CURRICULUM VITAE

DAVID CHARLES KLONOFF, M.D., FACP, FRCP (Edin), FELLOW AIMBE

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SUMMARY

David C. Klonoff, M.D. is an endocrinologist specializing in the development and use of diabetes technology. He is Medical Director of the Dorothy L. and James E. Frank Diabetes Research Institute of Mills-Peninsula Medical Center in San Mateo, California and a Clinical Professor of Medicine at UCSF. Dr. Klonoff received an FDA Director's Special Citation Award in 2010 for outstanding contributions related to diabetes technology. In 2012 Dr. Klonoff was elected as a Fellow of the American Institute of Medical and Biological Engineering (AIMBE) and cited as one of the 1000 top bioengineers in the world. as well as among the top 2% of the world's bioengineers for his engineering work in diabetes technology. He received the 2012 Gold Medal Oration and Distinguished Scientist Award from the Dr. Mohan's Diabetes Specialities Centre and Madras Diabetes Research Foundation of Chennai, India. Dr. Klonoff was invited to speak ot the US Congressional Diabetes Caucus in 2017, participate in the White House Health and Cybersecurity Roundtable in 2015, and speak at the European Parliament in 2010. He is the Founding Editor-in-Chief of Journal of Diabetes Science and Technology. He has authored over 270 publications. Dr. Klonoff has been a Principal Investigator on 110 clinical trials of diabetes drugs and devices, and has been lead investigator on multicenter trials for Novo, Sanofi, Medtronic, Biorad, and Diasome. He was the lead investigator for the first randomized controlled multicenter trial of an outpatient artificial pancreas product, and published the results in the New England Journal of Medicine. He chaired the scientific advisory board for the first FDA-cleared insulin patch pump and participated in developing the first FDA-cleared dedicated diabetes telemedicine system. Dr. Klonoff coined the term "diabetes technology" and founded the Diabetes Technology Meeting, the Digital Diabetes Congress, and the Medical Device Security and Privacy Meeting. Dr. Klonoff has chaired or served on grant review panels for NIH, CDC, NASA, NSF, US Army, NOAA, ADA, JDRF, Yale University, University of Michigan, and Diabetes UK. He is a member of the Scientific Advisory Board of the Texas A&M/UCLA/FIU/Rice PATHS-UP Engineering Research Center and an affiliate member of the Baylor University Center for Space Medicine. Dr. Klonoff is a graduate of UC Berkeley, where he was elected to Phi Beta Kappa in his junior year, and UCSF Medical School, where he was elected to Alpha Omega Alpha in his junior year. His postgraduate training included two years at UCLA Hospital and three years at UCSF Hospitals. He was a member of the NIH Diabetes Interagency Coordinating Committee, whose ten-year research plan was released in 2011. He chaired DTSec and DTMoST, the world's 1st and 2nd consensus medical device cybersecurity standards. For this work Dr. Klonoff was featured in an article in Wired Magazine: https://www.wired.com/2015/11/the-doctor-on-a-quest-to-save-our-medical-devices-from-hackers/

PRESENT ACADEMIC AND PROFESSIONAL POSITION

 2006-Present Editor-in-Chief, Journal of Diabetes Science and Technology
 2000-Present Medical Director, Dorothy L. and James E. Frank Diabetes Research Institute, Mills-Peninsula Medical Center, San Mateo, California
 1995-Present Clinical Professor, Department of Medicine, U.C. San Francisco

EDUCATION

1972-1976 University of California at San Francisco: M.D.1968-1972 University of California at Berkeley: B.S. in Genetics (with Highest Honors)

POSTGRADUATE TRAINING

1979 – 1981	Fellowship: Metabolic Research Unit, University of California at San Francisco
	San Francisco, California, Endocrinology and Metabolism
1978 – 1979	Residency: University of California at San Francisco Hospitals and Clinics
	San Francisco, California, Internal Medicine
1977 – 1978	Residency: UCLA Hospital, Los Angeles, California, Internal Medicine
1976 – 1977	Internship: UCLA Hospital, Los Angeles, California, Internal Medicine

BOARD CERTIFICATION

1981Diplomate, American Board of Endocrinology and Metabolism1980Diplomate, American Board of Internal Medicine

MEDICAL LICENSURE

California #G35726 (1977)

HONORS/AWARDS

2017		Cited in the Castle Connolly Medical Ltd. List of Top Doctors in the US
	- 2016	Cited in San Francisco Magazine: Bay Area's Top Doctors (Endocrinology)
2014		Fellow, Royal College of Physicians (Edinburgh)
2013		Fellow, American Institute of Medical and Biological Engineering (AIMBE) and cited as one of the 1000 top bioengineers in the world, and as being one of the top 2% of
		the world's bioengineers.
2013		Cited in San Francisco Super Doctors, 2013 (Endocrinology)
2012		Cited in San Francisco Super Doctors, 2012 (Endocrinology)
		San Francisco Chronicle Magazine. August 5, 2012
2012		20th Annual Gold Medal Oration and Distinguished Scientist Award from Dr.
		Mohan's Diabetes Specialties Centre and Madras Diabetes Research Foundation of
		Chennai, India
2011-	-2016	Cited in the Castle Connolly Medical Ltd. List of Top Doctors in the US as being in
		the top 1% of endocrinologists nationally
2010		FDA Director's Special Citation Award for outstanding contributions to the
		Center for Devices and Radiological Health related to diabetes technology
2006		Physician of the Month, Mills-Peninsula Health Services
2005		Health Hero Award of Mills-Peninsula Health Services
1994		Cited in "Outstanding Physician Specialists of the Bay Area" and rated Best
		Endocrinologist in San Mateo County by Bay Area Consumers' Checkbook
1991		Fellow, American College of Physicians
1981		American Diabetes Association, San Mateo County Chapter, Distinguished
		Service Citation
1980 -	- 1981	Dorothy Lang Frank Diabetes Fellowship
1975		Alpha Omega Alpha (Junior Year)
1972		UC San Francisco Regents Scholarship
1972		UC Berkeley Department of Genetics Citation
1971		Phi Beta Kappa (Junior Year)

PROFESSIONAL ACTIVITIES

<u>NATIONAL</u>

2018– Present	Scientific Advisory Board: Texas A&M/UCLA/FIU/Rice University Precise Advanced Technologies and Health Systems for Underserved Populations
2018	Engineering Research Center (PATHS-UP)
2018 2017-2018	ENDO 2018 (The Endocrine Society) Abstract Reviewer Endocrine Society, Task Force on Technology in Type 1 Diabetes
2017-2018 2017	United States Congress, Diabetes Caucus Briefing: Accuracy of Cleared Blood
2017	Glucose Monitor Systems
2017	Centers for Medicare and Medicaid Services Briefing: Accuracy of Cleared Blood
2017– Present	Glucose Monitor Systems. IEEE Engineering in Medicine and Biology (EMB) Society Healthcare Device Security Assurance Working Group for medical device cybersecurity standard P2721, which will be co-managed by IEEE and UL, Chair
2017– Present	DTMoSt (DTS Mobile Platform Controlling A Diabetes Device Security and Safety Standard, Steering Committee), Chair, with participation by FDA, DHS, FBI, NIST, NIH, NASA, USAF, US Army, US Navy, IEEE, and UL
2017–Present	Clinical and Laboratory Standards Institute, Subcommittee of Performance Metrics for Continuous Interstitial Glucose Monitoring, POCT5, Chair
2017–Present	Baylor College of Medicine Center for Space Medicine, Affuiliate Member
	UCSF Medical Device Security Committee, Member
2015-2017	JDRF T1D Outcomes Program - Advisory Committee, Member
2015	White House Health and Cybersecurity Roundtable. Member (Issues facing the
	healthcare sector and the challenges associated with bringing together large amounts
	of health information as envisioned in the Precision Medicine Initiative)
2015–Present	CMS Alliance to Modernize Healthcare (CAMH) sponsored by Centers for Medicare & Medicaid Services (CMS) and operated by The MITRE Corporation, Advisor.
2015–Present	American Association for Diabetes Educators, Technology Advisory Committee, Member
2015-2017	DTSec (DTS Cybersecurity Standard for Connected Devices Steering Committee), Chair, with participation by FDA, DHS, NIST, NIH, NASA, USAF, Health Canada, ADA, JDRF, TES, and AADE.
2015-2016	The Endocrine Society, Current Procedural Terminology (CPT) Advisor for Continuous Glucose Monitoring codes
2015–Present	University of Connecticut Center for the Development and Application of Biosensor- Based e-Health Technologies, Proposal Reviewer
2015-2017	American College of Cardiology Diabetes Collaborative Registry, Stakeholder Panel, Member
2014–Present	UCSF Diabetes Center, Team Member
2014-2018	DTS Surveillance Program for Cleared Blood Glucose Monitors, Chair (Participating organizations include ADA, JDRF, AADE, TES, CAP, and AACC)
2013	University of Arizona, Department of Surgery, Faculty Evaluator
2012-2016	Certified Diabetes Technology Clinician (C.D.T.C.) certification program, Planning Committee, and Examination Committee, Chair
2012	International Diabetes Center Panel on Optimizing Glucose Reporting, Analysis, and Clinical Decision Making in Type 1 Diabetes: the Ambulatory Glucose Profile (AGP), Member
2012-2016	American Diabetes Association Scientific Sessions Abstract Reviewer
2011–2014	FDA/Diabetes Technology Society/ADA/Endocrine Society/AAMI Error Grid Panel for Clinical Accuracy of Blood Glucose Monitors, Chair
2011	FDA, Draft Guidance - The Content of Investigational Device Exemption (IDE) and Premarket Approval (PMA) Applications for <i>Artificial Pancreas Device Systems</i> , Reviewer

2011	FDA, Draft Guidance - The Content of Investigational Device Exemption (IDE) and Premarket Approval (PMA) Applications for <i>Low Glucose Suspend (LGS)</i>
2011–2015	<i>Device Systems</i> , Reviewer Clinical and Laboratory Standards Institute, Consensus Committee on Point-of- Care Testing, Member.
2010–2011	Association for the Advancement of Artificial Intelligence (AAAI) Computational Physiology Spring Symposium, Program Committee
2010-2012	JDRF Clinical Recommendations Panel on Closed Loop Systems, Member
2010-2011	Drug Information Association (DIA), Medical Device Task Force
2010-2011	Pulmonary Health Task Working Group of US Army
2010 2011	Military Operational Medicine Research Program, Member
2010–2013	Oak Ridge National Laboratory, US Department of Energy, Oak Ridge, TN Medical Device Research Center, Advisor
2009-2016	NASA Exploration Medical Capabilities Standing Review Panel, Member
2009-2010	University of Pittsburgh Diabetes Institute, Planning Committee
2009–2010	Diabetes Mellitus Interagency Coordinating Committee Subgroup on
2007-2011	Resources and Infrastructure, Member
2009–2011	
2009-2011	Diabetes Mellitus Interagency Coordinating Committee Subgroup on Biogeneirog Technologies, Member
2007–2011	Bioengineering Technologies, Member Endocrine Society Continuous Glucose Monitor Guideline Task Force, Chair
2007–2011	
2007-2011	Clinical and Laboratory Standards Institute, Subcommittee of Methods
2007 - 2009	Comparison of Glucose Methodologies, POCT6, Member
2007-2009	Medical Officer, US Army Medical Research and Material Command (USAMRMC)
2006 2008	Telemedicine and Advanced Technology Research Center (TATRC)
2006 - 2008	Clinical and Laboratory Standards Institute, Subcommittee of Performance
2006	Metrics for Continuous Interstitial Glucose Monitoring, POCT5, Chair
2006	US Federal Trade Commission, Consultant
2004	New England Healthcare Institute, Cambridge, MA, Consultant
2004	NIH National Human Genome Research Institute, International
2004	Haplotype Map ("HapMap") Project, Advisor
2004	A1C Review Panel for Systematic Glycemic Control
2003-2017	National Space Biomedical Research Institute, Houston, TX, Board of Scientific Counselors
2003-2004	JDRFI of New York, NY, Technology Reimbursement Advisory Panel
2003-2004	American Diabetes Association Scientific Sessions Planning Committee
2003	UC San Diego, Department of Bioengineering, Faculty Evaluator
2002-2007	US Army Technologies for Metabolic Monitoring Steering Committee
2002-2010	American Diabetes Association Scientific Sessions Abstract Reviewer
2001–Present	Diabetes Technology Society, Founder and President
2001	HealthTech of San Francisco, CA, Consultant on Sensors for Monitoring and Artificial Organs
1999	Optical Society of America, Annual Meeting Committee
1995-2000	Diabetes Coalition of California, established by the California Department
	of Health Services
1994–2001	NIH Diabetes Prevention Trial - Type 1, Coordinator, Stanford University, Clinical Center, Northern San Mateo County Satellite Site

INTERNATIONAL

2017		International Diabetes Federation Meeting, Abstract Reviewer
2016		Tokyo University of Agriculture and Technology, Graduate School of Engineering,
		Visiting Professor and Global Innovation Research Organization, Member
2009-	Present	Scientific Council of the International Center of Biocybernetics of the Polish Academy
		of Sciences, Member
2008 -	2009	International Working Group on Self Monitoring of Blood Glucose, established by the
		International Diabetes Federation, Member

- 2008-2011 Coalition for Clinical Research, Self Monitoring of Blood Glucose, Chair
- 2005-2006 Diabetes Technology Society International Panel for Establishment of Performance Standards for Continuous Glucose Monitors, Chair
- 2004 European Society for Artificial Organs, Scientific Advisory Board, Member
- 1993-1994 International Chronic Fatigue Syndrome Study Group, established by
 - Centers for Disease Control and Prevention (CDC), Consultant

RESEARCH GRANT REVIEWER

National Institutes of Health (NIH),

- 1) Type 1 Diabetes Pathfinder Award (DP2), Member, 2016
- 2) Special Emphasis Panel on Artificial Pancreas, Small Business Innovation Research, Member, 2013
- 3) Special Emphasis Panel on Closed Loop Technologies, Member, 2013
- 4) Study Section on Small Business Innovation Research to Develop New Therapeutics and Monitoring Technologies for Type 1 Diabetes (T1D) Towards an Artificial Pancreas; Special Emphasis Panel, Member, 2012
- 5) Study Section on Diabetes, Metabolism, Nutrition and Obesity; Small Business Special Emphasis Panel (EMNR E10 B), Member, 2010
- 6) Grant Review Panel: The Cooperative Multicenter Research Network to Test Glucose Sensors in Children with Type 1 Diabetes, Member, 2001
- 7) Study Section on Biotechnology, Member, 1998

National Aeronautics & Space Administration (NASA)

- 8) Human Research Program Exploration Medical Capability Element Standing Review Panel, Member 2009 - present
 NSBRI Technology Development Panel, Chair, 2007- Present
- 10) International Clinical Research and Medical Technology Panel, **Chair**, 2004
- 11) Smart Medical Systems Panel, Chair, 2002 2007
- 12) Clinical Physiology Panel, Member, 2000
- 13) Study Section on Advanced Technology Development, Member, 1999
- 14) Office of Life and Microgravity Sciences and Applications, Mail Reviewer, 1998 and 2001

Centers for Disease Control and Prevention (CDC), Division of Laboratory Sciences

- 15) Special Emphasis Panel (SEP) RFA-DP-17-003: Natural Experiments of Policy and Built Environment Impact on Diabetes Risk, Member 2017
- 16) Study Section on Noninvasive Measurement of Micronutrients, **Chair**, 2000
- 17) Study Section on Detection and Monitoring of Diabetic Hypoglycemia, Member, 1999

Juvenile Diabetes Research Foundation (JDRF)

- 18) Strategic Research Agreement, Reviewer, 2016-2017
- 19) Industry Discovery and Development Partnerships Grant Reviewer, 2013
- 20) Panel on Glucose Control Training, Innovative & Strategic Research Agreement, Member. 2012
- 21) Panel on Glucose Control Training, Innovative & Strategic Research Agreement, Member, 2011
- 22) Panel on Glucose Control Training, Innovative & Strategic Research Agreement, Member, 2010
- 23) Study Section on Glucose Sensors, Chair, 2000
- 24) Study Section on Glucose Sensors, Member, 1999
- US Army
 - 25) Product Line Review, Diabetes and Chronic Disease: Filling the Gaps, 2010
 - 26) Product Line Review, Biomonitoring Technologies, 2009
 - 27) Product Line Review, Biomonitoring Technologies, 2008
 - 28) TATRC Proposal Review Board: Grant Reviewer, 2008

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- 29) Product Line Review, Chronic Diseases, 2007
- 30) SBIR Phase 1 of OSD04-DH02, Grant Review Panel, Member: Non-invasive Metabolic Monitoring, 2004
- 31) Technologies for Metabolic Monitoring, Grant Review Panel, 2002-2006
- 32) SBIR Phase 1 of OSD02-DH02, Grant Review Panel, Member: Non-invasive Transdermal Near Infrared Glucose Monitors, 2002

American Institute of Biological Sciences

33) Peer Reviewed Medical Research Program, Grant Reviewer, 2005

National Science Foundation (NSF)

34) Site visit team, Atlanta, for the Engineering Research Center at the Georgia Tech/Emory Center for Engineering Living Tissues, 2004

National Oceanic and Atomspheric Administration 35) Grant Reviuew for the Saltonstall-Kennedy Competitive Research Program, 2017

American Diabetes Association

36) Grant Review Program, Reviewer, 2013

37) Grant Review Program, Reviewer, 2012

Yale University Diabetes Research Center 38) Diabetes Grant Program, Reviewer, 2016

University of Michigan, Michigan Diabetes Research and Training Center,

39) Pilot Feasibility Grant Program, Grant Reviewer, 2013

40) Pilot Feasibility Grant Program, Grant Reviewer, 2011

- 41) Pancreatic Islet Encapsulation Pilot Program, Grant Reviewer, 2002
- Boston Area Diabetes Endocrinology Research Center 42) Pilot and Feasibility Grant program, Grant Reviewer, 2012

Kansas City Area Life Sciences Institute 43) Blue Cross and Blue Shield Outcomes Research, Grant Reviewer, 2018

Singapore Science & Engineering Research Council of the Agency for Science, 44) Research & Technology, Grant Reviewer, 2004

Hong Kong Special Administrative Region Government 45) Innovation and Technology Commission, Grant Reviewer, 2005

Belgium Industrial Research Fund, K.U. Leuven 46) Technology Transfer Program, Grant Reviewer, 2010

Canadian Mitacs Accelerate Research Program 47) Graduate Research Internship Program, Grant Reviewer, 2014

Norwegian Academy of Science and Letters 48) Centre of Advanced Study, Grant Reviewer, 2015

Diabetes UK

49) Intermediate Clinical Fellowship Grant Reviewer, 2016 50) Grant Reviewer, 2017

JOURNALS

2016 – Present	Journal of Precision Medicine – Editorial Board
2007 – Present	Diabetes, Metabolism and Heart (German) – Editorial Board
1999 – 2006	Diabetes Technology & Therapeutics, Founding Editor-in-Chief

TEACHING ACTIVITIES

2002 – Present	Attending Physician, Diabetes Clinic, UCSF; also 1981 – 1995. (Responsible for
	teaching students, house officers, and fellows about management of diabetes)
2015	Preceptor Metabolism & Nutrition, First Year Medical Students, UCSF
1998 – 1999	Preceptor for Nurse Practitioner Program, School of Nursing, UCSF
1994	Preceptor, Medicine 160.04, UCSF
1988 – 1990	Section Leader, Physiology 101, UCSF
1980 - 1982	Physical Diagnosis for Dentists, School of Dentistry, UCSF

MENTORING

- 2000– Present *Three college students who have been mentored at the MPMC Diabetes Research Institute have gone onto Medical School (UCSD), Dental School (Temple), and osteopath school (NYU).
- 2000 Present *Four college students who have been mentored at Diabetes Technology Society have gone on to Medical School (UCLA and UMass), Osteopathy School (Alabama College of Osteopathy), and Dental School (University of the Pacific).
- 2011- 2012 *A post-doctoral fellow, David Kerr, M.D., who was mentored at the MPMC Diabetes Research Institute went on to become Director of Diabetes Research and Innovation at the Sansum Diabetes Research Institute in Santa Barbara.
- 2000 Present *Two diabetes research nurses who were mentored at the MPMC Diabetes Research Institute have gone on to receive a CDE and one has received a CDTC certification.
- 2000 Present * Two-four letters of recommendation per year have successfully supported job promotions of national faculty members in diabetes research (not at UCSF); one letter of support each year has successfully supported receipt of permanent resident status for USCIS; a letter has successfully supported selection of a recipient of the ADA Physician-Clinician Award; and a letter has successfully supported selection of a recipient of the AIMBE Pierre Galletti Award (the top award of that organization).

PREVIOUS PROFESSIONAL POSITIONS AT UCSF

1999 – 2000	Director, Diabetes Symposium Series, UCSF (Planned agenda and selected speakers)
1996 – 1998	Co-Director, Diabetes Symposium Series, UCSF (Planned agenda and selected speakers)
1993 – 1995	Assistant Director, Diabetes Clinic, UCSF (In charge of Clinic - no Director present)
1992 - 1993	Acting Assistant Director, Diabetes Clinic, UCSF (In charge of Clinic - no Director present)
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- 1990 1995 Associate Clinical Professor, Department of Medicine, UCSF
- 1986 1990 Assistant Clinical Professor, Department of Medicine, UCSF
- 1981 1986 Clinical Instructor, Department of Medicine, UCSF
- 1981 Associate, Department of Medicine, UCSF
- 1980 1982 Consultant, School of Dentistry, UCSF
- 1979 1981 Consultant, Comprehensive Medical Clinic "A",
 - Department of General Internal Medicine, UCSF

PROFESSIONAL SOCIETIES

- 2007 Present Endocrine Society
- 2003 Present European Association for the Study of Diabetes
- 2001 Present Diabetes Technology Society, President
- 1981 Present American Diabetes Association
- 1981 Present San Mateo County Medical Society
- 1981 Present UCSF Faculty/Alumni Association

1974 – 1975 Associated Students UCSF School of Medicine, Student Body President

HOSPITAL STAFF PRIVILEGES

2017 - Present	Mills-Peninsula Medical Center – Burlingame and San Mateo, California
1996 – 2017	Mills-Peninsula Health Services – Burlingame and San Mateo, California
1981 – Present	UCSF Hospitals & Clinics - San Francisco, California
1981 – 1996	Peninsula Ĥospital - Burlingame, California
1981 – 1996	Mills Memorial Hospital - San Mateo, California
2002 - 2008	San Mateo County General Hospital
1981 - 2007	Seton Medical Center - Daly City, California

SCIENTIFIC MEETINGS ORGANIZED, INTERNATIONAL

European Society of Artificial Organs Congress, Warsaw, **Poland** How to prevent hypoglycemia, Co-Chair, 2016

Polish Academy of Sciences, International Centre of Biocybernetics, Seminar on Telecare of Diabetes, Warsaw, **Poland**, Co-Chair, 2009

Polish Academy of Sciences, International Centre of Biocybernetics, 69th Seminar on: Technical, biological and bio-technical approaches of the diabetes treatment. Recent development and perspectives. Warsaw, **Poland** Co-Chair and Co-Author of proceedings summary, 2003

SCIENTIFIC MEETINGS ORGANIZED, UNITED STATES

NIH/FDA/JDRF Artificial Pancreas Workshop, Bethesda, Maryland 2016, Co-Organizer

DTS Surveillance Program for Cleared Blood Glucose Monitors – Payers Meeting, Bethesda, Maryland, 2014 (Chair)

Verifying the Performance of Blood Glucose Monitors Following FDA Clearance, Bethesda, Maryland, 2013 (Chair)

DTS Performance of Blood Glucose Monitors Following FDA Approval, Arlington, Virginia, 2013 (Chair)

NIH/FDA/JDRF Artificial Pancreas Workshop, Bethesda, Maryland 2013 (Planning Committee)

AAMI / FDA Infusion Device Summit, Silver Spring, Maryland, 2010 Insulin Pump Safety and Security (Planning Committee)

NIH Workshop on Virtual Reality for Diabetes and Obesity, Bethesda, Maryland. 2010. (Planning Committee)

CDC Sticking With Safety Meeting, Atlanta, Georgia, 2010 (Planning Committee)

US Army Military Operational Medicine Research Program / Department of Defense, Pulmonary Health Working Group. Frederick, Maryland. 2010. (Chair)

Diabetes Translational Research Meeting for the US Air Force, Bethesda, Maryland. 2009. (Chair)

Personalized Medicine for Diabetes for the US Air Force, San Francisco, California. 2009. (Chair)

Diabetes Technology Society/FDA: Insulin Pump Safety Meeting, San Mateo, California 2009 (Chair) Insulin Pump Safety Meeting, Bethesda, Maryland. 2008. (Chair)

US Army Military Operational Medicine Research Program / Department of Defense Personal Physiological Monitoring and Predictive Modeling for the Warfighter Workshop. Frederick, Maryland. 2009. (Co-Chair)

US Army TATRC / Department of Defense Diabetes Coordination Meeting. Fort Detrick, Frederick, Maryland. 2008. (Co-Chair)

Diabetes Technology Society /CDC / NSBRI / UC Berkeley Department of Bioengineering / Georgia Tech/Emory Center for the Engineering of Living Tissues / Technologies for Metabolic Monitoring Joint Program (Chair)

Eighteenth Diabetes Technology Meeting, Bethesda, 2018 (pending) Seventeenth Diabetes Technology Meeting, Bethesda, 2017 Workshop on: *Reimbursement for Technology* Workshop on: Advances in Insulin Delivery Workshop on: Social Media for Diabetes: Communications and Advertising Workshop on: Developments in Glucose Monitoring Sixteenth Diabetes Technology Meeting, Bethesda, 2016 Workshop on: Implanted Sensors Workshop on: *Biomarkers for Disease* Workshop on: Coding, Coverage, Reimbursement, and Competitive Bidding Workshop on: Metrics for Diabetes Fifteenth Diabetes Technology Meeting, Bethesda, 2015 Workshop on: Investing in Diabetes Technology Workshop on: New Treatment Paradigms Workshop on: *Glucose Measurement Errors and Insulin Dosing Errors* Workshop on: A Reassessment of Markers of Glycemia Fourteenth Diabetes Technology Meeting, Bethesda, 2014 Workshop on: Reimbursement for Diabetes Technology Workshop on: Technology for Detection and Prevention of Hypoglycemia Workshop on: Regulatory Science; New Performance Guidances & the New Surveillance Error Grid Workshop on: Improving Adherence to Diabetes Technology Devices **Thirteenth Diabetes Technology Meeting**, San Francisco, 2013 Workshop on: Diabetes Technology – Save Lives and saves Money Workshop on: Blood Glucose Monitors and Continuous Glucose Monitors Workshop on: Standards for BG Monitors and Counterfeit BG Strips Workshop on: Pens, Pumps, and Other Insulin Delivery Technologies Twelfth Diabetes Technology Meeting, Bethesda, 2012 Workshop on: Overcoming Barriers to Adoption of Diabetes Technology Workshop on: The Sensor-Tissue Interface Workshop on: Bolus Calculators Workshop on: *Glycemic Variability* Eleventh Diabetes Technology Meeting, San Francisco, 2011 Workshop on: Investment Opportunities in Diabetes Technology Workshop on: Physiology of Interstitial Fluid Related to Implanted Sensors Workshop on: New Developments in Blood Glucose Monitoring Workshop on: *Hospital Technology* **Tenth Diabetes Technology Meeting,** Bethesda, 2010 Workshop on: The New Bundled World: Monitoring Diabetes Following Hospital Discharge Workshop on: Continuous Glucose Monitoring Workshop on: New Ideas in Blood Glucose Monitoring

Workshop on: Safety and Security Issues for Insulin Pump Therapy Ninth Diabetes Technology Meeting, San Francisco, 2009 Workshop on: Investment Opportunities in Diabetes Technology Workshop on: Laboratory and Clinical Aspects of Hemoglobin Alc Workshop on: SMBG: Data Management and Decision Support Workshop on: Future Drugs for Diabetes **Eighth Diabetes Technology Meeting**, Bethesda, 2008 Workshop on: Intellectual Property in Diabetes Workshop on: Noninvasive Glucose Monitoring Workshop on: Data Management for SMBG Workshop on: *Measuring the Effects of Diet and Exercise* Seventh Diabetes Technology Meeting, San Francisco, 2007 Workshop on: *Investment Opportunities in Diabetes Technology* Workshop on: Noninvasive Glucose Monitoring Workshop on: *Glycemic Variability* Workshop on: *Hospital Management of Diabetes* Sixth Diabetes Technology Meeting, Atlanta, 2006 Workshop on: Reimbursement Strategies for Diabetes Technologies Workshop on: *Physiology of Interstitial Fluid* Workshop on: Databases and Diabetes Fifth Diabetes Technology Meeting, San Francisco, 2005 International Workshop for Establishment of Performance Standards for Continuous Glucose Monitors Workshop on: Business and Diabetes Workshop on: Technology for Weight Mgmt in T2DM and Obesity Fourth Diabetes Technology Meeting, Philadelphia, 2004 Workshop on: Reimbursement Strategies for Diabetes Technologies Workshop on: Defining Accuracy in Blood Glucose Monitors Workshop on: Treatment of Diabetes and Its Complications Third Diabetes Technology Meeting, San Francisco, 2003 Workshop on: Connectivity Standards Utilizing Computers for Analyzing Data from Blood Glucose Monitors and Insulin Delivery Systems Workshop on: Use of Technology for Clinical Practice Second Diabetes Technology Meeting, Atlanta, 2002 Workshop on: New Therapy for Diabetes Workshop on: Calibration of Continuous Glucose Sensors **Diabetes Technology Society**

Thirteenth Clinical Diabetes Technology Meeting, Houston, Texas, 2017 Twelfth Clinical Diabetes Technology Meeting, San Diego, California 2016 Eleventh Clinical Diabetes Technology Meeting, Orlando, Florida, 2015 Tenth Clinical Diabetes Technology Meeting, Los Angeles, California, 2014 Ninth Clinical Diabetes Technology Meeting, Los Angeles, California 2012 Eighth Clinical Diabetes Technology Meeting, Los Angeles, California 2012 Seventh Clinical Diabetes Technology Meeting, Philadelphia, Pennsylvania 2011 Sixth Clinical Diabetes Technology Meeting, San Antonio, Texas 2010 Fifth Clinical Diabetes Technology Meeting, Long Beach, California 2009 Fourth Clinical Diabetes Technology Meeting, Orlando, Florida 2008 Third Clinical Diabetes Technology Meeting, San Diego, California 2007 Second Clinical Diabetes Technology Meeting, Boston, Massachusetts 2006 First Clinical Diabetes Technology Meeting, San Francisco California, 2005

Second European Clinical Diabetes Technology Meeting, Copenhagen, Denmark, 2014 First European Clinical Diabetes Technology Meeting, Frankfurt, Germany, 2013

Sixth International Hospital Diabetes Meeting, Atlanta, Georgia 2017

Fifth International Hospital Diabetes Meeting, San Francisco, California 2015 Fourth International Hospital Diabetes Meeting, Arlington, Virginia, 2014 Third International Hospital Diabetes Meeting, Cambridge, Massachusetts, 2012 Second International Hospital Diabetes Meeting, Barcelona, Spain, 2011 First International Hospital Diabetes Meeting, San Diego, 2010

2nd **MEDSec Meeting: The Medical Internet of Thing**s, San Jose, California, 2017 1st **MEDSec Meeting: The Medical Internet of Thing**s, San Jose, California 2016

Second Digital Diabetes Congress, San Francisco, California, 2018 (pending) First Digital Diabetes Congress, San Francisco, California 2017

ADA/UCSF/Mills-Peninsula Health Services: The Sixteenth Northern California Diabetes Symposium, San Francisco, 2002

Mills-Peninsula / CDC / NASA / Juvenile Diabetes Research Foundation International / UC Berkeley Department of Bioengineering: **The First Diabetes Technology Meeting**, San Francisco, California, 2001

Juvenile Diabetes Research Foundation International / NASA: *The Bioartificial Pancreas*, Arlington, Virginia, 2001

MODERATOR AT MEETINGS, INTERNATIONAL

- 2017 ATTD 10th International Conference on Advanced Technologies & Treatments for Diabetes Paris, **France**. *Cybersecurity of Medical Devices (Diabetes and Artificial Pancreas)*
- 2016 ATTD 9th International Conference on Advanced Technologies & Treatments for Diabetes Milan, **Italy**. *Is It Time to Move to Time in Range as the Main Glycemic Control Measure?*
- 2015 International Diabetes Federation / World Diabetes Congress. Vancouver, **Canada** *Computational Approaches to Diabetes*
- 2015 ATTD 8th International Conference on Advanced Technologies & Treatments for Diabetes Paris, **France**. *Regulation of Diabetes Devices*
- 2014 European Association for the Study of Diabetes, 50th Annual Meeting. Vienna, **Austria** Symposium on *Use of the InsuPad*[™] *for rapid Insulin Delivery*
- 2013 European Association for the Study of Diabetes, 49th Annual Meeting. Barcelona, **Spain** Symposium on *InsuPad*TM - *Improvement of Insulin Therapy* − *a new Option*.
- 2013 ATTD 6th International Conference on Advanced Technologies & Treatments for Diabetes Paris, **France**. *Continuous Glucose Monitoring*.
- 2008 International Diabetes Federation (IDF) Global SMBG Workshop, Amsterdam, Holland Self Monitoring of Blood Glucose in Diabetes: Appraisal of Available Data and Defining Perspectives. *Other Trial Data*
- 2004 European Association for the Study of Diabetes (EASD), 40th Annual Meeting. Munich, **Germany**. *Alternate Routes of Insulin Delivery Poster Session Discussion Leader*

MODERATOR AT MEETINGS, UNITED STATES

American Diabetes Association

- 2016 American Diabetes Association, 76rd Scientific Sessions, New Orleans Guided Audio Poster Tour. *Glucose Sensing Helps*
- 2013 American Diabetes Association, 73rd Scientific Sessions, Chicago Guided Audio Poster Tour *Blood Glucose Monitoring*
- 2004 American Diabetes Association, 64th Scientific Sessions, Orlando *Pharmacologic Treatment of Type 2 Diabetes Controversies in Glucose Monitoring*
- 2003 American Diabetes Association, 63rd Scientific Sessions, New Orleans Pulmonary Delivery of Insulin GI complications of diabetes

Diabetes Technology Society

- 2017 1st Digital Diabetes Congress, San Francisco, California *Cybersecurity and Privacy*
- 2017 2nd MEDSec Meeting: Regulatory Aspects of Cybersecurity, San Jose, California Regulatory Aspects of Cybersecurity
- 2016 1st MEDSec Meeting: The Medical Internet of Things, San Jose, California Policy, Standards, and Privacy
- 2017 17th Diabetes Technology Meeting, Bethesda, Maryland *The Diabetes Technology Society Surveillance of Cleared Blood Glucose Monitor Systems Project*
- 2016 16th Diabetes Technology Meeting, Bethesda, Maryland *Regulatory Topics in Diabetes Technology*
- 2015 15th Diabetes Technology Meeting, Bethesda, Maryland Cybersecurity for Connected Diabetes Devices
- 2014 14th Diabetes Technology Meeting, Bethesda, Maryland Performance of Cleared Blood Glucose Monitors; What is Needed?
- 2014 FDA Public Workshop Regulatory Science Considerations for Software Used in Diabetes Management, Silver Spring, Maryland. *Insulin Bolus Calculators*
- 2013 IEEE Conference on Body Sensor Networks Meeting, Cambridge, Massachusetts, Sensors
- 2016 NIH/FDA Fourth Artificial Pancreas Workshop, Bethesda, Maryland: Testing and Adoption of Current and Emerging Technologies Interoperability, Data Management, and Cybersecurity
- 2013 NIH/FDA/JDRF Artificial Pancreas Workshop, Bethesda, Maryland. Learning Algorithms with More Inputs and Fault Detection
- 2012 FDA Workshop on Clinical Study Design and Performance of Hospital Glucose Sensors. Silver Spring, Maryland *What accuracy is needed to ensure a safe and effective device?*
- 2010 FDA/NIH Workshop: Innovations in Technology for the Treatment of Diabetes: Clinical Development of the Artificial Pancreas (an Autonomous System). Gaithersburg, Maryland *Clinical Expectations for Artificial Pancreas Device Systems*
- 2010 CDC: Sticking With Safety Meeting, Atlanta, Georgia Industry Panel
- 2008 FDA / NIH / JDRF Workshop: Towards an Artificial Pancreas, Bethesda, Maryland Beyond Insulin-dependent Diabetes Mellitus

DAVID C. KLONOFF, MD, FACP, FRCP (Edin), Fellow AIMBE

1998 Non/Minimally Invasive Measurement of Physiological Analytes Technology Workshop organized by the National Aeronautics and Space Administration (NASA) and the Juvenile Diabetes Foundation (JDF), Arlington, Virginia: Session on Minimally Invasive Sensing

RECENT PRESENTATIONS, INTERNATIONAL

- 2016 Tokyo University of Agriculture and Technology, Tokyo, **Japan**. Overcoming barriers to the artificial pancreas
- 2016 Tokyo University, Tokyo, **Japan**. Overcoming barriers to the artificial pancreas
- 2016 Kyoto Medical Center, Kyoto, **Japan**. *Overcoming barriers to the artificial pancreas*
- 2015 World Diabetes Congress of the International Diabetes Federation, Vancouver, **Canada**. *New insulins and insulin-delivery technologies for closed-loop systems.*

European Association for the Study of Diabetes

- 2018 54th Annual Meeting, Berlin, **Germany** Use of digital health to increase adherence to treatments (pending)
- 2005 41st Annual Meeting, Athens, **Greece** Satellite Session, *Overview of the Technology and Research on Continuous Glucose Monitors*
- 2004 40th Annual Meeting, Munich, **Germany** *New Technologies for Glucose Sensing and Insulin Delivery* Satellite Session, *Continuous Glucose Monitoring*
- 2002 38th Annual Meeting, Budapest, **Hungary** Satellite Session, "Continuous Glucose Monitoring: Clinical Usefulness of the Microdialysis Technique and Other Glucose Sensors" Closed Loop Systems – How Long is the Road?

Advanced Technologies & Treatments for Diabetes

2018	11 th International Conference. Vienna, Austria
	Trends in Digital Health for Diabetes
	Efficacy and safety of continuous subcutaneous insulin infusion of Faster Aspart compared
	with Insulin Aspart in type 1 diabetes
2017	10 th International Conference. Paris, France .

- Cybersecurity of medical devices (Diabetes and Artificial Pancreas)
- 2016 9th International Conference. Milan, Italy. *Ease of use of the new insulin glargine 300 U/ml pen injector in insulin-naïve people with type 2 diabetes.*2015 8th International Conference. Paris, France.
- 2015 8th International Conference. Paris, France. Regulation of diabetes technology in the US Short, medium, and long term markers of glycemia
 2014 7th International Conference Winner American
- 2014 7th International Conference. Vienna, **Austria**. Simplifying life with diabetes: Data as servant and not master

Diabetes Technology Society

- 2014 2nd Annual European Clinical Diabetes Technology Meeting, Copenhagen, **Denmark**. Blood glucose monitoring: technology and clinical need
- 2013 1st Annual European Clinical Diabetes Technology Meeting, Frankfurt, **Germany**. *Performance of marketed blood glucose monitors following clearance*
- 2013 Visiting Lecturer Series, Update on Diabetes Technology, 2013

Diabetes Medical Center, Tel Aviv, Israel.

- 2012 Indo-US International Symposium on Pancreas Focusing on the Exocrine and Endocrine Aspects. DMDSC and MDRF Gold Medal Oration, Chennai, **India**. *Advances in Glucose Monitoring and Insulin Delivery*
- 2011 Second International Hospital Diabetes Meeting, Barcelona, **Spain**. Safe Assisted Monitoring of Blood Glucose Practices in the Hospital
- 2010 European Union, Life Sciences Circle, European Parliament, Brussels, **Belgium** Self Monitoring of Blood Glucose Empowers Patients with Diabetes to Achieve Improved Blood Glucose Levels
- 2009 Telecare of Diabetes, Polish Academy of Sciences, Warsaw, **Poland** *Trends in Diabetes Telemedicine*
- 2008 Biocentrum Ochota Consortium, Polish Academy of Sciences, Warsaw, **Poland** *Diabetes Science and Technology*
- 2008 International Working Group SMBG, Amsterdam, Holland Critical Assessment of Available Evidence on SMBG Utilization
- 2008 International Working Group SMBG, Rome, **Italy** Activities of the Coalition for Clinical Research SMBG
- 2007 Jagiellonian University, Clinical Chemistry Rounds, Krakow, **Poland** New Bioengineered Devices for Diabetes
- 2014 Institute of Biocybernetics and Biomedical Engineering, Special Lecture, Warsaw, **Poland** *The Artificial Pancreas*
- 2007 Institute of Biocybernetics and Biomedical Engineering, Special Lecture, Warsaw, **Poland** *New Bioengineered Devices for Diabetes*
- 2006 World Congress on Medical Physics and Biomedical Engineering, Seoul, Korea *The Artificial Pancreas: a Cure for Diabetes?*
- 2005 University of Cambridge Addenbrooke Hospital, Department of Pediatrics Seminar, Cambridge, **England**, *New Technologies for Insulin Delivery*
- 2004 European Society for Artificial Organs, Warsaw, Poland, The Artificial Pancreas
- 2003 Polish Academy of Sciences 69th Seminar of the International Centre of Biocybernetics, Warsaw, **Poland**, *Future Perspectives for Bio and Techno Support of the Diabetes Treatment*

RECENT PRESENTATIONS, UNITED STATES

US Food & Drug Administration (FDA)

- 2016 NIH/FDA Fourth Artificial Pancreas Workshop, Bethesda, Maryland: Testing and Adoption of Current and Emerging Technologies *Cybersecurity Considerations for an Integrated System*
- 2013 NIH/FDA Workshop on Innovation Towards an Artificial Pancreas, Bethesda, Maryland *mHealth*
- 2012 FDA Workshop on Clinical Study Design and Performance of Hospital Glucose Sensors. Silver Spring, Maryland

2010	Performance expectations for hospital glucose sensors FDA/NIH Workshop: Innovations in Technology for the Treatment of Diabetes:
	Clinical Development of the Artificial Pancreas (an Autonomous System). Gaithersburg, Maryland
	Low Glucose Suspend Systems The Artificial Pancreas
2010	FDA/CDRH Public Workshop: Identifying Unmet Public Health Needs and Facilitating Innovation in Medical Device Development, Gaithersburg, Maryland: Standards & Interoperability for Better Diabetes Technology
2010	FDA/CDRH Public Meeting: Blood Glucose Meters, Gaithersburg, Maryland: Panel discussion on accuracy and presentation on <i>Where do we go from here?</i>
2009	Office of In Vitro Devices (OIVD) Special Seminar, Silver Spring, Maryland: Diabetes Technology
2008	Towards an Artificial Pancreas Workshop, Bethesda, Maryland
2007	Compatibility of an Artificial Pancreas with Other Devices Artificial Pancreas Working Group, Rockville, Maryland, The Artificial Pancreas
2007	11 th FDA Science Forum, Washington, D.C.
2003	Novel technologies for delivering insulin and other peptide drugs Workshop on Innovative Systems for Delivery of Drugs and Biologics:
2003	Scientific, Clinical, and Regulatory Challenges, Bethesda, Maryland
	Novel technologies for treatment of diabetes: metabolic monitoring, the
2003	artificial pancreas, and alternate routes for administering insulin Office of Science and Technology (OST) Special Seminar, Rockville, Maryland:
2003	New technologies for managing diabetes
2002	Center for Devices and Radiological Health (CDRH),
	Office of Device Evaluation (ODE) Special Seminar, Rockville, Maryland: Advances in diabetes technology
	FDA, Department of Homeland Security, Department of Health and Human Services,
2016	and the National Healthcare Information Sharing and Analysis Center
2010	2nd Public Workshop on Collaborative Approaches for Medical Device and Healthcare Cybersecurity. Silver Spring, Maryland. 2016
	DTSec (Diabetes Technology Society Cybersecurity Standard for Connected Devices)
2000	US Army Telemedicine and Advanced Technology Research Center
2008	TATRC / Department of Defense Diabetes Coordination Meeting. Diabetes Technology Research, Frederick, Maryland
2007	Developing an Interdisciplinary Institute for Emerging Health Technologies.
2007	(Keynote) <i>Treatment of Diabetes in 2030</i> . Honolulu, Hawaii Nanotechnology Solutions for Long-term Implantable Devices, Houston, Texas
2007	The Need for Implantable Glucose Sensors
2007	Partnering to Enable Technology: From Basic Research to Deployment / 15 th Annual Medicine
	Meets Virtual Reality, Long Beach, California (Keynote) Technology to Treat Hyperglycemia in Trauma Patients
	US Army Research Institute of Environmental Medicine
2009	Seminar on Military Nutrition. Natick, Massachusetts
	New Technologies for Metabolic Monitoring
	New reenhologies for melabolic monitoring
	US Army Technologies for Metabolic Monitoring Program
2004	
	US Army Technologies for Metabolic Monitoring Program Current Progress and Future Directions, Philadelphia, Pennsylvania: <i>Military and</i> <i>industrial activities: The diabetes need for metabolic monitoring: technologies that</i> <i>are currently available and what the future might hold</i>
2004 2002	 US Army Technologies for Metabolic Monitoring Program Current Progress and Future Directions, Philadelphia, Pennsylvania: Military and industrial activities: The diabetes need for metabolic monitoring: technologies that are currently available and what the future might hold The Future of Metabolic Monitoring of Glucose: Identifying Complementary Measurable
	US Army Technologies for Metabolic Monitoring Program Current Progress and Future Directions, Philadelphia, Pennsylvania: <i>Military and</i> <i>industrial activities: The diabetes need for metabolic monitoring: technologies that</i> <i>are currently available and what the future might hold</i>

Centers for Disease Control and Prevention (CDC)National Diabetes Laboratory, Seminar, Atlanta, Georgia:2005Continuous Glucose Monitoring2004New technologies for measuring glucose and delivering insulin2001Bioartificial pancreas1999Noninvasive and minimally invasive blood glucose monitoring	
 2005 Continuous Glucose Monitoring 2004 New technologies for measuring glucose and delivering insulin 2001 Bioartificial pancreas 1999 Noninvasive and minimally invasive blood glucose monitoring 	
 2004 New technologies for measuring glucose and delivering insulin 2001 Bioartificial pancreas 1999 Noninvasive and minimally invasive blood glucose monitoring 	
 2001 Bioartificial pancreas 1999 Noninvasive and minimally invasive blood glucose monitoring 	
1999 Noninvasive and minimally invasive blood glucose monitoring	
1999 Inhaled insulin	
American Diabetes Association	
2018 78 th Scientific Sessions, Orlando, Florida (pending)	
Session on Online and Mobile Support - Wading Through the Noise.	
Building Cybersecurity into Connected Diabetes Devices	
2016 76th Scientific Sessions, New Orleans, Louisiana.	
Management of Hyperglycemia in the Hospitalized Patient (State-of-the-Art L	ecture):
The Future of Technology in the Management of Inpatient Diabetes.	
The PRIDE Group:	
Continuous Glucose Monitoring in the Hospital	D1 1
2014 74 th Scientific Sessions, San Francisco, California, Joint Session with AACC on	Blood
Glucose Monitoring: 21 st Century Issues. The New Error Grid: Rationale, Devand Clinical Value	elopmeni,
2014 74th Scientific Sessions, San Francisco, California. Symposium on Closed-Loop	Inculin
Delivery—One Step at a Time, <i>Do We Need More Rapid Acting Insulins?</i>	msum
2013 73 rd Scientific Sessions, Chicago, Illinois, Poster Tour Leader, <i>Glucose Monitorin</i>	10
2011 71 st Scientific Sessions, San Diego, California, Session on Technology in Clinica	Practice:
Help or Hindrance. Insulin Pumps and Continuous Glucose Monitors	
2005 65 th Scientific Sessions, San Diego, California, Symposium on Molecular Medici	ne
The Artificial Pancreas	
2002 62 nd Scientific Sessions, San Francisco, California, Session on Glucose Monitorin	ıg
and Sensing, New Technology for Glucose Monitoring and Sensing	
2001 61 st Scientific Sessions, Philadelphia, Pennsylvania, Session on Glucose Monitor	ng:
The future of noninvasive glucose monitoring	
2001 Regional Postgraduate Course, Los Angeles, California: <i>Glucose sensors</i>	
Diabetes Technology Society	
2017 13 th Clinical Diabetes Technology Meeting, Houston, Texas	
Blood Glucose Monitoring Technology	
2016 12 th Clinical Diabetes Technology Meeting, San Diego, Florida	
Blood Glucose Monitoring Technology	
2015 11 th Clinical Diabetes Technology Meeting, Orlando, Florida	
Blood Glucose Monitoring Technology	
2015 11 th Clinical Diabetes Technology Meeting, Orlando, Florida	
Continuous Glucose Monitoring Technology	
2014 14 th Diabetes Technology Meeting, Bethesda, Maryland	
The New Surveillance Error Grid	
2013 13 th Diabetes Technology Meeting, San Francisco, California	
2013 <i>9</i> th Clinical Diabetes Technology Meeting, Atlanta, Georgia	
2013 9 th Clinical Diabetes Technology Meeting, Atlanta, Georgia Blood Glucose Monitoring: Past, Present, and Future	
2011 12 th Diabetes Technology Meeting, Bethesda, Maryland	

- 2012 3rd International Hospital Diabetes Meeting, Cambridge, Massachusetts Assisted Monitoring of Blood Glucose
- 2011 2nd International Hospital Diabetes Meeting, Barcelona, Spain Assisted Monitoring of Blood Glucose
- 2011 11th Diabetes Technology Meeting, San Francisco, California The Role of SMBG in Non-Insulin Treated Type 2 Diabetes
- 2010 6th Clinical Diabetes Technology Meeting, San Antonio, Texas Is Self Monitoring of Blood Glucose Clinically Useful?
- 2009 5th Clinical Diabetes Technology Meeting, Long Beach, California *The Coalition for Clinical Research-SMBG*
- 2008 8th Diabetes Technology Meeting, Bethesda, Maryland *The Coalition for Clinical Research-SMBG*
- 2006 2nd Clinical Diabetes Technology Meeting, Boston, Massachusetts Benefits and Limitations of Intermittent BG, A1C, and Ketone Testing
- 2005 1st Clinical Diabetes Technology Meeting, San Francisco, California *Continuous Glucose Monitoring*

Endocrine Society

- 2017 Endo 2017. Meet the Professor: Sensors and Pumps, Orlando, Florida
- 2013 Endo 2013. Novel Sensor Technologies, San Francisco, California
- 2012 Endo 2012. *Continuous Glucose Monitoring*; Houston, Texas
- 2010 Endo 2010. Forum: Application of Technology to Improve Diabetes Care -Navigating the Labyrinth: *Update on SMBG;* San Diego, California

American Association of Clinical Endocrinologists

- 2016 *The Power of continuous glucose monitoring*, Atlanta, Georgia Georgia regional AACE Meeting
- 2014 Consensus Conference on Glucose Monitoring, Washington, DC The DTS Surveillance Program for Cleared Blood Glucose Monitors

American Association of Diabetes Educators

- 2018 *How secure are diabetes devices?* Baltimore, Maryland (pending)
- 2017 *The Importance of Accuracy,* Indianapolis, Indiana
- 2016 Diabetes Technologies and Devices: from Accuracy to Cybersecurity, San Diego, California
- 2013 *Glucose Monitoring*, Philadelphia, Pennsylvania
- 2012 Publication Partnership: Meet the Editors, Indianapolis, Indiana
- 2018 **Biosensors 2018**. 28th Aniversary, World Congress on Biosensors (Pending) Continuous Monitoring of Glucose for Diabetes. Miami, Florida, (Plenary)
- 2014 American Association for Clinical Chemistry Joint Session with American Diabetes Association on Blood Glucose Monitoring: 21st Century Issues. *The New Error Grid: Rationale, Development, and Clinical Value.* Chicago, Illinois.
- 2017 **Medical Device Innovation, Safety and Security Consortium (MDISS)** (pending) Fall Congress: Cybersecurity for Diabetes Devices, Arlington, Virginia (keynote)
- 2017 **Great Plains Pediatric Endocrine Symposium** Continuous Glucose Monitoring, Kansas City, Missouri (pending)
- 2016 **Precision Medicine Meeting** Panel on New Technologies, San Diego, California
- 2012 DFCon 2012 Global Diabetic Foot Conference

Missing Links: Crossing the Great Rift with Next Generation Home Monitoring (Lessons from the Diabetes Technology Society), Hollywood, California

2012 Arizona State University, Tempe Arizona

Bioengineering seminar, Technology for Glucose Monitoring and Insulin Delivery

2011 **Commercializing Companion Diagnostics Conference** *Role of Companion Diagnostics in Diabetes Drug Development, Millbrae, California*

IEEE Conference on Body Sensor Networks Meeting

- 2016 Wearable sensors as game changers in chronic disease management: achieving physiological homeostasis in diabetes Body Sensors Network, 2016, San Francisco, California
- 2013 Continuous glucose sensors, mHealth Body Sensors Network, 2013 Cambridge, Massachusetts
- 2011 American Association for Artificial Intelligence Smart Sensors for Maintaining Homeostasis (Keynote Address), Palo Alto, California

2009 University of Pittsburgh

Working Toward a National Model for Diabetes, Pittsburgh, Pennsylvania

2009 Printed Electronics USA 2009

Diabetes Applications for Printed Electronics, San Jose, California

2005 **The Children's Diabetes Foundation at Denver / University of Colorado** Practical Ways to Achieve Targets in Diabetes Care, Keystone, Colorado *Hypoglycemia and alternate site testing Glucose sensors in achieving target A1C*

2003 American Society of Clinical Pathology Teleconference #2894: *Emerging assays in diabetes*. Headquarters: Chicago, Illinois

- 2018 **Professional Liability Underwriting Society Cyber Symposium** The Internet of Things, Chicago, Illinois (pending)
- 2003 Walter Reed Army Medical Center / USUHS, Washington, DC Endocrinology Grand Rounds, *New technologies for managing diabetes*

University of California

2018 Systemwide IT Summit. Cybersecurity of Medical Devices. Santa Cruz, California (pending)

University of California at Berkeley,

- 2016 Electrical Engineering Seminar: *Wearable and Implantable Sensors for Diabetes* Bioengineering 24: "Aspects of Bioengineering"
- 2007 Bioengineering Research Opportunities in Diabetes
- 2004 Bioengineering Research Opportunities in Diabetes
- Bioengineering 24: "Biocomputing, Bio-Informatics, and Genomics"
- 2001 Bioengineering Research Opportunities in Diabetes *Received highest evaluation of all course faculty

UC San Francisco

- 2017 IT Conference, Cybersecurity and Standards for Connected Diabetes Devices
- 2016 National Cyber Security Awareness Month: *Cybersecurity for Connected Medical Devices*
- 2014 Postgraduate Course on Endocrinology, San Francisco, California

Artificial Pancreas

- 2013 Endocrinology Rounds, Advances in Glucose Monitoring and Insulin Delivery
- 2013 Library Rounds, Publishing Insider Hints & Tips
- 2003 Endocrinology Grand Rounds, New Technologies for managing Diabetes

Stanford University,

- 2017 Information Technology Department, Stanford Health. *The Need for Common Hospital* Device Cybersecurity Requirements
- 2016 SystemX Seminar, Engineered Technologies to Monitor and Treat Diabetes
- 2016 Electrical Engineering Journal Club, Wearable and Implantable Sensors for Diabetes

UC San Diego,

- 2003 Endocrinology Grand Rounds, New Technologies for Managing Diabetes
- 2001 Department of Bioengineering, Glucose Monitoring and Control Meeting, Hazards of Hypoglycemia
- 2002 Harvard Medical School / Joslin Diabetes Center, Boston, Massachusetts Longwood Area Diabetes/Metabolism Clinical Conference, New Technologies for Measuring Blood Glucose

Georgia Institute of Technology, Atlanta, Georgia 2011 Bioengineering Seminar: *The Artificial Pancreas* 2002 Bioengineering Seminar: *New Technology for Glucose Monitoring and Sensing*

- 2001 **Juvenile Diabetes Research Foundation International / NASA**: The Bioartificial Pancreas, Arlington, Virginia: *Overview of the Bioartificial Pancreas*
- 2001 American Society of Transplant Surgeons and the American Society of Transplantation Transplant 2001, The Second Annual Joint Transplant Meeting of the, Chicago, Illinois: Session on Bioartificial Organs: *Bioartificial pancreas*
- 2015 **Palo Alto Medical Foundation**, San Carlos California Special Seminar for the Korean Hospital Association: *Innovations in Telemedicine Care for Diabetes*

Additional presentations at UCSF, Stanford, UC Davis, UCLA, Northwestern, Tulane, LSU, Albert Einstein, UMD New Jersey, and Emory medical schools, at NIH, the FDA, and the MIT Department of Chemical Engineering prior to 2000.

PATENTS

Sterling B, Hartstein P. Li K, Agostino M, **Klonoff D,** Gaffney R, Zheng P, Gable J, Witte K, Smith H, Sheill J, Munrow M, Hall WD, Goldberger D, Fennell MJ, Cortella JM, Braig JR, Rule, P. (Patent Application 20030090649). <u>*Reagent-less whole-blood glucose meter.*</u> Filed January 21, 2002.

Rule P, Braig J, Hartstein P. Smith H, **Klonoff D**. (Patent Application 20030175806). <u>Method and</u> apparatus for improving the accuracy of alternative site analyte concentration measurements. Filed November 21, 2002.

BIBLIOGRAPHY

Publications – Journals

1) Mohsenifar Z., **Klonoff D.**, Cassan S.: Proprionobacterium acnes pneumonia in a patient with lymphoma. Infection. 1979; 7:146-148.

- 2) Klonoff D.C.: Macroamylasemia and other immunoglobulin-complexed enzyme disorders. West. J. Med. 1980; 133:392-407.
- 3) **Klonoff D.C.**, Karam JH: Diabetes mellitus and risk of skeletal fracture. N. Engl. J. Med. 1981; 304:115.
- 4) Kahn DG, Garfinkle JM, **Klonoff D.C.**, Pembrook LJ, Morrow DJ: Cryptosporidial and cytomegaloviral hepatitis and cholecystitis. Arch. Pathol. Lab. Med. 1987; 111:879-881.
- 5) **Klonoff D.C.**: Association of hyperinsulinemia with chlorpropamide toxicity. Am. J. Med. 1988; 84:33-37.
- 6) **Klonoff D.C.**, Andrews BT, Obana WG: Stroke associated with cocaine use. Arch. Neurol. 1989; 45:989-993.
- 7) Klonoff D.C., Kahn DG, Rosenzweig W, Wilson CB: Hyperprolactinemia in a patient with a pituitary and an ovarian dermoid tumor: Case report. Neurosurgery. 1990; 26:335-339.
- 8) **Klonoff D.C.**, Jurow AH: Acute water intoxication as a complication of urine drug testing in the workplace. JAMA. 1991; 265:84-85.
- 9) **Klonoff D.C.**, Jurow AH: Urine drug testing, water intoxication, and anticholinergic medication. JAMA. 1991; 265:2672.
- Demeure MJ, Klonoff D.C., Karam JH, Duh Q-Y., Clark OH: Insulinoma associated with multiple endocrine neoplasia Type 1: the need for a different approach. Surgery. 1991; 110:998-1005.
- 11) Klonoff D.C.: Chronic fatigue syndrome. Clin. Infect. Dis. 1992; 15:812-823.
- 12) Klonoff D.C., Wiskocil RL: Inappropriate drug prescribing. JAMA. 1995; 273:456-457.
- 13) **Klonoff D.C.**, Barrett BJ, Nolte MS, Cohen RM, Wyderski, R.: Hypoglycemia following inadvertent and factitious sulfonylurea overdosages. Diabetes Care. 1995; 18:563-567.
- 14) **Klonoff D.C.**: The Diabetes Coalition of California. Calif. J. Health-Syst. Pharm. 1995; 7:4.
- 15) **Klonoff D.C.**: Neurally mediated hypotension and chronic fatigue syndrome. JAMA. 1996; 275:359-360.
- 16) Klonoff D.C.: Noninvasive blood glucose monitoring. Diabetes Care. 1997; 20:433-437.
- 17) **Klonoff D.C.**: In the pipeline: noninvasive blood glucose monitoring. Clinical Diabetes. 1998; 17:43-45.
- 18) Klonoff D.C., Braig, J., Sterling, B., Kramer, C., Goldberger, D., Trebino, R.: Mid-infrared spectroscopy for noninvasive blood glucose monitoring. IEEE Lasers and Electro-Optics Society Newsletter. 1998; 12:13-14.
- 19) **Klonoff D.C.**: Welcome to Diabetes Technology & Therapeutics. Diabetes Technology & Therapeutics. 1999; 1:1-2.
- 20) Arnold MA, **Klonoff D.C**.: Noninvasive laser measurement of blood glucose a bright idea or an optical illusion? Diabetes Technology & Therapeutics. 1999; 1:401-402.

- 21) **Klonoff D.C.**: New Products and New Technologies for Diabetes. Diabetes Technology & Therapeutics. 1999; 1:237-238.
- 22) Klonoff D.C.: Inhaled insulin. Diabetes Technology & Therapeutics. 1999; 1:307-313.
- 23) **Klonoff D.C.**: The promise of optical sensing strategies for glucose. Diabetes Technology & Therapeutics. 1999; 1:117-119.
- 24) **Klonoff D.C.**, Schwartz DM: An economic analysis of interventions for diabetes mellitus. Diabetes Care. 2000; 23:390-404.
- 25) **Klonoff D.C.**: Diabetes Technology & Therapeutics Enters the 21st Century. Diabetes Technology & Therapeutics. 2000; 2:1-2.
- 26) **Klonoff D.C.**: New home blood monitoring technology improves blood glucose control in diabetes. Diabetes Technology & Therapeutics. 2000; 2:181-183.
- 27) **Klonoff D.C.**: The use of a portable fructosamine monitor to screen for diabetes. Diabetes Technology & Therapeutics. 2000; 2:537-9.
- 28) **Klonoff D.C.**: The importance of continuous glucose monitoring in diabetes. Diabetes Technology & Therapeutics. 2000; 2:S1-S4.
- 29) **Klonoff D.C.**: New home blood monitoring technology improves blood control in diabetes. Diabetes Technology & Therapeutics. 2000; 2:181-184.
- 30) **Klonoff D.C.**: The need for hypoglycemia detection and prevention in type 1 diabetes. Diabetes Technology & Therapeutics. 2001; 3: 567-570.
- 31) **Klonoff D.C.**: The pen is mightier than the needle. Diabetes Technology & Therapeutics. 2001; 3:631-3.
- 32) **Klonoff D.C.**: Diabetes Technology & Therapeutics evolves, along with our knowledge about alternative site testing. Diabetes Technology & Therapeutics. 2002; 4:1-2.
- 33) **Klonoff D.C.**: Current, Emerging, and Future Trends in Metabolic Monitoring. Diabetes Technology & Therapeutics. 2002; 4:583-588.
- 34) **Klonoff D.C.**: European trends in diabetes technology continuous glucose measurements and computerized information-processing tools. Diabetes Technology & Therapeutics. 2002; 4:763-764.
- 35) **Klonoff D.C.**: Diabetes and telemedicine is the technology sound, effective, costeffective, and practical? (Invited editorial) Diabetes Care. 2003; 26:1626-1628.
- 36) **Klonoff D.C.**: New technology for living well with type 1 diabetes: bioengineering advances in glucose measurement, the artificial pancreas, and insulin delivery. Pediatric Endocrine Rev. 2003; 1:94-100.
- 37) **Klonoff D.C.**: The link between diabetes, military metabolic monitoring, and NASA. Diabetes Technology & Therapeutics. 2003; 5:351-353.
- 38) **Klonoff D.C.**: A flaw in the use of sulfonylurea screening to diagnose sulfonylurea overdosages. Diabetes Technology & Therapeutics. 2003; 5:453-454.

- 39) Klonoff D.C.: Microdialysis of interstitial fluid for continuous glucose measurement. Diabetes Technology & Therapeutics. 2003; 5:539-543.
- 40) **Klonoff D.C.**: The importance of portable blood lactate monitoring. Diabetes Technology & Therapeutics 2003; 5:929-31.
- 41) Wojcicki, JM, Klonoff DC: Introduction to Seminar on Technical, Biological, and Biotechnical Approaches of the Diabetes Treatment. Diabetes Technology & Therapeutics. 2003; 5:863-865.
- 42) **Klonoff D.C.**: The need for separate performance standards for glucose monitors during hypoglycemia, normoglycemia, and hyperglycemia. (Invited editorial) Diabetes Care. 2004; 27:834-6.
- 43) Simmons M, Gillett D, Catanzaro B, Jacobs B, **Klonoff D.C.**, Sage B: A Closed Loop Drug Infusion System. Diabetes Technology & Therapeutics. 2004; 6:607-620.
- 44) **Klonoff D.C.**: Continuous Glucose Monitoring: Roadmap to 21st Century Diabetes Therapy. Diabetes Care. 2005; 28:1231-1239.
- 45) **Klonoff D.C.**: New technology for glucose monitoring. On the Cutting Edge. American Dietetic Association. 2005
- 46) **Klonoff D.C.**: Pharmacologic Treatment of Type 2 Diabetes Mellitus: Introduction. Am J Med. 2005; 118 (Suppl 1): 1-3.
- 47) **Klonoff D.C.**: Pyruvate therapy for severe hypoglycemia. Diabetes Technology & Therapeutics. 2005; 7: 583-586.
- 48) Crowe D, **Klonoff D.C.**: Time synching or time sinking? Diabetes Technology & Therapeutics. 2005; 7: 663-664.
- 49) **Klonoff D.C.**: A review of continuous glucose monitoring technology. Diabetes Technology & Therapeutics. 2005; 7:770-775.
- 50) **Klonoff D.C.**: Continuous Glucose Monitoring Technology Delivers Detailed Diabetes Data. Point of Care. 2006; 5:105-111.
- 51) **Klonoff D.C**., Bergenstal RM, Cole TG, Ammirati EB, Blatt JM, Irvin BR, Stivers CR, Clark AL: Clinical Evaluation of a Rapid A1C Test (A1cNow®) for Home-Use. Point of Care. 2006; 5:116-120.
- 52) **Klonoff D.C.**, Friedl K, Grodsky G, Heinemann L: J Diabetes Sci Technol and the diabetes technology community. J Diabetes Sci Technol. 2007; 1:1-2.
- 53) Nichols JH, **Klonoff, D.C.**: The need for performance standards for continuous glucose monitors. J Diabetes Sci Technol. 2007; 1:92-95.
- 54) **Klonoff D.C.**: The Artificial Pancreas: How Sweet Engineering Will Solve Bitter Problems. J Diabetes Sci Technol. 2007; 1:72-81.
- 55) Buse JB, Klonoff D.C., Nielsen LL, Guan X, Bowlus CL, Holcombe JH, Maggs DG, Wintle, ME: Metabolic Effects of Two Years of Exenatide Treatment on Diabetes, Obesity, and Hepatic Biomarkers in Patients with Type 2 Diabetes: An Interim Analysis of Data from the Open-Label, Uncontrolled Extension of Three Double-Blind, Placebo-Controlled Trials. Clin Ther 2007; 29:139-153.

- 56) **Klonoff D.C.**: Subcutaneous Continuous Glucose Monitoring in Severe Burn Patients. Critical Care Med. 2007 35:1445.
- 57) **Klonoff D.C.**: Technology to treat hyperglycemia in trauma patients. J Diabetes Sci Technol. 2007; 1:151-152.
- 58) **Klonoff D.C.**: Dirlotapide, an FDA approved first-in-class obesity drug for dogs will humans be next? J Diabetes Sci Technol. 2007 1:314-316.
- 59) **Klonoff D.C.**: Replacements for Trans Fats -Will there be an Oil Shortage? J Diabetes Sci Technol. 2007; 1:415-422.
- 60) **Klonoff D.C.**: Bariatric surgery for obese adolescents. J Diabetes Sci Technol. 2007; 1:451-453.
- 61) **Klonoff D.C.**: The new FDA CDRH Engineering and Physics Laboratory and methods for testing software that controls infusion pumps. J Diabetes Sci Technol. 2007; 1:608-611.
- 62) **Klonoff D.C.**: The benefits of implanted glucose sensors. J Diabetes Sci Technol. 2007; 1:797-800.
- 63) Klonoff D.C.: Buse JB, Nielsen LL, Guan X, Bowlus C, Holcombe JH, Wintle ME, Maggs DG. Effects of At Least Three Years of Exenatide Treatment on Diabetes, Obesity, Cardiovascular Risk Factors, and Hepatic Biomarkers in Patients with Type 2 Diabetes: Current Medical Research Opinion, 2008; 24:275-286.
- 64) Klonoff D.C.: Business and economics of diabetes. J Diabetes Sci Technol. 2008; 2:1-3.
- 65) **Klonoff D.C.**: The "Catalyst to Better Diabetes Care Act of 2007". J Diabetes Sci Technol. 2008; 2:175-177.
- 66) Klonoff D.C.: Personalized medicine for diabetes. J Diabetes Sci Technol. 2008; 2:335-341.
- 67) Klonoff D.C.: New Evidence Demonstrates That Self-Monitoring of Blood Glucose Does Not Improve Outcomes in Type 2 Diabetes—When This Practice Is Not Applied Properly. J Diabetes Sci Technol. 2008; 2:342 -348.
- 68) **Klonoff D.C.**: Spending for diabetes drugs in the US is increasing. J Diabetes Sci Technol. 2008; 2:543-545.
- 69) **Klonoff D.C.**: Designing an artificial pancreas to be compatible with other medical devices. J Diabetes Sci Technol. 2008; 2:741-745.
- 70) **Klonoff D.C.**, Greenway F: Obesity drugs in the pipeline. J Diabetes Sci Technol. 2008. 2:913-918.
- 71) Rosenstock J., Bergenstal R, DeFronzo RA, Hirsch IB, Klonoff, D.C., Boss A, Kramer D, Petrucci R, Yu W, Levy B: Efficacy and safety of Technosphere inhaled insulin compared with Technosphere powder placebo in insulin-naïve Type 2 diabetes suboptimally controlled with oral agents. Diabetes Care. 2008; 31:2177-2182.
- 72) **Klonoff D.C.**: United Kingdom Prospective Diabetes Study follow-up studies establish a legacy effect of therapy for hyperglycemia but not hypertension. J Diabetes Sci Technol. 2008; 2:922-924.

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DAVID C. KLONOFF, MD, FACP, FRCP (Edin), Fellow AIMBE

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- 199) Sterling B.B., Braig J.R., Kramer C.E. Zheng P., and **Klonoff D.C.**: Noninvasive glucose determination by conversion of thermal gradient data. Optical Society of America Annual Meeting and Exhibit in Santa Clara, California, September 26 to October 1, 1999.
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- 227) Klonoff D.C., Ahmann A, Garg S, Slover R, Bailey T, Bode B, Thrasher J, Brazg R, Schwartz F. Effects of automatic insulin pump interruption and bedtime glucose levels on nocturnal hypoglycaemic events in the ASPIRE In-Home Study. European Association for the Study of Diabetes 50th Annual Meeting in Vienna, Austria. September 15-19, 2014.
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- 240) King F, Ahn D, Hsiao V, Porco T, and Klonoff D. Performance of cleared blood glucose monitor sytems. American Diabetes Association Meeting in Orlando, Florida, June 22-26, 2018 (Accepted for oral presentation - pending).
- 241) Optimizing Basal-Bolus Therapy in T2D: A Randomized Controlled Trial Comparing Bolus Insulin Delivery Using an Insulin Patch vs an Insulin Pen. Bergenstal RM, Peyrot M, Dreon DM, Aroda V, Bailev TS, Brazg RL, Frias JP, Johnson ML, Klonoff D.C., Kruger DF, Ramtoola S, Rosenstock J, Serusclat P, Weinstock RS, Naik RG, Shearer DM, Zraick V, Levv BL. American Diabetes Association Meeting in Orlando, Florida, June 22-26, 2018. (Accepted for poster presentation - pending).
- 242) User- and Health Care Provider-Reported Outcomes for a Wearable Bolus Insulin Deliverv Patch. Pevrot M. Bergenstal RM. Dreon DM. Aroda V. Bailev TS. Brazg RL. Frias JP. Johnson ML. Klonoff D.C., Kruger DF, Ramtoola S, Rosenstock J, Serusclat P, Weinstock RS, Naik RG, Shearer DM, Zraick V, Levy BL. American Diabetes Association Meeting in Orlando, Florida, June 22-26, 2018. (Accepted for poster presentation - pending).
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- 271) **Klonoff D.C.**: Clinician Needs in Urgent Care, Emergency Medicine, and Disaster Preparedness for Diabetes Patients. In Global Point-of-Care Strategies for Disasters, Complex Emergencies, and Public Health Crises: Enhancing Standards of Care at the Site of Need. Chapter 3. (Kost G and Corbin C Eds.) American Association of Clinical Chemistry Press. 2014.
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- 273) Horwitz D, Klonoff D.C.: New Technologies for Insulin Administration and Glucose Monitoring. In Textbook of Diabetes 5th Edition. (Holt R, Flyvjberg A, Goldstein B, and Cockram, C. Eds.). Wiley-Blackwell (In press).

(*) = Featured on the CDC website: Infection Prevention During Blood Glucose Monitoring and Insulin Administration.

(**) = Featured on the 2017 US Department of HHS Assistant Secretary for Preparedness and Response (ASPR), Technical Resources, Assistance Center, and Information Exchange (TRACIE) Cybersecurity Topic Collection

CONTRACT AS PRINCIPLE SCIENTIFIC OFFICER

United States Air Force. Personalized Medicine for Diabetes: Scientific, Translational, and Commercial Factors. 2008 - 2009.

RESEARCH GRANTS AS PRINCIPAL INVESTIGATOR

- 1) SmithKline Beecham Pharmaceuticals, *Protocols BRL* 49653/024 and *BRL* 49653/105: Insulin sensitizing agent. 1996 1997.
- 2) Corning PACT: Comparative outcomes study, metformin versus conventional approach. 1996.

- 3) Bayer Corporation: Precose resolution of optimal titration to enhance current therapies. 1996.
- 4) Novartis: Valsartan, Protocol CGP 48933: (Value 405) plus extension study. 1996 1998.
- 5) OptiScan Biomedical Corporation, *Study ID #OBC 11-97-04*: Noninvasive glucose monitor clinical prototype performance validation. 1997 1998.
- 6) Mercury Diagnostics, Incorporated, (Amira Medical), *Protocol #420 WIRB*: A clinical study of Mercury Diagnostics' blood glucose sampling device ("Mercury Sampler"). 1997 1998.
- Mercury Diagnostics, Incorporated, (Amira Medical), *Protocol #M98-001 WIRB*: An open-label, subject-controlled, clinical study of Mercury Diagnostics' blood glucose measurement system ("Mercury Gold System"). 1998.
- 8) Orbon Corporation, *Protocol RA 9801*: Glucagon eye drops. Phase 1. 1998 1999.
- 9) Pfizer, Protocol 106; Protocol 110; Protocol 111: Inhaled insulin. (Extensions). 1998-2003
- 10) Provalis Diagnostics UK Ltd., *Protocol 200G1-002-PDL-Glyco*: Evaluation and reproducibility of the Glycosal HbA1c test using office staff participants. 2000.
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- 13) Antares Pharma, *Protocol 1501*: Comparison of the Antares Medi-Jector Vision Insulin Jet Delivery System with needle-syringe injections on blood glucose control in patients with type 1 diabetes. 2001–2002.
- 14) Restoragen, *Protocol BN02-C007*: A study comparing safety and efficacy of three doses of recombinant Glucagon-like peptide 1 (rGLP-1) to placebo given by continuous subcutaneous infusion in combination with metformin and sulfonylurea over 12 weeks in patients with type 2 diabetes mellitus. 2001- 2002.
- 15) Aerogen, Inc., Protocol 6.0: Inhaled insulin usability study. 2002.
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- 17) Amylin Pharmaceuticals, *Protocol 2993-112*: A phase 3 randomized, triple-blind parallel-group, long-term, placebo-controlled, multicenter study to examine the effect on glucose control (HbA1c) of AC2993 given two times a day in subjects with type 2 diabetes mellitus treated with metformin alone. 2002 2003.
- 18) Amylin Pharmaceuticals, *Protocol 2993-113*: A phase 3 randomized, triple-blind parallel-group, long-term, placebo-controlled, multicenter study to examine the effect on glucose control (HbA1c) of AC2993 given two times a day in subjects with type 2 diabetes mellitus treated with a sulfonylurea alone. 2002 2003.
- 19) Amylin Pharmaceuticals, *Protocol 137-150*: A randomized, triple-blind, placebo-controlled multicenter study to investigate the safety of Pramlintide treatment employing Pramlintide dose-titration followed by insulin dose optimization in subjects with type 1 diabetes mellitus who have not achieved glycemic targets with intensive insulin therapy. 2002 2003.
- 20) Amylin Pharmaceuticals, *Protocol 2993-116*: A Phase 2, randomized, triple-blind, placebocontrolled short-term, dose-response study to examine the effect on glucose control and safety and tolerability of AC2993 given two times a day in subjects with type 2 diabetes mellitus. 2002 - 2003.
- 21) Amylin Pharmaceuticals, *Protocol 2993-112E*: An open-label extension study of protocol 2993-112 to examine the longterm effect on glucose control (HbA1c) and safety and tolerability of AC2993 given two times a day to subjects treated with metformin alone. 2003 –2004.

- 22) Amylin Pharmaceuticals, *Protocol 2993-113E*: An open-label extension study of protocol 2993-113 to examine the long-term effect on glucose control (HbA1c) and safety and tolerability of AC2993 given two times a day to subjects treated with a sulfonylurea alone. 2003 2004.
- 23) Amylin Pharmaceuticals, *Protocol 137-150E*: A multicenter, open-label, extension study of the long-term safety of pramlintide in subjects with type 1 diabetes mellitus completing protocol 137-150. 2003 –2005.
- 24) Amylin Pharmaceuticals, *Protocol 2993-119*: An open-label study to examine the long-term effect on glucose control (HbA1c) and safety and tolerability of AC2993 given two times a day to subjects with type 2 diabetes mellitus. 2003 2004.
- 25) OptiScan Biomedical Corporation, *Protocol 0301*: OptiScan Biomedical Corporation clamp study. 2003.
- 26) Eli Lilly & Company, *Protocol H8O-MC-GWAA*: Effect of AC2993 (Synthetic Exendin-4) Compared with Insulin Glargine in Patients with Type 2 Diabetes Also Using Combination Therapy with Sulfonylurea and Metformin. 2003 2004.
- 27) Generex Biotechnology Corporation, *Protocol Gen-059-2003-Oralin-CGMS*: Comparison of Efficacy and Reproducibility of Oralin at Meal-times in Adult Subjects with Type-2 Diabetes maintained on Oral Agents for 3 days using the CGMS (Medtronic MiniMed Continuous Glucose Monitor. 2003 - 2005.
- 28) MannKind Corporation, Protocol PDC-INS-0008: Efficacy and Safety of Inhaled Technosphere®/Insulin compared to Technosphere®/Placebo in Patients with Type 2 Diabetes Mellitus following Diabetes Education. 2003 – 2005.
- 29) Eli Lilly & Company, *Protocol H80-MC-GWAN*: An Open-Label Study Examining the Long-Term Safety of Exenatide Given Twice Daily to Patients with Type 2 Diabetes Mellitus. 2004 – 2005.
- 30) Eli Lilly & Company, Protocol F3Z-US-IOOQ: A Comparison of Prandial Insulin Lispro Mixtures Therapy to Glargine Basal-Bolus Therapy With Insulin Lispro on the Overall Glycemic Control of Patients with Type 2 Diabetes Previously Treated With Oral Agents Combined With Insulin Glargine. 2004 – 2005.
- 31) Eli Lilly & Company, Protocol H80-MC-GWAP: Safety and Efficacy of Exenatide in Patients with Type 2 Diabetes Using Thiazolidindiones or Thiazolidindiones and Metformin. 2004 – 2005.
- 32) Provalis Diagnostics Limited, *Protocol H01006PD02P*: Consumer Field Study Evaluation of the "Home-Use" Performance of the G5 HbA1c Home Test Using Diabetic Patient Participants. 2004.
- 33) Provalis Diagnostics Limited, *Protocol H01010PD02P*: Evaluation of the G5 HbA1c Test Using Office Staff Participants. 2004.
- 34) Amylin Pharmaceuticals, *Protocol 2993-119LTM*: An open-label study to examine the long-term effect on glucose control (HbA1c) and safety and tolerability of AC2993 given two times a day to subjects with type 2 diabetes mellitus. 2004 2006.
- 35) MannKind Corporation, *Protocol MKC-TI-010*: A three-year, safety and tolerability, open-label, follow on trial evaluating Technosphere®/Insulin in patients with type 2 diabetes mellitus. 2004 2008.

- Page 42
- 36) Novo Nordisk, *Protocol ANA-2190*: An open-label, multi center, clinical trial: External Continuous Subcutaneous infusion of insulin using Insulin Aspart (NovoLog®) in subjects with Type 1 and insulin requiring Type 2 diabetes. 2004 2005.
- 37) Sanofi-Aventis, *Protocol HMR1964A/3508*: Lantus[®] (insulin glargine) plus APIDRA[™] (insulin glulisine) MDI versus Premix insulin treatment in subjects with diabetes mellitus (type 1 or type 2) evaluating differences in patient reported outcomes. A randomized, multicenter, cross over study. 2004 2007.
- 38) Eli Lilly & Company, *Protocol H7U-MC-IDAP*: Standard training versus intensive training for HIIP delivery system usage in insulin-naïve patients with Type 2 Diabetes Mellitus. 2004 2005.
- 39) Sankyo Pharma Development, *Protocol CS-011-203*: A randomized double-blind, doubledummy, placebo-controlled, 26 week dose-response study of Rivoglitazone HCl (CS-011) with active comparator (Pioglitazone HCl) in subjects with Type 2 Diabetes. 2004 – 2006.
- 40) Abbott Laboratories, *Protocol Noninvasive Glucose Monitor*: Abbott Laboratories Glucose Clamp Study. 2005.
- 41) Sanofi-Aventis, *Protocol HMR1964A/3503*: Apidra[™] (insulin glulisine) administered premeal vs. postmeal in adult subjects with Type 2 Diabetes Mellitus receiving Lantus® (insulin glargine) as basal insulin: A multicenter, randomized, parallel, open-label clinical study. 2005 2007.
- 42) MannKind Corporation, *Protocol MKC-TI-030*: Pulmonary Outcomes within a 2-year period in subjects with diabetes mellitus treated with Technosphere®/Insulin or usual antidiabetic treatment and in subjects without abnormalities in glucose control. 2005 2007.
- 43) Keryx Biopharmaceuticals, *Protocol KRX-101-301*: The collaborative study group trial: The effect of Sulodexide in patients with type 2 diabetes and microalbuminuria. 2005 2007.
- 44) Novo Nordisk, *Protocol NN1998-2076*: Inhaled mealtime insulin with the AERx iDMS versus subcutaneously injected insulin aspart both in combination with insulin detemir in type 1 diabetes: a 104 week open label, multicenter, randomised, parallel trial (followed by a twelve-week re-randomised extension) to investigate safety and efficacy. 2006 2008.
- 45) Pfizer Inc., *Protocol A2171093*: A phase 3B, randomized, open-label, parallel group, multicenter trial assessing the efficacy of Exubera vs. lispro introduced into a Lantus based regimen in suboptimally controlled patients with type 2 diabetes mellitus. 2006 2008.
- 46) Takeda Pharmaceuticals, *Protocol 01-06-TL-322OPI-002*: A multicenter, double-blind study to determine the efficacy and safety of SYR-322 plus pioglitazone HCl (Actos), SYR-322 alone or pioglitazone HCl in subjects with type 2 diabetes. 2006 2008.
- 47) Novo Nordisk, Protocol NN4440-1794: Repaglinide and Metformin Combination Tablet (NN4440) in a TID Regimen Compared to a BID Regimen and BID Advamet in Subjects with Type 2 Diabetes: a Twenty-Six Week Open-Label, Multicenter, Randomized, Parallel Group Trial to Investigate Efficacy and Safety. 2006 - 2008.
- 48) Biodel, Inc., *Protocol VIAJECT-06J*: An Open Label, Multi-Center, Randomized, Parallel Group Study Comparing the Efficacy and Safety of Insulin VIAJECT and Regular Human Insulin in Patients with Type 1 Diabetes Mellitus. 2006 2010.
- 49) Biodel, Inc., *Protocol VIAJECT-08J*: An Open Label, Multi-Center, Randomized, Parallel Group Study Comparing the Efficacy and Safety of Insulin VIAJECT and Regular Human Insulin in Patients with Type 2 Diabetes Mellitus. 2007 2010.

- Page 43
- 50) Biodel, Inc., *Protocol VIAJECT-07J*: An Open Label, Multi-Center, Follow-on Study Examining the Long-Term Safety and Efficacy of Insulin VIAJECT[™] in Subjects with Type 1 Diabetes Mellitus. 2007 2010.
- 51) C8 MediSensors, Inc., *Protocol C8MPHS-001*: Calibration Glucose Clamp Study for a Noninvasive Glucose Measuring Device. 2007 2009.
- 52) C8 MediSensors, Inc., *Protocol C8MPHS-002*: Validation Study for a Noninvasive Glucose Measuring Device. 2007 2010.
- 53) Novo Nordisk, Inc., *Protocol NN2211-1797*: Liraglutide Effect and Action in Diabetes LEAD 6. Effect on glycaemic control of liraglutide or exenatide added to metformin, sulphonylurea or a combination of both in subjects with type 2 diabetes. A 26-week randomised, open-label, active comparator, 2-armed, parallel-group, multi-centre, multi-national trial with a 14 week nonrandomised extension period. 2007 - 2009.
- 54) Medtronic MiniMed, *Protocol P26/GS042/A1*: An Evaluation of Six-Day subcutaneous Glucose Sensor Performance in Subjects with type 1 Diabetes Mellitus. 2007 2009.
- 55) GlaxoSmithKlein, *Protocol KG2110375*: A Once-Daily Dose-Ranging Study of GSK189075 Versus Placebo In The Treatment of Type 2 Diabetes Mellitus in Treatment-Naïve Subjects. 2007 - 2008.
- 56) DiObex, Protocol Dio-502: A Phase 2b, Randomized, Double-Blind, Parallel-Group, Study of Safety and Efficacy of 16 Weeks of Treatment with DIO-902 or DIO-902 Placebo in Addition to Metformin and Atorvastatin or Atorvastatin Placebo in Subjects with Type 2 Diabetes Mellitus. 2007 - 2008.
- 57) Merck, *Protocol 051*: A Phase 111, Multicenter, Randomized, Double-Blind Clinical Trial to Study the Safety and Efficacy of the Addition of Sitagliptin (MK-0431) to Patients with Type 2 Diabetes Mellitus Who have Inadequate Glycemic Control on Insulin Therapy (Alone or in Combination with Metformin). 2007 – 2008.
- 58) Biodel, Protocol VIAJECT-09J: An Open Label, Multi-Center, Follow-on Study Examining the Long-Term Safety and Efficacy of Insulin VIAject in subjects with Type 2 diabetes Mellitus. 2007 - 2010.
- 59) MannKind, *Protocol MKC-TI-126*: A 2-Month Safety Follow-up Trial of Subjects from MannKind Protocols MKC-TI-009, MKC-TI-102, MKC-TI-103 and MKC-TI-030. 2007 2010.
- 60) SymCare Personalized Health Solutions, inc. *Protocol 020202*. A Study to evaluate Human Factors and the Usability of a Diabetes Remote Management System. 2008.
- 61) MannKind, *Protocol MKC-TI-117*: A Phase 3, Multi-Center, Open-Label, Randomized, Clinical Trial Evaluating the Efficacy and Safety of Technosphere® Insulin Inhalation Powder in Combination with Lantus® Versus Humalog® in Combination with Lantus® in Subjects with Type 1 Diabetes Mellitus Over a 16-Week Treatment Period. 2008 2009.
- 62) sanofi-aventis, *Protocol EFC6019*(GETGOAL-X): A randomized, open-label, active-controlled, 2-arm parallel-group, multicenter 24-week study followed by an extension assessing the efficacy and safety of AVE0010 versus exenatide on top of metformin in patients with type 2 diabetes not adequately controlled with metformin. 2008 2011.
- 63) sanofi-aventis, *Protocol AVE 0010 EFC6017*: A randomized, double-blind, placebo-controlled 2arm parallel-group, 24-week main treatment period and an extension assessing the efficacy and

safety of AVE0010 on top of pioglitazone in patients with type 2 diabetes not adequately controlled with pioglitazone. 2008 – 2011.

- 64) Diasome, *Protocol DP 01-2007-03*: An 18-week randomized, double-blind, multicenter, comparator study of two doses of oral HDV-insulin and placebo with background metformin treatment in patients with type 2 diabetes mellitus. 2009–2010.
- 65) CPEX Pharmaceuticals, Inc., Protocol *Nasulin-US-0100-CPEX011*. The effects of Nasulin vs. placebo on blood glucose control in patient volunteers with moderately controlled type 2 diabetes mellitus currently treated with basal insulin and oral antidiabeticc medications, excluding secretagogues in a phase IIa, randomized parrallel, double-blind, placebo-controlled, multicenter study. 2009–2010.
- 66) IntelliDx, Inc. *IDx-2009-002*. Assessment of the Operational Performance of the OPTIMUS[®] Automated Ex Vivo Blood Analysis System - Glucose for the Measurement of Glucose in Whole Blood in Diabetic Volunteer Subjects. 2009.
- 67) C8 MediSensors, Inc. *Protocol C8MPHS-004*. Calibration testing of the HG-1 prototype noninvasive glucose monitor. 2009–2011.
- 68) Novo Nordisk, Inc., *Protocol NN1250-3579*: A 52-week randomised, controlled, open label, multicentre, multinational treat-to-target trial comparing the efficacy and safety of SIBA and insulin glargine, both injected once daily in combination with oral anti-diabetic drugs (OAD), in subjects with type 2 diabetes mellitus currently treated with OAD(s) and qualifying for more intensified treatment. 2009 2011.
- 69) Novo Nordisk, Inc., *Protocol NN1250-3718:* BEGIN EASY PM. A trial comparing the efficacy and safety of NN1250 and insulin glargine in subjects with type 2 diabetes. A 26-week randomized, confirmatory, controlled, open-label, multicentre, multinational treat-to-target trial comparing the efficacy and safety of SIBA 200 U/ml three times weekly injected in the evening and insulin glargine once daily in a population of insulin naïve subjects with type 2 diabetes mellitus currently treated with OADs qualifying for intensified treatment. 2010 2011.
- 70) Eli Lilly & Company. *Protocol H9X-MC-GBDC*. The Impact of LY2189265 versus Metformin on Glycemic Control in Early Type 2 Diabetes Mellitus (AWARD-3: Assessment of Weekly Administration of LY2189265 in Diabetes). 2010 – 2011.
- 71) Kowa Co., Ltd. *Protocol SK-0403-2.01US*. Multicenter, Randomized, Parallel-Group, Double-Blind, Placebo and Active Controlled Phase 2 Dose Finding Study Comparing the Safety, Tolerance, and Efficacy of Various Doses of SK-0403 Versus Placebo and Sitagliptin 100 mg in Patients Not Well-Controlled on Metformin Therapy. 2010 2011.
- 72) Halozyme. Protocol HALO-117-205. A Phase II, Randomized, Double Blind, 2-Way Crossover Safety and Efficacy Study of Subcutaneously Injected Prandial Insulins: Lispro-PH20 or Aspart-PH20 Compared to Insulin Lispro (Humalog®) in Patients with Type 1 Diabetes. 2010 – 2011.
- 73) Halozyme. Protocol HALO-117-206. A Phase II, Randomized, Double Blind, 2-Way Crossover Safety and Efficacy Study of Subcutaneously Injected Prandial Insulins: Lispro-PH20 or Aspart-PH20 Compared to Insulin Lispro (Humalog®) in Patients with Type 2 Diabetes. 2010 – 2011.
- 74) InsuLine Medical. Protocol *G080106/A*. Protocol for Evaluation of the Effect of the InsuPatch Device on Insulin Pharmacokinetics in Clamp Studies. 2010 2011.
- 75) Amylin Pharmaceuticals, Inc. and Eli Lilly and Company. *Protocol BCB109*. EXenatide Study of Cardiovascular Event Lowering Trial (EXSCEL). A Randomized Placebo Controlled Trial to

Evaluate Cardiovascular Outcomes After Treatment with Exenatide Once Weekly in Patients with Type 2 Diabetes Mellitus. 2010 – 2012.

- 76) InsuLine Medical. *Protocol G080106/B*. Protocol for Evaluation of the safety use of the InsuPatch Device in daily life conditions. 2010 2012.
- 77) Novo Nordisk Inc., *Protocol NN9068-3697*. DUAL[™] I. DUal Action of Liraglutide and insulin degludec in type 2 diabetes. A trial comparing the efficacy and safety of insulin degludec/liraglutide, insulin degludec and liraglutide in subjects with type 2 diabetes. A 26-week randomised, parallel three-armed, open-label, multi-centre, multinational treat-to-target trial comparing fixed ratio combination of insulin degludec and liraglutide versus insulin degludec or liraglutide alone, in subjects with type 2 diabetes treated with 1-2 oral anti-diabetic drugs (OADS). 2011 2012.
- 78) Eli Lilly & Company. Protocol I2R-MC-BIAJ. A Comparison of LY2605541 Versus Insulin Glargine as Basal Insulin Treatment In CoMbination with OrAl Anti-HyperGlycemia MedIcations in INsulin NaïvE Type 2 Diabetes Mellitus: A Double-Blind, Randomized Study: The IMAGINE 2 Study. 2011 – 2014.
- 79) MannKind. Protocol MKC-TI-171. A Phase 3, Multicenter, Open-label, Randomized, Forcedtitration Clinical Trial Evaluating the Efficacy and Safety of Technosphere® Insulin Inhalation Powder in Combination with a Basal Insulin Versus Insulin Aspart in Combination with a Basal Insulin in Subjects with Type 1 Diabetes Mellitus Over a 24-week Treatment Period. 2011 – 2013.
- 80) Eli Lilly & Company. Protocol I2R-MC-BIAN. The Impact of LY2605541 versus Insulin Glargine for Patients with Type 1 Diabetes Mellitus Treated with Preprandial Insulin Lispro: An Open-Label, Randomized, 78-Week Study (The IMAGINE 1 Study). 2011 – 2014.
- 81) Medtronic MiniMed, Inc. *Protocol* CEP237/Z25/D. ASPIRE (Automation to Simulate Pancreatic Insulin Response): Pivotal In Home study to determine safety and efficacy of the LGS feature in sensor-augmented pumps. 2011 – 2013. (Lead National Investigator).
- 82) Home Access Health Corporation. *Protocol 040412*: Clinical Chemistry Analysis Utilizing Micro-Serum/Micro Blood (Fingerstick) Specimen Collection. 2012.
- 83) Novo Nordisk Inc., *Protocol NN9068-3851*: DUAL[™] III GLP-1 Switch The efficacy of insulin degludec/liraglutide in controlling glycaemia in adults with type 2 diabetes inadequately controlled on GLP-1 receptor agonist and metformin therapy. 2012 2014.
- 84) Novo Nordisk Inc., *Protocol NN9068-3951*: The efficacy of insulin degludec/liraglutide as addon therapy in controlling glycaemia in adults with type 2 diabetes inadequately controlled on sulphonylurea with or without metformin therapy. 2012 – 2013.
- 85) Novo Nordisk Inc., *Protocol NN2211-3917*: The effect of liraglutide versus placebo when added to basal insulin analogues with or without metformin in subjects with type 2 diabetes. A 26-week double-blind placebo-controlled randomised multicentre, multinational parallel-group trial. 2012 2013.
- 86) Biodel, Inc. *Protocol 3-201*: A randomized, parallel group trial evaluating safety and efficacy of BIOD-123 compared to insulin lispro (Humalog®) in subjects with type 1 diabetes using basalbolus insulin injection therapy. 2012 – 2013.
- 87) Amylin Pharmaceuticals, LLC. *Protocol BCB120*: A Randomized, Long-Term, Open-Label, 3-Arm, Multicenter Study to Compare the Glycemic Effects, Safety, and Tolerability of Exenatide

Once Weekly Suspension to Sitagliptin and Placebo in Subjects With Type 2 Diabetes Mellitus. 2012 – 2013.

- 88) Intarcia Therapeutics, Inc. Protocol ITCA 650-CLP-103: A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Evaluate the Efficacy, Safety and Tolerability of ITCA 650 in Patients with Type 2 Diabetes. 2012 – 2013.
- 89) Intarcia Therapeutics, Inc. *Protocol ITCA 650-CLP-105*: A Phase 3, Randomized, Active Comparator, Double-Blind, Multi-Center Study to Compare the Efficacy, Safety and Tolerability of ITCA 650 to Sitagliptin as Add-on Therapy to Metformin in Patients with Type 2 Diabetes. 2012 – 2015.
- 90) Correlation Of Measurements Between In vivo Numerically Assessed blood glucose levels and Tear glucose levels In specimens Obtained Noninvasively (The COMBINATION Study). 2013 – 2016.
- 91) Halozyme, Inc., Protocol: HALO-117-403 CONSISTENT 1: Evaluation of Metabolic Outcomes and Safety of Hylenex recombinant (hyaluronidase human injection) used as a Preadministration Infusion Site Treatment in Subjects with Type 1 Diabetes (T1DM) Using Continuous Subcutaneous Insulin Infusion (CSII). 2012 – 2015.
- 92) Novo Nordisk, Inc., *Protocol NN9211-3919*: The efficacy and safety of liraglutide as adjunct therapy to insulin in the treatment of type 1 diabetes: A 52-week randomized, treat-to-target, placebo-controlled, double-blinded, parallel group, multinational, multi-centre trial. 2013 2015.
- 93) Novo Nordisk, Inc. *Protocol NN1250-3995*: A randomised, double blind, cross-over trial comparing the safety and efficacy of insulin degludec and insulin glargine, both with insulin aspart as mealtime insulin in subjects with type 1 diabetes. 2013 2016.
- 94) Sanofi. Functional Evaluation of the Reusable JuniorSTAR® Half-Unit Insulin Pen. 2014-1015.
- 95) Eli Lilly & Company. *Protocol H9X-MC-GBDI*: A Randomized, Double-Blind Trial Comparing the Effect of Dulaglutide 1.5 mg with Placebo on Glycemic Control in Patients with Type 2 Diabetes on Basal Insulin Glargine. 2014 2016.
- 96) Novo Nordisk, Inc. *Protocol NN9211-4083*: The efficacy and safety of liraglutide as adjunct therapy to insulin treatment in type 1 diabetes: A 26-weeks randomised, insulin-capped, placebo-controlled, double-blinded, parallel group, multinational, multi-centre trial. 2014 2015.
- 97) Janssen Research & Development *Protocol 28431754DIA2004*: A Randomized Phase 2, Doubleblind, Placebo-controlled, Treat-to-Target, Parallel-group, 3-arm, Multicenter Study to Assess the Efficacy and Safety of Canagliflozin as Add-on Therapy to Insulin in the Treatment of Subjects with Type 1 Diabetes Mellitus. 2014 – 2015.
- 98) Oramed. Protocol: Pharmaceuticals Inc. *Protocol: ORA-D-007*. Randomized, Double-Blind, Placebo-Controlled Study to Assess the safety and efficacy of Multiple Oral Bedtime Doses of ORMD-0801 (Insulin Capsules) in Adult Patients with Type 2 Diabetes Mellitus who are Inadequately Controlled with Diet and Metformin. 2015 2016.
- 99) Novo Nordisk, Inc. *Protocol NN9068-4185*/ DUAL[™] VII A clinical trial comparing efficacy and safety of insulin degludec/liraglutide (IDegLira) vs basal-bolus therapy in subjects with type 2 diabetes mellitus. 2015 2016.
- 100) Calibra Medical, Inc. Clinical Study *Protocol* VP-00525, Glycemic Control and Treatment Satisfaction Using Finesse Versus Pen for Initiating Bolus Insulin Dosing in Type 2 Diabetes

Mellitus Patients Not Achieving Glycemic Targets on Basal Insulin With/Without Anti-Hyperglycemic Agents. 2015 – present.

- 101) Lexicon Pharmaceuticals Inc. *Protocol: LX4211.309.* A Phase 3, Randomized, Double-blind, Placebo controlled, Parallel-group, Multicenter Study to Evaluate the Efficacy, Safety, and Tolerability of LX4211 as Adjunct Therapy in Adult Patients with Type 1 Diabetes Mellitus Who Have Inadequate Glycemic Control with Insulin Therapy. 2015 present.
- 102) Boehringer Ingelheim Pharmaceuticals, Inc. *Protocol: 1245.69*: Phase III, randomised, double blind, placebo efficacy, safety and tolerability trial doses of Empagliflozin as Adjunctive to in 52 weeks in patients with Type 1 Diabetes. 2015 present.
- 103) Lexicon Pharmaceuticals Inc. *Protocol: LX4211.1-312-T1DM*. A Phase 3, Randomized, Double-blind, Placebo-controlled, Parallel-group, Multicenter Study to Evaluate the Net Clinical Benefit of Sotagliflozin as Adjunct to Insulin Therapy in Type 1 Diabetes. 2016 present.
- 104) Bristol-Myers Squibb on behalf of AstraZeneca. *Protocol: MB102-230*. A Multicenter, Randomized, Double-Blind, Placebo-controlled, Parallel Group, Phase 3 Study to Evaluate the Efficacy and Safety of Dapagliflozin as an Add-on to Insulin Therapy in Subjects with Type 1 Diabetes Mellitus - Study Two. 2016 - present.
- 105) Bristol-Myers Squibb on behalf of AstraZeneca. Protocol: CV181-369: A 24-week International, Multicenter, Randomized, Open-Label, Active-Controlled, Parallel Group, Phase 3b Trial with a 28-week Extension to Evaluate the Efficacy and Safety of Saxagliptin Coadministered with Dapagliflozin Compared to Insulin Glargine in Subjects with Type 2 Diabetes who have Inadequate Glycemic Control on Metformin with or without Sulfonylurea Therapy. 2016.
- 106) Dexcom Inc. Protocol: PTL-902309. Feasibility Session Study: Evaluation of the Dexcom® Continuous Glucose Monitoring (CGM) System Performance in Non-Intensive Insulin Therapy Type 2 Diabetes Mellitus (T2DM) Adults. 2016 - present.
- 107) Novo Nordisk, Inc. Protocol NN1218-3854: Efficacy and Safety of Continuous Subcutaneous Insulin Infusion of Faster-acting Insulin Aspart compared to NovoRapid® in Adults with Type 1 Diabetes. 2016 - present. (Signatory Investigator)
- 108) Novo Nordisk, Inc. *Protocol NN9924-4233*: Efficacy and safety of oral semaglutide versus placebo in subjects with type 2 diabetes mellitus treated with diet and exercise only. 2016 present.
- 109) Diasome Pharmaceuticals, Inc. *Protocol Number: DP 01-2007-03.* An 18-Week Randomized, Double-Blind, Multicenter, Comparator Study of Two Doses of Oral HDV-Insulin and Placebo with Background Metformin Treatment in Patients with Type 2 Diabetes Mellitus Investigational Product: Oral Hepatic Directed Vesicle-Insulin (HDV-I). 2017 present. (Lead Investigator)
- 110) Novo Nordisk, Inc. *Protocol Number: NN1250-4252*: A trial comparing the efficacy and safety of insulin degludec and insulin glargine 300 units/mL in subjects with type 2 diabetes mellitus inadequately treated with basal insulin with or without oral antidiabetic drugs. 2017 present.
- 111) Dexcom, Inc. Protocol Number PTL-901895. Post Approval Study for Non-Adjunctive Use of Dexcom G5 CGM System for Diabetes Management: COntinous Monitoring And Control of Hypoglycemia: The COACH Study. 2018 – present.