

1. Record Nr.	UNINA9910917791803321
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Titolo	Advances in Diabetes Technology // edited by Sarah Fishman
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031753527 3031753526
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (217 pages)
Collana	Contemporary Endocrinology, , 2523-3793
Disciplina	616.4
Soggetti	Endocrinology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Overview of Currently Available Insulin Delivery Systems -- Understanding Continuous Glucose Monitoring -- Basic Principles of Automated Insulin Delivery Systems -- Continuous Insulin Delivery Systems in the Management of Diabetes Mellitus -- Algorithmic Automated Insulin Dosing -- Diabetes Technology in the Geriatric Population -- Diabetes Do-It-Yourself (DIY) Technology -- A Historic FDA Clearance: Open Source Software and the Making of Tidepool Loop.
Sommario/riassunto	This book aims to provide the reader with a comprehensive overview of the most recent advances in the use of technology to support the treatment of diabetes. It discusses not only the evidence supporting these technologies, but also the practicalities of their use. Few resources are available to guide the clinical provider in the choice and application of glucose sensing systems and insulin delivery devices to improve clinical outcomes. Advances in Diabetes Technology is intended to provide such a resource. While the use of these technologies is relatively common in the outpatient setting, their use in the inpatient setting is becoming increasingly common. This book is designed to help the both the inpatient and outpatient clinical provider to recognize and understand diabetes technology and the ways in which it can be used during acute and critical illness. In addition, it explores software algorithms used to develop automated treatment plans and apps used by patients independently of direct involvement by

their physician. Lastly, this book discusses do-it-yourself technologies used and developed by patients outside of the traditional care setting and without the professional guidance to modify and enhance existing technologies for customized use. The use of DIY diabetes technologies is promoted on social media and has been adopted by many younger patients. Familiarity with this emerging brand of diabetes technology is needed to ensure clinicians understand their patients and their management of diabetes. .

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