journal of Physiology (Endocrinology, Metabolism, and Gastrointestinal Physiology)
HIMSS (Healthcare Information Management and Systems Society)

Publications and Selected Presentations

(*Asterisk indicates publication in peer-reviewed journal)

1.	Klonoff DC, Kohn MA, Rodbard D, Aaron RE, Tian T. Response to: Sensitivity of the Glycemia Risk Index to Effects of Automated Insulin Delivery Initiation. <i>J Diabetes Sci Technol</i> . 2024 Mar;18(2):528-529. doi: 10.1177/19322968231220064. Epub 2023 Dec 24. PMID: 38142366.
2.	*Wang Y, Lu J, Ni J, Wang M, Shen Y, Lu W, Zhu W, Bao Y, Rodbard D , Vigersky RA, Jia W, Zhou J. Association between glycaemia risk index (GRI) and diabetic retinopathy in type 2 diabetes: A cohort study. <i>Diabetes Obes Metab</i> . 2023 Sep;25(9):2457-2463. doi: 10.1111/dom.15068. Epub 2023 Jun 23. PMID: 37353345.
3.	*Steenkamp DW, Cheney MC, Ju Z, Rodbard D , Wolpert HA. Proof-of-concept Application of Continuous Glucose Monitoring Data Analytics to Identify Diabetes Glucotypes. <i>J Endocr Soc</i> . 2023 Mar 17;7(5):bvad038. doi: 10.1210/jendso/bvad038. PMID: 37035501; PMCID: PMC10074392.
4.	* Rodbard D . Continuous Glucose Monitoring Metrics [Mean Glucose, Time Above Range, and Time In Range are superior to HbA1c for assessment of Therapeutic Efficacy. <i>Diabetes Obes Metab</i> . 2023 Feb;25(2):596-601. doi: 10.1111/dom.14906. PMID: 36314133. Epub ahead of print. 2022 Dec 1.
5.	*Phillip M, Nimri R, Bergenstal RM, Barnard-Kelly K, Danne T, Hovorka R, Kovatchev BP, Messer LH, Parkin CG, Ambler-Osborn L, Amiel SA, Bally L, Beck RW, Biester S, Biester T, Blanchette JE, Bosi E, Boughton CK, Breton MD, Brown SA, Buckingham BA, Cai A, Carlson AL, Castle JR, Choudhary P, Close KL, Cobelli C, Criego AB, Davis E, de Beaufort C, de Bock MI, DeSalvo DJ, DeVries JH, Dovc K, Doyle FJ, Ekhlaspour L, Shvalb NF, Forlenza GP, Gallen G, Garg SK, Gershonoff DC, Gonder-Frederick LA, Haidar A, Hartnell S, Heinemann L, Heller S, Hirsch IB, Hood KK, Isaacs D, Klonoff DC, Kordonouri O, Kowalski A, Laffel L, Lawton J, Lal RA, Leelarathna L, Maahs DM, Murphy HR, Nørgaard K, O'Neal D, Oser S, Oser T, Renard E, Riddell MC, Rodbard D , Russell SJ, Schatz DA, Shah VN, Sherr JL, Simonson GD, Wadwa RP, Ward C, Weinzimer SA, Wilmot EG, Battelino T. Consensus Recommendations for the Use of Automated Insulin Delivery (AID) Technologies in Clinical Practice. <i>Endocr Rev</i> . 2022 Sep 6:bnac022. doi: 10.1210/endrev/bnac022. Epub ahead of print. PMID: 36066457.
6.	*Klonoff DC, Wang J, Rodbard D , Kohn MA, Li C, Liepmann D, Kerr D, Ahn D, Peters AL, Umpierrez GE, Seley JJ, Xu NY, Nguyen KT, Simonson G, Agus MSD, Al-Sofiani ME, Armaiz-Pena G, Bailey TS, Basu A, Battelino T, Bekele SY, Benhamou PY, Bequette BW, Blevins T, Breton MD, Castle JR, Chase JG, Chen KY, Choudhary P, Clements MA, Close KL, Cook CB, Danne T, Doyle FJ 3rd, Drincic A, Dungan KM, Edelman SV, Ejlskjær N, Espinoza JC, Fleming GA, Forlenza GP, Freckmann G, Galindo RJ, Gomez AM, Gutow HA, Heinemann L, Hirsch IB, Hoang TD, Hovorka R, Jendle JH, Ji L, Joshi SR, Joubert M, Koliwad SK, Lal RA, Lansang MC, Lee WA, Leelarathna L, Leiter LA, Lind M, Litchman ML, Mader JK, Mahoney KM, Mankovsky B, Masharani U, Mathioudakis NN, Mayorov A, Messler J, Miller JD, Mohan V, Nichols JH, Nørgaard K, O'Neal DN, Pasquel FJ, Philis-Tsimikas A, Pieber T, Phillip M, Polonsky WH, Pop-Busui R, Rayman G, Rhee EJ, Russell

SJ, Shah VN, Sherr JL, Sode K, Spanakis EK, Wake DJ, Waki K, Wallia A, Weinberg ME, Wolpert H, Wright EE, Zilbermint M, Kovatchev B. A Glycemia Risk Index (GRI) of Hypoglycemia and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings. <i>J Diabetes Sci Technol</i>. 2022 Mar 29;19322968221085273. doi: 10.1177/19322968221085273. Epub ahead of print. PMID: 35348391.
7. *Rodbard D. Quality of Glycemic Control: Assessment Using Relationships Between Metrics for Safety and Efficacy. <i>Diabetes Technol Ther</i>. 2021 Oct;23(10):692-704. doi: 10.1089/dia.2021.0115. Epub 2021 Jul 14. PMID: 34086495
8. *Grunberger G, Sherr J, Allende M, Blevins T, Bode B, Handelsman Y, Hellman R, Lajara R, Roberts VL, Rodbard D, Stec C, Unger J. American Association of Clinical Endocrinology Clinical Practice Guideline: The Use of Advanced Technology in the Management of Persons With Diabetes Mellitus. <i>Endocr Pract</i>. 2021 Jun;27(6):505-537. doi: 10.1016/j.eprac.2021.04.008. PMID: 34116789.
9. *Rodbard D. The Ambulatory Glucose Profile: Opportunities for Enhancement. <i>Diabetes Technol Ther</i>. 2021 May;23(5):332-341. Epub 2020 Dec 11. doi: 10.1089/dia.2020.0524. PMID: 33107758.
10. *Wolpert H, Polonsky W, Rodbard D. Insulin Metrics: Need for Development of Consensus Standards for Reporting of Insulin Dosing Data. <i>Diabetes Technol Ther</i>. 2021 Jul;23(7):522-526. Epub. Feb 1. doi: 10.1089/dia.2020.0631. PMID: 33523768.
11. *Rodbard D, Garg S. Standardizing Reporting of Glucose and Insulin Data for Patients on Multiple Daily Injections Using Connected Insulin Pens, and Continuous Glucose Monitoring. <i>Diabetes Technol Ther</i>. 2021;23(3):221-226. doi:10.1089/dia.2021.0030 doi: 10.1089/dia.2021.0030. PMID: 33480828
12. *Blevins T, Lane W, Rodbard D, Sindelar DK, Fan L, Ellinor KS, Ilag L, Ly TT, Johnson J. Glucose Variability and Time in Range in Type 2 Diabetes Treated with U-500R by Pump or Injection: CGM findings from the VIVID study. <i>Diabetes Technol Therapeutics</i>, 2021 Jan;23(1):51-58. Epub 2020 Jul 6. doi: 10.1089/dia.2020.0030. PMID: 32631081
13. *Garg SK, Rodbard D, Hirsch IB, Forlenza GP. Managing New-Onset Type 1 Diabetes During the COVID-19 Pandemic: Challenges and Opportunities. <i>Diabetes Technol Ther</i>. 2020 Jun;22(6):431-439. Epub 2020 Apr 17. doi: 10.1089/dia.2020.0161.] PMID: 32302499
14. *Rodbard D. Glucose Time-In-Range, Time-Above-Range, and Time-Below-Range Depend on Mean or Median Glucose or HbA1c, Glucose Coefficient of Variation (%CV), and Shape of the Glucose Distribution. <i>Diabetes Technol Ther</i>. 2020 Jul;22(7):492-500. Epub 2019 Dec 30. doi: 10.1089/dia.2019.0440 PMID: 31886733

15. *Rodbard HW, Rodbard D . Biosynthetic human insulin and insulin analogs. Am J Ther. 2020 Jan/Feb;27(1):e42-e51. doi: 10.1097/MJT.0000000000001089. PMID: 31876563
16. *Battelino T, Danne T, Bergenstal RM, Amiel SA, Beck R, Biester T, Bosi E, Buckingham BA, Cefalu WT, Close KL, Cobelli C, Dassau E, DeVries JH, Donaghue KC, Dovic K, Doyle FJ 3rd, Garg S, Grunberger G, Heller S, Heinemann L, Hirsch IB, Hovorka R, Jia W, Kordonouri O, Kovatchev B, Kowalski A, Laffel L, Levine B, Mayorov A, Mathieu C, Murphy HR, Nimri R, Nørgaard K, Parkin CG, Renard E, Rodbard D , Saboo B, Schatz D, Stoner K, Urakami T, Weinzimer SA, Phillip M. Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations from the International Consensus on Time in Range. Diabetes Care 2019 Aug;42(8):1593-1603. doi: 10.2337/dci19-0028. Epub 2019 Jun 8. pii: dci190028. doi: 10.2337/dci19-0028. PMID: 31177185.
17. *Castle JR, Rodbard D. How Well Do Continuous Glucose Monitoring Systems Perform During Exercise? Diabetes Technol Ther. 2019 Jun;21(6):305-309. doi:10.1089/dia.2019.0132. PubMed PMID: 31157567
18. *Rodbard D . State of Type 1 Diabetes Care in the United States in 2016–2018 from T1D Exchange Registry Data. Diabetes Technology and Therapeutics (Commentary). (2019) Feb. 21 (2). DOI: 10.1089/dia.2019.0008
19. *Beck RW, Bergenstal RM, Cheng P, Kollman C, Carlson AL, Johnson ML, Rodbard D . The Relationships Between Time in Range, Hyperglycemia Metrics, and HbA1c. J. Diabetes Sci. and Technol. 2019, J Diabetes Sci Technol. 2019 Jan 13:1932296818822496. doi: 10.1177/1932296818822496. [Epub 2019 ahead of print] PMID: 30636519
20. *Rodbard D. Glucose Variability: A Review of Clinical Applications and Research Developments. Diabetes Technology and Therapeutics. 2018 (June); 20 (Suppl. 2)
21. *Rodbard D. Metrics to Evaluate Quality of Glycemic Control: Comparison of Time in Target, Hypoglycemic- and Hyperglycemic Ranges with “Risk Indices”. Diabetes Technology and Therapeutics. 2018 (May); 20 (5), doi: 10.1089(dia.2017,0416)
22. Rodbard D. Response to Letter to the Editor. Diabetes Technol Ther. 2018 Apr;20(4):318-319. doi: 10.1089/dia.2018.0063.
23. *Rodbard D. Optimizing the Estimation of Carbohydrate-to-Insulin Ratio and Correction Factor. Diabetes Technol Ther. 2018 Feb;20(2):94-97. doi: 10.1089/dia.2017.0454.
24. *Pimazoni-Netto A, Rodbard D. Concerns About Conclusions of Self-monitoring of Blood Glucose. (Letter to the Editor. Re: L.A. Young, JB Buse, MA Weaver, et al., Glucose Self-Monitoring in Non-Insulin-Treated Patients with Type 2 Diabetes in Primary Care Settings. (JAMA Intern Med doi:10.1001/jamainternmed.2017,1233 June 10, 2017.) JAMA Internal Medicine.) JAMA Intern Med. 2017 Dec 1;177(12):1873-

1874. Doi: 10.1001/jamainternmed.2017.6142, 10.1001/jamainternmed.2017.6143. PMID: 29204633
25. *Osborn CY, van Ginkel JR, Marrero DG, Rodbard D, Huddleston B, Dachis J. One Drop Mobile on iPhone and Apple Watch: An Evaluation of HbA1c Improvement Associated with Tracking Self-Care. JMIR Mhealth Uhealth. 2017 Nov 29;5(11):e179. Doi: 10.2196/mhealth.8781. PMID: 29187344
26. *Osborn CY, van Ginkel JR, Rodbard D, Heyman M, Marrero DG, Huddleston B, Dachis J. One Drop Mobile: An evaluation of hemoglobin A1c improvement linked to App engagement. JMIR Diabetes 2017; Vol 2, No 2 (2017): Jul-Dec; e21 DOI: 10.2196/diabetes.8039 (Accessed 9-18-2017) Published on 24.08.17 http://diabetes.jmir.org/2017/2/e21/?utm_source=TrendMD&utm_medium=cpc&utm_campaign=JMIR_Diabetes_TrendMD_0
27. *Rodbard D. Continuous Glucose Monitoring: A Review of Recent Studies Demonstrating Improved Glycemic Outcomes. Diabetes Technol Ther. 2017 Jun;19(S3):S25-S37. doi: 10.1089/dia.2017.0035. PMID: 28585879
28. *Bergenstal RM, Bailey TS, Rodbard D, Ziemien M, Guo H, Muehlen-Bartmer I, Ahmann AJ. Comparison of Insulin Glargine 300 Units/mL and 100 Units/mL in Adults With Type 1 Diabetes: Continuous Glucose Monitoring Profiles and Variability Using Morning or Evening Injections. Diabetes Care. 2017 Apr;40(4):554-560. doi: 10.2337/dc16-0684. Epub 2017 Jan 23. PMID: 28115474
29. *Bailey TS, Grunberger G, Bode BW, Handelsman Y, Hirsch IB, Jovanović L, Roberts VL, Rodbard D , Tamborlane WV, Walsh J; AMERICAN ASSOCIATION OF CLINICAL ENDOCRINOLOGISTS AND AMERICAN COLLEGE OF ENDOCRINOLOGY 2016 OUTPATIENT GLUCOSE MONITORING CONSENSUS STATEMENT. American Association of Clinical Endocrinologists (AACE); American College of Endocrinology (ACE). Endocr Pract. 2016 Feb;22(2):231-61. doi: 10.4158/EP151124.CS. Epub 2016 Jan 27. Erratum in: Endocr Pract. 2016 Apr;22(4):516. PMID: 26848630
30. *Rodbard D. Continuous Glucose Monitoring: A Review of Successes, Challenges, and Opportunities. Diabetes Technol Ther. 2016 Feb;18 Suppl 2:S3-S13. doi: 10.1089/dia.2015.0417. PMID: 26784127
31. *Rodbard D. Glycemic variability: challenges in interpretation. Diabetes Technol Ther. 2015 Jun;17(6):370-2. doi: 10.1089/dia.2015.0155. PMID: 25961603
32. *Rodbard D. Evaluating quality of glycemic control: graphical displays of hypo- and hyperglycemia, time in target range, and mean glucose. J Diabetes Sci Technol. 2015 Jan;9(1):56-62. doi: 10.1177/1932296814551046. Epub 2014 Oct 14. PMID: 25316714
33. *Rodbard D. Characterizing accuracy and precision of glucose sensors and meters. J Diabetes Sci Technol. 2014 Sep;8(5):980-5. doi: 10.1177/1932296814541810. Epub 2014 Jul 18. PMID: 25037194
34. *Rodbard D. Increased glycemic variability at the onset and during progression of type 2 diabetes-commentary. Diabetes Technol Ther. 2013 Jun;15(6):445-7. doi:

10.1089/dia.2013.0146. PubMed PMID: 23731442.
35. *Rodbard D. Standardization versus customization of glucose reporting. Diabetes Technol Ther. 2013 May;15(5):439-43. doi: 10.1089/dia.2013.0116. PubMed PMID: 23634672. Commentary regarding: Bergenstal R et al. Recommendations for standardizing glucose reporting and analysis to optimize clinical decision making in diabetes: the ambulatory glucose profile (AGP). Diabetes Technol Ther 2013;15:198-211.
36. *Rodbard D. Hypo- and hyperglycemia in relation to the mean, standard deviation, coefficient of variation, and nature of the glucose distribution. Diabetes Technol Ther. 2012 Oct;14(10):868-76. PubMed PMID: 22953755.
37. * Rodbard D. The challenges of measuring glycemic variability. J. Diabetes Science and Technology. 2012 (May); 6(3) 712-5.
38. *Rodbard D. Glycemic Variability: Measurement and Utility in Clinical Medicine and Research – One Viewpoint. Diab. Technol. Therapeutics 2011; 13(11): 1077-80. (Available online at liebertonline.com/dia August 2011).
39. Rodbard D. Glycemic Variability: Measurement. Invited presentation, American Diabetes Association Annual Scientific Meeting, Philadelphia, PA, June 2012. (Available on video from American Diabetes Association; requires purchase from ADA). http://professional.diabetes.org/presentations_details.aspx?session=4041
40. *Rodbard D. Clinical interpretation of indices of quality of glycemic control and glycemic variability. Postgrad Med. 2011 Jul;123(4):107-18. PubMed PMID: 21680995.
41. Rodbard D. The combinatorics of medications precludes evidence-based algorithms for therapy. Diabetologia. 2010 Sep 12. [PMID: 20835857 doi 10.1007/s00125-010-1904-8]
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Recent Presentations and Abstracts

1. Speaker, Advances in Therapeutics and Technology for Diabetes, Industry Sponsored Symposium. Development of Consensus Metrics for Insulin. March 8, 2024.
2. Invited Speaker. Advances in Therapeutics and Technology for Diabetes. Symposium. Times in Ranges Are Superior to HbA1c for Assessment of Efficacy of Therapies for Diabetes. Berlin, Germany. February 2023.
3. Invited Speaker. Diabetes Technology Society Annual National Meeting. Rockville MD. Plenary Session. Glycemic Variability and its Clinical Applications. Plenary Session 1. November 5, 2021.
4. Statistical Advisory Panel. (Clinical Participant and Expert Technical Participant) . re: Klonoff D et al., A Glycemia Risk Index (GRI) of Hypo- and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings. Diabetes Technology Society Annual National Meeting. Rockville MD. Methods for Evaluation of Quality of Glycemic Control. Plenary Session 1. November 5, 2020.
5. Invited Speaker. Diabetes Technology Society Annual National Meeting. Rockville MD. Methods for Evaluation of Quality of Glycemic Control. Plenary Session 1. November 13, 2020.
6. Speaker, Advances in Therapeutics and Technology for Diabetes, Industry Sponsored Symposium. Development of Consensus Metrics for Insulin. June 2021.
7. Invited Speaker. Advances in Therapeutics and Technology for Diabetes 2020, Madrid, Development and Evolution of Long Acting Insulins, February 21, 2020.
8. Invited Speaker. Advances in Therapeutics and Technology for Diabetes 2020, Madrid, Development of Standardized Methods for Display and Analysis of Insulin Data. February 20, 2020. (Industry Sponsored Symposium)
9. Invited Participant. Advances in Therapeutics and Technology for Diabetes 2020, Madrid, Spain, Satellite Meeting for development of A CONSENSUS STATEMENT ON DIGITALIZING DIABETES CARE, Cost Perspectives. February 18, 2020.
10. Osborn CY, Rodbard D, Huddleston B, Heyman M, Dachis J. Using the One Drop mobile app to track self-care and remember medications is associated with improved glycemia. International Diabetes Federation Congress; 2017; Abu Dhabi, United Arab Emirates.
11. Osborn CY, Heyman M, Huddleston B, Van Ginkel JR, Rodbard D, Dachis J. The One Drop mobile app with in-app coaching improves blood glucose and self- care. American Diabetes Association Annual Scientific Meeting. Diabetes (Abstract Book). June 2017;66 (pp 228).

12. Dachis J, Osborn CY, Rodbard D, Huddleston B. One Drop app users report improved glycemic control. *Ann Behavioral Med (Annual Meeting)*. 2017;51 (Suppl 1):S1–S2867.
13. American Diabetes Association Annual Scientific Meeting. July 2017, San Diego, CA. Presentation 940-P.
14. Invited Speaker, Diabetes Technology Society Meeting, November 2016, Workshop, Rockville MD.
15. Invited Speaker, Advanced Technologies and Therapeutics in Diabetes, February 2017, Paris
16. Invited Speaker, Diabetes Technology Society Meeting, November 2016, Workshop, Rockville MD.
17. Invited Speaker, Advanced Technologies and Therapeutics in Diabetes, February 2016, Milan
18. Invited Speaker, Diabetes Technology Society Meeting, November 2015, Workshop, Rockville MD.
19. Poster Presentation, A ‘Figure of Merit’ to characterize quality of Glycemic Control. Diabetes Technology Society Meeting, November 2005, Workshop, Rockville MD.

Technical Reports (Partial Listing)

1. Rodbard, D., Dozier, J., Brandes, W.S. Studies of Usability and Human Factors of Electronic Medical Records (AHLTA) for Use in Emergency Departments at Military Treatment Facilities (Parts I – III) (2006). Technical report. Prepared for U.S. Army Telemedicine and Advanced Technology Research Center (TATRC), Frederick MD. American Institutes for Research, Washington DC.
2. Rodbard, D. et al. Design and Development of Improved Methods for Display and Analysis of Self- Monitoring of Blood Glucose Data. Design Considerations, Algorithms, and Usability Laboratory Studies (2006) (Parts I - VII). Technical reports. Prepared for a major medical device manufacturing company. American Institutes for Research, Washington DC.
3. Paulsen, C., Rodbard, D. (2005, March). Heuristic analysis of usability of a new comprehensive diabetes management program. Technical report. Prepared for Joslin Diabetes Center and U.S. Army Telemedicine and Advanced Technology Research Center (TATRC), American Institutes for Research, Washington DC.
4. Rodbard, D., O'Shea, G.P., Keeney, M., Levine, R., Win, A., Clark, E., et al. (2003, October). Survey of research integrity methods utilized in biomedical research laboratories. Technical report. Prepared for DHHS Office of Research Integrity, American Institutes for Research, Washington DC. Available online at http://ori.dhhs.gov/documents/research/integrity_measures_final_report_11_07_03.pdf http://ori.dhhs.gov/documents/research/integrity_measures_instrument.pdf http://ori.dhhs.gov/documents/research/integrity_measures_ori_lit_review_final.pdf
5. Rodbard, D., Brandes, W., Davies, S., Lyons, B. (2002, June). Clinical needs assessment for medical digital assistants in clinical practice. Technical report. Prepared for Telemedicine and Advanced Technologies Research Center and Walter Reed Army Healthcare System. American Institutes for Research, Washington DC, December 2002. Presented in part at the American Telemedicine Association annual meeting, Los Angeles.
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Patents

1. Systems and methods for pattern recognition in diabetes management

Patent number: 8758245

Abstract: A diabetes management system or process is provided herein that may be used to analyze and recognize patterns for a large number of blood glucose concentration measurements and other physiological parameters related to the glycemia of a patient. In particular, a method of monitoring glycemia in a patient may include storing a patient's data on a suitable device, such as, for example, a blood glucose meter. The patient's data may include blood glucose concentration measurements. The diabetes management system or process may be installed on, but is not limited to, a personal computer, an insulin pen, an insulin pump, or a glucose meter. The diabetes management system or process may identify a plurality of pattern types from the data including a testing/dosing pattern, a hypoglycemic pattern, a hyperglycemic pattern, a blood glucose variability pattern, and a comparative pattern.

Type: Grant

Filed: March 20, 2007

Issued: June 24, 2014

Assignee: Lifescan, Inc.

Inventors: Pinaki Ray, Greg Matian, Aparna Srinivasan, **David Rodbard**, David Price

2. METHOD AND SYSTEM TO INDICATE GLYCEMIC IMPACTS OF INSULIN INFUSION PUMP COMMANDS

Application number: 20140074059

Abstract: Various methods and system to provide insight into how certain commands to a patient's infusion pump impact glycemic control of the subject. These patterns help to identify very specific areas of glycemic excursions, enable patients and HCPs to more easily identify patterns of hypoglycemia and hyperglycemia in order to take steps to improve glycemic control of the person with diabetes.

Type: Application

Filed: September 12, 2012

Issued: March 13, 2014

Assignee: LifeScan, Inc.

Inventors: Frances Wilson HOWELL, Janice MACLEOD, **David Rodbard**

European Patent Office Application 13836336.1 – 1951 (PCT/US2013050-49) Filed Sept. 10, 2013

3. METHOD AND SYSTEM TO INDICATE HYPERGLYCEMIA OR HYPOGLYCEMIA FOR PEOPLE WITH DIABETES

Application number: 20140024907

Abstract: Various methods and systems to manage diabetes of a subject using data relating to patterns to provide insight into how a patient's daily activities impact glycemic control of the subject. These patterns help to identify very specific areas of glycemic excursions, enable patients and HCPs to more easily identify patterns of hypoglycemia and hyperglycemia in order to take steps to improve glycemic control of the person with diabetes.

Type: Application

Filed: July 19, 2012

Issued: January 23, 2014

Assignee: LifeScan, Inc.

Inventors: Frances Wilson HOWELL, Janice MacLEOD, **David Rodbard**

European Patent Office Application 13819761.1 – 1657 (PCT/US2013051113) Filed: July 18, 2013

4. COMMUNICATION MEDIUM FOR DIABETES MANAGEMENT

Application number: 20080235053

Abstract: A diabetes management system or process is provided herein that may be used to analyze and recognize patterns for a large amount of blood glucose concentration measurements and other physiological parameters related to the glycemia of a patient. In particular, a communication medium is provided. The communication medium includes first, second, third, fourth and fifth display areas. The second through fifth display areas can be disposed in the first display area. The second display area has identification information of a patient. The third display area has a plurality of textual messages indicative of glycemic status of the patient. The fourth display area includes a chart indicative of a variability of the glucose concentration of the patient over a predetermined time period. Other messages can also be provided to ensure compliance of any prescribed diabetes regimens or to guide the patient in managing the patient's diabetes.

Type: Application

Filed: March 20, 2007

Issued: September 25, 2008

Inventors: Pinaki Ray, Greg Matian, Aparna Srinivasan, Pamela Lai, **David Rodbard**, Roger Levine, Andrea Burling, Laura Robinson, David Price

5. SYSTEMS AND METHODS FOR PATTERN RECOGNITION IN DIABETES MANAGEMENT

Application number: 20080234992

Abstract: A diabetes management system or process is provided herein that may be used to analyze and recognize patterns for a large number of blood glucose concentration measurements and other physiological parameters related to the glycemia of a patient. In particular, a method of monitoring glycemia in a patient may include storing a patient's data on a suitable device, such as, for example, a blood glucose meter. The patient's data may include blood glucose concentration measurements. The diabetes management system or process may be installed on, but is not limited to, a personal computer, an insulin pen, an insulin pump, or a glucose meter. The diabetes management system or process may identify a plurality of pattern types from the data including a testing/dosing pattern, a hypoglycemic pattern, a hyperglycemic pattern, a blood glucose variability pattern, and a comparative pattern.

Type: Application

Filed: March 20, 2007

Issued: September 25, 2008

Inventors: Pinaki RAY, Greg Matian, Aparna Srinivasan, **David Rodbard**, David Price
European Patent Office: Notice: 06 March 2015 Application No. 13819761.1 – 1657
PCT/US2013051113

Date of Filing: 19 July 2012 /USA 201213553655

Method and System to Indicate Hyperglycemia or Hypoglycemia for People with Diabetes
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6. COMPUTER PROGRAM FOR DIABETES MANAGEMENT

Application number: 20080234943

Abstract: A diabetes management system or process is provided herein that may be used to analyze and recognize patterns for a large amount of blood glucose concentration measurements and other physiological parameters related to the glycemia of a patient. In particular, a method of monitoring glycemia in a patient may include storing a patient's data on a suitable device, such as, for example, a glucose meter. The patient's data may include blood glucose concentration measurements. The diabetes management system or process may be installed on, but is not limited to, a personal computer, an insulin pen, an insulin pump, or a glucose meter. The diabetes management system or process may identify a plurality of pattern types from the data including a testing/dosing pattern, a hypoglycemic pattern, a hyperglycemic pattern, a variability pattern, and a comparative pattern.

Type: Application

Filed: March 20, 2007

Issued: September 25, 2008

Inventors: Pinaki RAY, Greg Matian, Aparna Srinivasan, **David Rodbard**, David Price

7. Dimeric enkephalins

Patent number: 4468383

Abstract: The compounds of the invention are symmetrical dimers of enkephalin polypeptides comprising enkephalin polypeptide monomers linked at the C-termini thereof with a difunctional amino bridging group. The compounds are useful as investigative tools for probing the opiate receptor membranes, particularly as radiolabelled ligands for exploring the delta opiate receptor, and also have particular use as narcotic and/or analgesic agents.

Type: Grant

Filed: September 29, 1982

Issued: August 28, 1984

Assignee: The United States of America as represented by the Secretary of the Department of Health and Human Service

Inventors: **David Rodbard**, Y. Shimohigashi, Hao-Chia Chen, Tommaso Costa