Roman Hovorka

List of Publications by Year
in descending order

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312 papers	17,979 citations	18436 62 h-index	16605 123 g-index
322 all docs	322 docs citations	322 times ranked	8496 citing authors

#	Article	IF	Citations
1	Clinical Targets for Continuous Glucose Monitoring Data Interpretation: Recommendations From the International Consensus on Time in Range. Diabetes Care, 2019, 42, 1593-1603.	4.3	2,101
2	International Consensus on Use of Continuous Glucose Monitoring. Diabetes Care, 2017, 40, 1631-1640.	4.3	1,376
3	Nonlinear model predictive control of glucose concentration in subjects with type 1 diabetes. Physiological Measurement, 2004, 25, 905-920.	1.2	1,025
4	Intensive insulin therapy: enhanced Model Predictive Control algorithm versus standard care. Intensive Care Medicine, 2009, 35, 123-128.	3.9	525
5	Manual closed-loop insulin delivery in children and adolescents with type 1 diabetes: a phase 2 randomised crossover trial. Lancet, The, 2010, 375, 743-751.	6.3	429
6	Home Use of an Artificial Beta Cell in Type 1 Diabetes. New England Journal of Medicine, 2015, 373, 2129-2140.	13.9	397
7	Continuous glucose monitoring and closed-loop systems. Diabetic Medicine, 2006, 23, 1-12.	1.2	371
8	Closed-loop insulin delivery in suboptimally controlled type 1 diabetes: a multicentre, 12-week randomised trial. Lancet, The, 2018, 392, 1321-1329.	6.3	302
9	Partitioning glucose distribution/transport, disposal, and endogenous production during IVGTT. American Journal of Physiology - Endocrinology and Metabolism, 2002, 282, E992-E1007.	1.8	297
10	Artificial pancreas treatment for outpatients with type 1 diabetes: systematic review and meta-analysis. BMJ: British Medical Journal, 2018, 361, k1310.	2.4	294
11	Closed-loop insulin delivery: from bench to clinical practice. Nature Reviews Endocrinology, 2011, 7, 385-395.	4.3	274
12	Overnight closed loop insulin delivery (artificial pancreas) in adults with type 1 diabetes: crossover randomised controlled studies. BMJ: British Medical Journal, 2011, 342, d1855-d1855.	2.4	217
13	Insulin Kinetics in Type-1 Diabetes: Continuous and Bolus Delivery of Rapid Acting Insulin. IEEE Transactions on Biomedical Engineering, 2005, 52, 3-12.	2.5	209
14	Closed-Loop Insulin Delivery during Pregnancy in Women with Type 1 Diabetes. New England Journal of Medicine, 2016, 375, 644-654.	13.9	203
15	Simulation Environment to Evaluate Closed-Loop Insulin Delivery Systems in Type 1 Diabetes. Journal of Diabetes Science and Technology, 2010, 4, 132-144.	1.3	195
16	Outcome Measures for Artificial Pancreas Clinical Trials: A Consensus Report. Diabetes Care, 2016, 39, 1175-1179.	4.3	195
17	Overnight Closed-Loop Insulin Delivery in Young People With Type 1 Diabetes: A Free-Living, Randomized Clinical Trial. Diabetes Care, 2014, 37, 1204-1211.	4.3	193
18	Multicentric, Randomized, Controlled Trial to Evaluate Blood Glucose Control by the Model Predictive Control Algorithm Versus Routine Glucose Management Protocols in Intensive Care Unit Patients. Diabetes Care, 2006, 29, 271-276.	4.3	189

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19	Coming of age: the artificial pancreas for type 1 diabetes. Diabetologia, 2016, 59, 1795-1805.	2.9	187
20	Clinical review: Consensus recommendations on measurement of blood glucose and reporting glycemic control in critically ill adults. Critical Care, 2013, 17, 229.	2.5	169
21	ISEC: a program to calculate insulin secretion. Computer Methods and Programs in Biomedicine, 1996, 50, 253-264.	2.6	150
22	New closed-loop insulin systems. Diabetologia, 2021, 64, 1007-1015.	2.9	146
23	Closed-Loop Basal Insulin Delivery Over 36 Hours in Adolescents With Type 1 Diabetes. Diabetes Care, 2013, 36, 838-844.	4.3	144
24	Closed-Loop Insulin Delivery for Glycemic Control in Noncritical Care. New England Journal of Medicine, 2018, 379, 547-556.	13.9	144
25	Home use of closed-loop insulin delivery for overnight glucose control in adults with type 1 diabetes: a 4-week, multicentre, randomised crossover study. Lancet Diabetes and Endocrinology,the, 2014, 2, 701-709.	5.5	140
26	Closing the loop overnight at home setting: psychosocial impact for adolescents with type 1 diabetes and their parents. BMJ Open Diabetes Research and Care, 2014, 2, e000025.	1.2	132
27	Closing the Loop: The Adicol Experience. Diabetes Technology and Therapeutics, 2004, 6, 307-318.	2.4	131
28	Day-and-night glycaemic control with closed-loop insulin delivery versus conventional insulin pump therapy in free-living adults with well controlled type 1 diabetes: an open-label, randomised, crossover study. Lancet Diabetes and Endocrinology,the, 2017, 5, 261-270.	5.5	120
29	Closed-Loop Insulin Delivery During Pregnancy Complicated by Type 1 Diabetes. Diabetes Care, 2011, 34, 406-411.	4.3	115
30	Continuous subcutaneous insulin infusion in diabetes: patient populations, safety, efficacy, and pharmacoeconomics. Diabetes/Metabolism Research and Reviews, 2016, 32, 21-39.	1.7	115
31	Day and Night Home Closed-Loop Insulin Delivery in Adults With Type 1 Diabetes: Three-Center Randomized Crossover Study. Diabetes Care, 2014, 37, 1931-1937.	4.3	113
32	Day-and-Night Closed-Loop Insulin Delivery in a Broad Population of Pregnant Women With Type 1 Diabetes: A Randomized Controlled Crossover Trial. Diabetes Care, 2018, 41, 1391-1399.	4.3	113
33	A probabilistic approach to glucose prediction and insulin dose adjustment: description of metabolic model and pilot evaluation study. Computer Methods and Programs in Biomedicine, 1994, 41, 153-165.	2.6	112
34	Day-and-Night Hybrid Closed-Loop Insulin Delivery in Adolescents With Type 1 Diabetes: A Free-Living, Randomized Clinical Trial. Diabetes Care, 2016, 39, 1168-1174.	4.3	105
35	Technology in the management of type 1 diabetes mellitus â€" current status and future prospects. Nature Reviews Endocrinology, 2018, 14, 464-475.	4.3	103
36	Patientsâ€™ and caregiversâ€™ experiences of using continuous glucose monitoring to support diabetes self-management: qualitative study. BMC Endocrine Disorders, 2018, 18, 12.	0.9	102

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37	Safety and Efficacy of 24-h Closed-Loop Insulin Delivery in Well-Controlled Pregnant Women With Type 1 Diabetes. Diabetes Care, 2011, 34, 2527-2529.	4.3	101
38	Glycemic Variability Correlates Strongly With PostprandialÎ²-Cell Dysfunction in a Segment of Type 2 Diabetic Patients Using Oral Hypoglycemic Agents. Diabetes Care, 2009, 32, 1058-1062.	4.3	99
39	Closing the Loop in Adults, Children and Adolescents With Suboptimally Controlled Type 1 Diabetes Under Free Living Conditions: A Psychosocial Substudy. Journal of Diabetes Science and Technology, 2017, 11, 1080-1088.	1.3	99
40	Randomized Trial of Closed-Loop Control in Very Young Children with Type 1 Diabetes. New England Journal of Medicine, 2022, 386, 209-219.	13.9	99
41	Blood Glucose Control by a Model Predictive Control Algorithm with Variable Sampling Rate Versus a Routine Glucose Management Protocol in Cardiac Surgery Patients: A Randomized Controlled Trial. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 2960-2964.	1.8	98
42	Day and Night Closed-Loop Control in Adults With Type 1 Diabetes. Diabetes Care, 2013, 36, 3882-3887.	4.3	95
43	Feasibility of fully automated closed-loop glucose control using continuous subcutaneous glucose measurements in critical illness: a randomized controlled trial. Critical Care, 2013, 17, R159.	2.5	94
44	Psychosocial aspects of closedâ€•and openâ€•loop insulin delivery: closing the loop in adults with Type 1 diabetes in the home setting. Diabetic Medicine, 2015, 32, 601-608.	1.2	91
45	Closed-loop insulin delivery in inpatients with type 2 diabetes: a randomised, parallel-group trial. Lancet Diabetes and Endocrinology,the, 2017, 5, 117-124.	5.5	91
46	Comparison of Three Protocols for Tight Glycemic Control in Cardiac Surgery Patients. Diabetes Care, 2009, 32, 757-761.	4.3	90
47	Tight glycaemic control by an automated algorithm with time-variant sampling in medical ICU patients. Intensive Care Medicine, 2008, 34, 1224-1230.	3.9	87
48	A simulation model of glucose regulation in the critically ill. Physiological Measurement, 2008, 29, 959-978.	1.2	86
49	Pathophysiology of postprandial hyperglycaemia in women with type 1 diabetes during pregnancy. Diabetologia, 2012, 55, 282-293.	2.9	85
50	Quantifying the Acute Changes in Glucose with Exercise in Type 1 Diabetes: A Systematic Review and Meta-Analysis. Sports Medicine, 2015, 45, 587-599.	3.1	83
51	Closed-loop insulin delivery for treatment of type 1 diabetes. BMC Medicine, 2011, 9, 120.	2.3	82
52	Effects of Intravenous Infusion of Lipid-Free Apo A-I in Humans. Arteriosclerosis, Thrombosis, and Vascular Biology, 1996, 16, 1203-1214.	1.1	80
53	Home Use of Day-and-Night Hybrid Closed-Loop Insulin Delivery in Very Young Children: A Multicenter, 3-Week, Randomized Trial. Diabetes Care, 2019, 42, 594-600.	4.3	79
54	Continuous Glucose Monitors and Automated Insulin Dosing Systems in the Hospital Consensus Guideline. Journal of Diabetes Science and Technology, 2020, 14, 1035-1064.	1.3	77

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55	Pancreatic Î²-Cell Responsiveness during Meal Tolerance Test: Model Assessment in Normal Subjects and Subjects with Newly Diagnosed Noninsulin-Dependent Diabetes Mellitus1. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 744-750.	1.8	73
56	Reduced burden of diabetes and improved quality of life: Experiences from unrestricted dayâ€andâ€night hybrid closedâ€loop use in very young children with type 1 diabetes. Pediatric Diabetes, 2019, 20, 794-799.	1.2	72
57	Is an artificial pancreas (closedâ€loop system) for Type 1 diabetes effective?. Diabetic Medicine, 2019, 36, 279-286.	1.2	72
58	The Future of Continuous Glucose Monitoring: Closed Loop. Current Diabetes Reviews, 2008, 4, 269-279.	0.6	69
59	A Glycemia Risk Index (GRI) of Hypoglycemia and Hyperglycemia for Continuous Glucose Monitoring Validated by Clinician Ratings. Journal of Diabetes Science and Technology, 2023, 17, 1226-1242.	1.3	69
60	Continuous glucose control in the ICU: report of a 2013 round table meeting. Critical Care, 2014, 18, 226.	2.5	68
61	Perioperative Tight Glucose Control Reduces Postoperative Adverse Events in Nondiabetic Cardiac Surgery Patients. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 3081-3089.	1.8	67
62	How to measure insulin secretion. Diabetes/metabolism Reviews, 1994, 10, 91-117.	0.2	66
63	Home Use of Day-and-Night Hybrid Closed-Loop Insulin Delivery in Suboptimally Controlled Adolescents With Type 1 Diabetes: A 3-Week, Free-Living, Randomized Crossover Trial. Diabetes Care, 2016, 39, 2019-2025.	4.3	65
64	Closed-Loop Insulin Delivery in Type 1 Diabetes. Endocrinology and Metabolism Clinics of North America, 2012, 41, 105-117.	1.2	64
65	Glucose Control in the ICU. Journal of Diabetes Science and Technology, 2016, 10, 1372-1381.	1.3	64
66	Fully closed-loop insulin delivery in inpatients receiving nutritional support: a two-centre, open-label, randomised controlled trial. Lancet Diabetes and Endocrinology,the, 2019, 7, 368-377.	5.5	59
67	Pancreatic Â-Cell Responsiveness during Meal Tolerance Test: Model Assessment in Normal Subjects and Subjects with Newly Diagnosed Noninsulin-Dependent Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 1998, 83, 744-750.	1.8	59
68	Overnight Closed-Loop Insulin Delivery with Model Predictive Control: Assessment of Hypoglycemia and Hyperglycemia Risk Using Simulation Studies. Journal of Diabetes Science and Technology, 2009, 3, 1109-1120.	1.3	58
69	Hybrid closedâ€loop glucose control with faster insulin aspart compared with standard insulin aspart in adults with type 1 diabetes: A doubleâ€blind, multicentre, multinational, randomized, crossover study. Diabetes, Obesity and Metabolism, 2021, 23, 1389-1396.	2.2	58
70	A comparison of six deconvolution techniques. Journal of Pharmacokinetics and Pharmacodynamics, 1996, 24, 283-299.	0.6	55
71	Attainment of Metabolic Goals in the Integrated UK Islet Transplant Program With Locally Isolated and Transported Preparations. American Journal of Transplantation, 2013, 13, 3236-3243.	2.6	55
72	Evaluation of glucose controllers in virtual environment: methodology and sample application. Artificial Intelligence in Medicine, 2004, 32, 171-181.	3.8	54

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73	Measuring prehepatic insulin secretion using a population model of C-peptide kinetics: accuracy and required sampling schedule. Diabetologia, 1998, 41, 548-554.	2.9	52
74	Automated Overnight Closed-Loop Glucose Control in Young Children with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2011, 13, 419-424.	2.4	52
75	Modeling Day-to-Day Variability of Glucoseâ€“Insulin Regulation Over 12-Week Home Use of Closed-Loop Insulin Delivery. IEEE Transactions on Biomedical Engineering, 2017, 64, 1412-1419.	2.5	52
76	Participants' Experiences of, and Views About, Daytime Use of a Day-and-Night Hybrid Closed-Loop System in Real Life Settings: Longitudinal Qualitative Study. Diabetes Technology and Therapeutics, 2019, 21, 119-127.	2.4	52
77	Closed-loop control in insulin pumps for type-1 diabetes mellitus: safety and efficacy. Expert Review of Medical Devices, 2020, 17, 707-720.	1.4	52
78	Young Children Have Higher Variability of Insulin Requirements: Observations During Hybrid Closed-Loop Insulin Delivery. Diabetes Care, 2019, 42, 1344-1347.	4.3	51
79	Fully closed-loop insulin delivery improves glucoseÂcontrol of inpatients with type 2 diabetesÂreceiving hemodialysis. Kidney International, 2019, 96, 593-596.	2.6	51
80	On-line adaptive algorithm with glucose prediction capacity for subcutaneous closed loop control of glucose: evaluation under fasting conditions in patients with Type 1 diabetes. Diabetic Medicine, 2006, 23, 90-93.	1.2	50
81	Artificial pancreas: an emerging approach to treat Type 1 diabetes. Expert Review of Medical Devices, 2009, 6, 401-410.	1.4	50
82	Treatment with Recombinant Human Insulin-Like Growth Factor (rhIGF)-I/rhIGF Binding Protein-3 Complex Improves Metabolic Control in Subjects with Severe Insulin Resistance. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 2113-2122.	1.8	50
83	Management of diabetes using adaptive control. International Journal of Adaptive Control and Signal Processing, 2005, 19, 309-325.	2.3	49
84	Stochastic Virtual Population of Subjects With Type 1 Diabetes for the Assessment of Closed-Loop Glucose Controllers. IEEE Transactions on Biomedical Engineering, 2013, 60, 3524-3533.	2.5	49
85	Feasibility of Closed-Loop Insulin Delivery in Type 2 Diabetes: A Randomized Controlled Study. Diabetes Care, 2014, 37, 1198-1203.	4.3	49
86	Variability of Insulin Requirements Over 12 Weeks of Closed-Loop Insulin Delivery in Adults With Type 1 Diabetes. Diabetes Care, 2016, 39, 830-832.	4.3	49
87	Evaluation of a portable ambulatory prototype for automated overnight closed-loop insulin delivery in young people with type 1 diabetes. Pediatric Diabetes, 2012, 13, 449-453.	1.2	48
88	Assessing Performance of Closed-Loop Insulin Delivery Systems by Continuous Glucose Monitoring: Drawbacks and Way Forward. Diabetes Technology and Therapeutics, 2013, 15, 4-12.	2.4	48
89	Prandial Hypertriglyceridemia in Metabolic Syndrome Is Due to an Overproduction of Both Chylomicron and VLDL Triacylglycerol. Diabetes, 2013, 62, 4063-4069.	0.3	47
90	Pharmacokinetics of Insulin Aspart in Pump-Treated Subjects With Type 1 Diabetes: Reproducibility and Effect of Age, Weight, and Duration of Diabetes. Diabetes Care, 2013, 36, e173-e174.	4.3	47

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91	Advances in artificial pancreas systems. Science Translational Medicine, 2019, 11, .	5.8	46
92	Continuous subcutaneous insulin infusion therapy and multiple daily insulin injections in type 1 diabetes mellitus: a comparative overview and future horizons. Expert Opinion on Drug Delivery, 2016, 13, 389-400.	2.4	45
93	Parental Attitudes Towards Overnight Closed-Loop Glucose Control in Children with Type 1 Diabetes. Diabetes Technology and Therapeutics, 2010, 12, 35-39.	2.4	44
94	Experiences of closedâ€loop insulin delivery among pregnant women with Type 1 diabetes. Diabetic Medicine, 2017, 34, 1461-1469.	1.2	44
95	IGF-I treatment in adults with type 1 diabetes: effects on glucose and protein metabolism in the fasting state and during a hyperinsulinemic-euglycemic amino acid clamp. Diabetes, 2000, 49, 789-796.	0.3	42
96	The Use of Continuous Glucose Monitoring Combined with Computer-Based eMPC Algorithm for Tight Glucose Control in Cardiosurgical ICU. BioMed Research International, 2013, 2013, 1-8.	0.9	42
97	Improving glycemic control in critically ill patients: personalized care to mimic the endocrine pancreas. Critical Care, 2018, 22, 182.	2.5	42
98	Parentsâ€™ experiences of caring for a young child with type 1 diabetes: a systematic review and synthesis of qualitative evidence. BMC Pediatrics, 2021, 21, 160.	0.7	41
99	Evaluating the Accuracy and Large Inaccuracy of Two Continuous Glucose Monitoring Systems. Diabetes Technology and Therapeutics, 2013, 15, 143-149.	2.4	40
100	A Model-Based Approach to Insulin Adjustment. Lecture Notes in Medical Informatics, 1991, , 239-248.	0.1	40
101	Simulation models for in silico testing of closed-loop glucose controllers in type 1 diabetes. Drug Discovery Today: Disease Models, 2008, 5, 289-298.	1.2	38
102	Effects of prolonged fasting and sustained lipolysis on insulin secretion and insulin sensitivity in normal subjects. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E454-E461.	1.8	38
103	Accuracy of Subcutaneous Continuous Glucose Monitoring in Critically Ill Adults: Improved Sensor Performance with Enhanced Calibrations. Diabetes Technology and Therapeutics, 2014, 16, 97-101.	2.4	38
104	Health professionals' views about who would benefit from using a closedâ€loop system: a qualitative study. Diabetic Medicine, 2020, 37, 1030-1037.	1.2	38
105	Real-time continuous glucose monitoring in preterm infants (REACT): an international, open-label, randomised controlled trial. The Lancet Child and Adolescent Health, 2021, 5, 265-273.	2.7	38
106	Fully automated closed-loop glucose control compared with standard insulin therapy in adults with type 2 diabetes requiring dialysis: an open-label, randomized crossover trial. Nature Medicine, 2021, 27, 1471-1476.	15.2	38
107	Hybrid closed-loop glucose control compared with sensor augmented pump therapy in older adults with type 1 diabetes: an open-label multicentre, multinational, randomised, crossover study. The Lancet Healthy Longevity, 2022, 3, e135-e142.	2.0	38
108	Suspended insulin infusion during overnight closedâ€loop glucose control in children and adolescents with Typeâ€ƒ1 diabetes. Diabetic Medicine, 2010, 27, 480-484.	1.2	37

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109	Absorption patterns of meals containing complex carbohydrates in type 1 diabetes. Diabetologia, 2013, 56, 1108-1117.	2.9	37
110	Quantitative Measurement of 3-O-Methyl-D-glucose by Gas Chromatography-MassSpectrometry as a Measure of Glucose TransportIn Vivo. , 1996, 31, 961-966.		34
111	Roadmap to the artificial pancreas. Diabetes Research and Clinical Practice, 2006, 74, S178-S182.	1.1	34
112	Technology in the management of type 2 diabetes: Present status and future prospects. Diabetes, Obesity and Metabolism, 2021, 23, 1722-1732.	2.2	34
113	A consultation system for insulin therapy. Computer Methods and Programs in Biomedicine, 1990, 32, 303-310.	2.6	33
114	Five-compartment model of insulin kinetics and its use to investigate action of chloroquine in NIDDM. American Journal of Physiology - Endocrinology and Metabolism, 1993, 265, E162-E175.	1.8	33
115	DIASâ€"the diabetes advisory system: an outline of the system and the evaluation results obtained so far. Computer Methods and Programs in Biomedicine, 1997, 54, 49-58.	2.6	33
116	Accuracy of Continuous Glucose Monitoring During Three Closed-Loop Home Studies Under Free-Living Conditions. Diabetes Technology and Therapeutics, 2015, 17, 801-807.	2.4	33
117	Cambridge hybrid closed-loop algorithm in children and adolescents with type 1 diabetes: a multicentre 6-month randomised controlled trial. The Lancet Digital Health, 2022, 4, e245-e255.	5.9	33
118	Causal probabilistic network modelingâ€"illustration of its role in the management of chronic diseases. IBM Systems Journal, 1992, 31, 635-648.	3.1	32
119	Fitting dynamic models with forcing functions: Application to continuous glucose monitoring in insulin therapy. Statistics in Medicine, 2011, 30, 2234-2250.	0.8	32
120	Pharmacokinetics of Insulin Aspart in Pregnant Women With Type 1 Diabetes: Every Day Is Different. Diabetes Care, 2014, 37, e121-e122.	4.3	32
121	Womenâ€™s Experiences of Day-and-Night Closed-Loop Insulin Delivery During Type 1 Diabetes Pregnancy. Journal of Diabetes Science and Technology, 2018, 12, 1125-1131.	1.3	32
122	The impact of using a closedâ€loop system on food choices and eating practices among people with Type 1 diabetes: a qualitative study involving adults, teenagers and parents. Diabetic Medicine, 2019, 36, 753-760.	1.2	32
123	Feasibility of overnight closed-loop therapy in young children with type 1 diabetes aged 3â€“6â€…years: comparison between diluted and standard insulin strength. BMJ Open Diabetes Research and Care, 2014, 2, e000040.	1.2	31
124	Impact of liver fat on the differential partitioning of hepatic triacylglycerol into VLDL subclasses on high and low sugar diets. Clinical Science, 2017, 131, 2561-2573.	1.8	31
125	Accuracy of Continuous Glucose Monitoring During Exercise in Type 1 Diabetes Pregnancy. Diabetes Technology and Therapeutics, 2013, 15, 223-229.	2.4	30
126	Glucose Control in the Intensive Care Unit by Use of Continuous Glucose Monitoring: What Level of Measurement Error Is Acceptable?. Clinical Chemistry, 2014, 60, 1500-1509.	1.5	30

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127	Safety of closedâ€loop therapy during reduction or omission of meal boluses in adolescents with type 1 diabetes: a randomized clinical trial. Diabetes, Obesity and Metabolism, 2014, 16, 1174-1178.	2.2	29
128	Closed-loop for type 1 diabetes â€“ an introduction and appraisal for the generalist. BMC Medicine, 2017, 15, 14.	2.3	29
129	Benefits and Challenges of Current Closed-Loop Technologies in Children and Young People With Type 1 Diabetes. Frontiers in Pediatrics, 2021, 9, 679484.	0.9	29
130	In Silico Testingâ€”Impact on the Progress of the Closed Loop Insulin Infusion for Critically Ill Patients Project. Journal of Diabetes Science and Technology, 2008, 2, 417-423.	1.3	28
131	Glucose-responsive insulin delivery for type 1 diabetes: The artificial pancreas story. International Journal of Pharmaceutics, 2018, 544, 309-318.	2.6	28
132	Efficacy and Safety of Glucose Control with Space GlucoseControl in the Medical Intensive Care Unitâ€”An Open Clinical Investigation. Diabetes Technology and Therapeutics, 2012, 14, 690-695.	2.4	27
133	Feasibility of automated insulin delivery guided by continuous glucose monitoring in preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2020, 105, 279-284.	1.4	27
134	Preliminary experience of the DIAS computer model in providing insulin dose advice to patients with insulin dependent diabetes. Computer Methods and Programs in Biomedicine, 1998, 56, 157-164.	2.6	26
135	Unsupervised home use of an overnight closedâ€loop system over 3â€“4 weeks: a pooled analysis of randomized controlled studies in adults and adolescents with type 1 diabetes. Diabetes, Obesity and Metabolism, 2015, 17, 452-458.	2.2	26
136	Finding the right route for insulin delivery â€“ an overview of implantable pump therapy. Expert Opinion on Drug Delivery, 2017, 14, 1103-1111.	2.4	26
137	Bayesian hierarchical approach to estimate insulin sensitivity by minimal model. Clinical Science, 2003, 105, 551-560.	1.8	25
138	Evaluation of nonlinear regression approaches to estimation of insulin sensitivity by the minimal model with reference to Bayesian hierarchical analysis. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E167-E174.	1.8	25
139	Closed-loop insulin delivery: towards improved diabetes care. Discovery Medicine, 2012, 13, 159-70.	0.5	25
140	Interstitial glucose kinetics in subjects with type 1 diabetes under physiologic conditions. Metabolism: Clinical and Experimental, 2004, 53, 1484-1491.	1.5	24
141	Evaluating Glycemic Control Algorithms by Computer Simulations. Diabetes Technology and Therapeutics, 2011, 13, 713-722.	2.4	24
142	Population and individual minimal modeling of the frequently sampled insulin-modified intravenous glucose tolerance test. Metabolism: Clinical and Experimental, 2004, 53, 1349-1354.	1.5	23
143	Calculating glucose fluxes during meal tolerance test: a new computational approach. American Journal of Physiology - Endocrinology and Metabolism, 2007, 293, E610-E619.	1.8	23
144	Hospital Glucose Control: Safe and Reliable Glycemic Control Using Enhanced Model Predictive Control Algorithm in Medical Intensive Care Unit Patients. Diabetes Technology and Therapeutics, 2010, 12, 405-412.	2.4	23

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145	Adaptability of Closed Loop During Labor, Delivery, and Postpartum: A Secondary Analysis of Data from Two Randomized Crossover Trials in Type 1 Diabetes Pregnancy. Diabetes Technology and Therapeutics, 2018, 20, 501-505.	2.4	23
146	Evaluation of Implementation of a Fully Automated Algorithm (Enhanced Model Predictive Control) in an Interacting Infusion Pump System for Establishment of Tight Glycemic Control in Medical Intensive Care Unit Patients. Journal of Diabetes Science and Technology, 2008, 2, 963-970.	1.3	22
147	Physical Activity Energy Expenditure and Glucose Control in Pregnant Women With Type 1 Diabetes. Diabetes Care, 2013, 36, 1095-1101.	4.3	22
148	The artificial pancreas. Current Opinion in Organ Transplantation, 2020, Publish Ahead of Print, 336-342.	0.8	22
149	CODE: a deconvolution program implementing a regularization method of deconvolution constrained to non-negative values. Description and pilot evaluation. , 1998, 19, 39-53.		21
150	Training and Support for Hybrid Closed-Loop Therapy. Journal of Diabetes Science and Technology, 2022, 16, 218-223.	1.3	21
151	Adolescentsâ€™ and their parentsâ€™ experiences of using a closed-loop system to manage type 1 diabetes in everyday life: qualitative study. Chronic Illness, 2022, 18, 742-756.	0.6	21
152	Measurement delay associated with the GuardianÂ® RT continuous glucose monitoring system. Diabetic Medicine, 2010, 27, 117-122.	1.2	20
153	Meta-Analysis of Overnight Closed-Loop Randomized Studies in Children and Adults with Type 1 Diabetes: The Cambridge Cohort. Journal of Diabetes Science and Technology, 2011, 5, 1352-1362.	1.3	20
154	Evaluating Glucose Control With a Novel Composite Continuous Glucose Monitoring Index. Journal of Diabetes Science and Technology, 2020, 14, 277-283.	1.3	20
155	Use of the DIAS model to predict unrecognised hypoglycaemia in patients with insulin-dependent diabetes. Computer Methods and Programs in Biomedicine, 1996, 50, 241-246.	2.6	19
156	Insulin pump therapy in youth with type 1 diabetes: toward closed-loop systems. Expert Opinion on Drug Delivery, 2014, 11, 943-955.	2.4	19
157	Safety, efficacy and glucose turnover of reduced prandial boluses during closedâ€loop therapy in adolescents with type 1 diabetes: a randomized clinical trial. Diabetes, Obesity and Metabolism, 2015, 17, 1173-1179.	2.2	19
158	Hypoglycaemia incidence and recovery during home use of hybrid closedâ€loop insulin delivery in adults with type 1 diabetes. Diabetes, Obesity and Metabolism, 2018, 20, 2004-2008.	2.2	19
159	Lixisenatide Reduces Chylomicron Triacylglycerol by Increased Clearance. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 359-368.	1.8	19
160	Broadening the Debate About Post-trial Access to Medical Interventions: A Qualitative Study of Participant Experiences at the End of a Trial Investigating a Medical Device to Support Type 1 Diabetes Self-Management. AJOB Empirical Bioethics, 2019, 10, 100-112.	0.8	19
161	What Training, Support, and Resourcing Do Health Professionals Need to Support People Using a Closed-Loop System? A Qualitative Interview Study with Health Professionals Involved in the Closed Loop from Onset in Type 1 Diabetes (CLOuD) Trial. Diabetes Technology and Therapeutics, 2020, 22, 468-475.	2.4	19
162	Using a double blind controlled clinical trial to evaluate the function of a Diabetes Advisory System: a feasible approach?. Computer Methods and Programs in Biomedicine, 1998, 56, 165-173.	2.6	18

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163	Associations of Glucose Control with Insulin Sensitivity and Pancreatic Î²-Cell Responsiveness in Newly Presenting Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 198-203.	1.8	18
164	Insulin Administration and Rate of Glucose Appearance in People With Type 1 Diabetes. Diabetes Care, 2008, 31, 2183-2187.	4.3	18
165	Validity of triple- and dual-tracer techniques to estimate glucose appearance. American Journal of Physiology - Endocrinology and Metabolism, 2012, 302, E1493-E1501.	1.8	18
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