

Type 2 Diabetes Medications

*ROH = Risk of Hypoglycemia

Drug Class	Examples	Mechanism of Action	Side Effects	ROH*	Contraindications
Biguanides	Metformin	Increase insulin sensitivity; Decrease hepatic gluconeogenesis	Nausea, vomiting, diarrhea, vitamin B12 deficiency, lactic acidosis (rare)	No	CKD, heart disease, liver disease, metabolic acidosis
Thiazolidinediones	Pioglitazone	Increase insulin sensitivity; Decrease hepatic gluconeogenesis	Weight gain, fluid retention, heart failure, bladder cancer risk, fractures, increase HDL	No	Heart failure, osteoporosis, history of bladder cancer
Sulfonylureas	Glipizide	Stimulate insulin secretion by inhibiting/closing beta cell ATP-sensitive K ⁺ channels	Hypoglycemia, weight gain	Yes	CKD, hepatic impairment
SGLT-2 Inhibitors	Dapagliflozin	Decrease glucose reabsorption in the kidney; Increase glucose excretion	Weight loss, thirst, increased urination, UTI risk, AKI	No	Renal impairment
DPP-4 Inhibitors	Sitagliptin	Increase GLP-1, which increases insulin secretion	GI upset, headaches, URIs, joint pain, risk of pancreatitis	No	Pancreatitis, heart failure, angioedema, DKA
GLP-1 Mimetics	Exenatide	Increase insulin secretion; Inhibit glucagon secretion	Nausea, vomiting, diarrhea, pancreatitis, weight loss, AKI	No	Pancreatitis, CKD, medullary thyroid cancer, gastroparesis
Insulin	"Basal"	Exogenous insulin provided	Weight gain	Yes	Hypokalemic drugs, dose adjusted for renal/liver failure

Medication Adherence Insulin And Diabetes

**Das, Sima,Bhowmick, Parijat,Kitmo,
Dr.**

Medication Adherence Insulin And Diabetes:

Medication Adherence Among Type 2 Diabetes Texas Medicaid Patients Using Basal Insulin Hanxi Zhang (M.S. in Pharmaceutical Sciences), 2020 This study assessed adherence to three types of basal insulins neutral protamine Hagedorn NPH first and second generation long acting insulins This retrospective study used Texas Medicaid claims from 1 1 2014 6 30 2017 for patients 18 63 years with 2 basal insulin claims Patients also had 1 claim for an oral hypoglycemic agent OHA or a glucagon like peptide 1 receptor agonist GLP 1 RA 6 months pre index no claim for premixed insulin or basal insulin different from the index insulin 12 months post index and continuous enrollment The index date was the date of the first basal insulin claim without a claim 6 months prior Switchers were additionally required to have 2 pre index claims for a basal insulin The dependent variable was 12 month adherence to index insulin using both mean and dichotomized 0 8 threshold medication possession ratio MPR and adjusted MPR aMPR Bivariate and multivariate analyses were conducted A total of 5 034 patients were included the majority being between 40 63 years 85 5% and female 65 9% While only 28 2% of patients had MPR 0 8 60 0% had aMPR 0 8 After controlling for covariates compared to second generation long acting insulin there was a significantly lower odds of adherence using MPR to NPH odds ratio OR 0 590 95% confidence interval CI 0 372 0 935 and first generation long acting insulin OR 0 762 CI 0 589 0 985 whereas there was no difference in adherence using aMPR Other factors independently associated with better adherence irrespective of the measurement used MPR vs aMPR included older age pre index basal insulin use and better OHA adherence more unique baseline medications post index fewer unique OHAs bolus insulin use and GLP 1 RA use Vial delivery was associated with higher odds of adherence only when using MPR 0 8 Switchers included 218 patients switching to a longer acting insulin and 588 switchers within first generation long acting insulin Adherence improved significantly after switching except for the aMPR based adherence in switchers to a longer acting insulin Inconsistent results from MPR and aMPR and a lack of robustness of aMPR to sensitivity analyses suggested reliability issues with the measures Comparing adherence using aMPR requires similar baseline characteristics at minimum Future development of a reliable insulin adherence measure is needed

Behavioral Medicine and Integrated Care

Melanie P. Duckworth, William T. O'Donohue, 2018-10-12 This evidence to practice volume deftly analyzes the processes and skills of integrating mental healthcare with primary care using multiple perspectives to address challenges that often derail these joint efforts Experts across integrative medicine offer accessible blueprints for smoothly implementing data based behavioral interventions from disease management strategies to treatment of psychological problems into patient centered cost effective integrated care Coverage highlights training and technology issues key healthcare constructs that often get lost in translation and other knowledge necessary to create systems that are rooted in and contribute to a robust evidence base Contributors also provide step by step guidelines for integrating behavioral health care delivery in treating cancer dementia and chronic pain Among the topics covered The epidemiology of medical diseases and associated behavioral risk

factors Provider training recognizing the relevance of behavioral medicine and the importance of behavioral health consultations and referrals Screening for behavioral health problems in adult primary care Health care transformation the electronic health record Meeting the care needs of patients with multiple medical conditions Smoking cessation in the context of integrated care This depth of clinical guidance makes Behavioral Medicine and Integrated Care an essential reference for practitioners on all sides of the equation including health psychologists and other professionals in health promotion disease prevention psychotherapy and counseling and primary care medicine *McCance & Huether's Pathophysiology - E-Book* Julia Rogers, 2022-08-03 NEW More than 50 new or revised illustrations visually reinforce pathophysiology concepts NEW Emerging Science boxes highlight the most current research and clinical developments

Developmental Aspects of Health Compliance Behavior Norman A. Krasnegor, Leonard Epstein, Suzanne B. Johnson, Sumner J. Yaffe, Leonard H. Epstein, 2013-05-13 While in the late 1970s and early 1980s health compliance research on adults represented a vigorous field of study a marked decline of interest on the topic set in during the last part of the 1980s By contrast research on health compliance involving pediatric populations was less popular during the same period however interest in this topic as evidenced by the contributions to this volume is on the increase Four main themes relating to theory measurement prevention and intervention emerge and are interwoven among the chapters These themes help to bind and unify the volume into a conceptual whole because although the sections are divided along thematic lines contributors often include elements of some or all of the themes in their chapters This state of affairs reflects the interdependence of these thematic issues and suggests how important they are for the state of the art **The Handbook of Behavioral Medicine** David I. Mostofsky, 2014-03-25 Handbook of Behavioral Medicine presents a comprehensive overview of the current use of behavioral science techniques in the prevention diagnosis and treatment of various health related disorders Features contributions from a variety of internationally recognized experts in behavioral medicine and related fields Includes authors from education social work and physical therapy Addresses foundational issues in behavioral medicine in Volume 1 including concepts theories treatments doctor patient relationships common medical problems behavioral technologies assessment and methodologies Focuses on medical interface in Volume 2 including issues relating to health disorders and specialties social work medical sociology and psychosocial aspects and topics relating to education and health 2 Volumes **Pharmacist's Handbook: A Guide to Medication Therapy and Patient Care** Malek Yahya Albishri, Khaled Qablan Alharbi, Ahmed Saeed Alzahrani, Yazeed Habib Almutairi, The Pharmacist's Handbook is an instant classic for the pharmacist who wants to maximize medication therapy management MTM and patient care In the multifaceted world of healthcare we live in today pharmacists are an essential part of the healthcare team whose efforts help ensure safe and effective medication use promote health and achieve better patient outcomes This book equips the clinical pharmacist with the tools knowledge and practical strategies to help overcome any challenging scenario you may encounter in practice A

preview of the Handbook's purpose and objectives The handbook aims to provide pharmacists with information that fully supports them in delivering quality care to patients in the context of an everchanging health system This resource provides clinical decision making information and patient counseling based on best practice We also need to reemphasize building positive relationships with patients and healthcare providers and fellow team members of the interdisciplinary team MTM The Future of Healthcare in the Vial of Medicine MTM optimizes patient outcomes in the growing complexity of drug therapeutics Pharmacists are the experts who analyze monitor and adjust medication therapies to ensure patients receive the best therapy at the lowest risk As medication therapy managers pharmacists help to prevent adverse drug events hospital readmissions and medication non adherence leading in the end to improved health outcomes and decreased health care costs

Ettinger's Textbook of Veterinary Internal Medicine - eBook Stephen J. Ettinger, Edward C. Feldman, Etienne Cote, 2024-01-03 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Now Ettinger's trusted all in one veterinary resource is even better Trusted by small animal veterinarians for more than 50 years Ettinger's Textbook of Veterinary Internal Medicine adds new content on the field's leading issues and trends to its unmatched gold standard coverage of the diagnosis and treatment of medical problems of dogs and cats Coverage begins with the basics of veterinary medicine followed by sections on differential diagnosis for chief complaints and for clinicopathologic abnormalities and continues with techniques minimally invasive interventional therapies critical care toxicology diseases by body system and comorbidities Clinical information is presented in a way that reflects the practitioner's thought process With each purchase of this two volume print book Ettinger's includes access to a fully searchable eBook featuring more than 750 videos that bring procedures to life UNIQUE 50th anniversary edition of this classic textbook NEW Coverage of the latest information and trends includes epilepsy aerodigestive disorders patient triage and stabilization enteric protozoal diseases pulmonary thromboembolism point of care ultrasounds immunodeficiencies and more More than 750 original clinical videos are included with purchase of the print book providing content you can believe in Forget those time consuming searches on YouTube as each video expertly breaks down veterinary procedures and important signs of diseases and disorders that are difficult or impossible to understand from written descriptions alone NEW PDFs in Techniques chapters include a printable pull list of the equipment and materials needed for specific techniques along with check boxes accessed through eBook included with print purchase eBook version is included with purchase of the print book allowing you to access all the text figures and references with the ability to search customize content make notes and highlights and have content read aloud The eBook also offers the complete collection of original video clips heart sounds client information sheets and hyperlinking of references to their source abstracts in PubMed NEW Additional new material is included on nutritional cardiomyopathy coronavirus infections host microbial interactions in gastrointestinal health and autonomic nervous system disorders More than 200 clinical algorithms aid in disease identification and decision making Fully

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The Handbook of Health Behavior Change, Fifth Edition Marisa E. Hilliard, Kristin A. Riekert, Judith K. Ockene, Lori Pbert, 2018-04-28 This revised and updated fifth edition of the highly acclaimed gold standard textbook continues to provide a foundational review of health behavior change theories research methodologies and intervention strategies across a range of populations age groups and health conditions It examines numerous complex and often co occurring factors that can both positively and negatively influence people's ability to change behaviors to enhance their health including intrapersonal interpersonal sociocultural environmental systems and policy factors in the context of leading theoretical frameworks Beyond understanding predictors and barriers to achieving meaningful health behavior change the Handbook provides an updated review of the evidence base for novel and well supported behavioral interventions and offers recommendations for future research New content includes chapters on Sun Protection Interventions With the Family System and the Role of Technology in Behavior Change Throughout the textbook updated reviews emphasize mobile health technologies and electronic health data capture and transmission and a focus on implementation science And the fifth edition like the previous edition provides learning objectives to facilitate use by course instructors in health psychology behavioral medicine and public health The Handbook of Health Behavior Change Fifth Edition is a valuable resource for students at the graduate and advanced undergraduate level in the fields of public or population health medicine behavioral science health communications medical sociology and anthropology preventive medicine and health psychology It also is a great reference for clinical investigators behavioral and social scientists and healthcare practitioners who grapple with the challenges of supporting individuals families and systems when trying to make impactful health behavior change

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KEY FEATURES The most comprehensive review of behavior change interventions Provides practical empirically based information and tools for behavior change Focuses on robust behavior theories multiple contexts of health behaviors and the role of technology in health behavior change Applicable to a wide variety of courses including public health behavior change preventive medicine and health psychology Organized to facilitate curriculum development and includes tools to assist course instructors including learning objectives for each chapter

Diabetes Digital Health and Telehealth David C. Klonoff, David

Kerr, Elissa R. Weitzman, 2022-08-05 *Diabetes Digital Health and Telehealth* explains from technologic economic and sociologic standpoints how digital health and telehealth have come to dominate the management of diabetes The book also includes information on improved telemedicine tools and platforms for communicating with patients reviewing medical records and interpreting data from wearable devices In addition evolving wearable sensors such as continuous glucose monitors closed loop automated insulin delivery systems cuffless blood pressure monitors exercise monitors and smart insulin pens are covered Covers advances in the fields of digital health and telehealth including research methods relevant types of evidence and viable endpoints for assessing the clinical and economic benefits of digital health and telehealth for diabetes Discusses improved telemedicine tools and platforms for communicating with patients reviewing medical records and interpreting data from wearable devices Analyzes information gaps research methods relevant types of evidence and viable endpoints for assessing the clinical and economic benefits of digital health and telehealth for diabetes *The Oxford Handbook of Health Communication, Behavior Change, and Treatment Adherence* Leslie R. Martin, M. Robin DiMatteo, 2014

This edited volume brings together top notch scientists and practitioners to illustrate intersections between health communication behavior change and treatment adherence *Adherence to Pediatric Medical Regimens* Michael A. Rapoff, 2010 It used to be called noncompliance and the patients themselves referred to as difficult But regardless of the terminology children s reluctance or failure to commit to prescribed regimens reduces the effectiveness of treatment often leading to additional care higher costs and serious even deadly complications Reflecting a single authoritative voice the Second Edition of *Adherence to Pediatric Medical Regimens* analyzes in comprehensive clinical detail the factors that affect children s and teens commitment to treatment from developmental issues to the influence of parents peers and others in their orbit and offers empirically sound guidelines for encouraging adherence It cautions against viewing young clients as miniature grownups or scaling down adult data advocating instead for a more nuanced understanding of the population and a collaborative relationship between practitioner and client Critical areas of interest to clinicians and researchers in pediatrics are brought into clear focus as the book Provides an overview of adherence rates to chronic and acute disease regimens and examines common adherence problems in children and adolescents Details consequences of nonadherence and correlates of adherence Critiques major adherence theories and their clinical implications Discusses the range of adherence assessment measures Reviews educational behavioral and other strategies for improving adherence Offers ways to translate research into pediatric medical adherence This updated edition of *Adherence to Pediatric Medical Regimens* is an essential reference for anyone concerned with improving health outcomes in young people especially clinicians researchers and graduate students in psychiatry as well as pediatric clinical child and health psychology **Revolutionizing Healthcare Treatment**

With Sensor Technology Das, Sima, Bhowmick, Parijat, Kitmo, Dr., 2024-05-28 Traditional patient care and treatment approaches often lack the personalized and interactive elements necessary for effective healthcare delivery This means that

the healthcare industry must find innovative solutions to improve patient outcomes enhance rehabilitation processes and optimize resource utilization There is a gap between the traditional approach and the need for innovation that highlights the importance of a comprehensive understanding of emerging technologies including Kinect Sensor technology and the potential to transform healthcare practices with this tech Revolutionizing Healthcare Treatment With Sensor Technology addresses this critical need by thoroughly exploring how Kinect Sensor technology can revolutionize patient care and treatment methodologies By repurposing and customizing Kinect Sensor for healthcare applications this book showcases how depth sensing cameras infrared sensors and advanced motion tracking can capture and interpret real time patient movements and interactions This book is ideal for healthcare professionals hospital administrators researchers patients caregivers and healthcare technology developers seeking to leverage Kinect Sensor technology for enhanced healthcare delivery Through detailed case studies and practical examples experts can learn how to integrate Kinect Sensor into various medical settings to gain valuable insights into patients physical capabilities monitor their progress and create personalized treatment plans

Lubkin's Chronic Illness Larsen,2017-12 *Lubkin s Chronic Illness Tenth Edition* is an essential text for nursing students who seek to understand the various aspects of chronic Illness affecting both patients and families Important Notice The digital edition of this book is missing some of the images or content found in the physical edition

Dementia and Chronic Disease Angela Georgia Catic,2020-06-11 This book is designed to guide all physicians in long term care in and outpatient settings who work with elders with co current dementia and medical comorbidities Chapters cover a wide range of challenging topics including epidemiological data evaluation and management techniques to optimize physical and cognitive function in patients with dementia safety measures and nonpharmacologic measures to support cognition Chapters also discuss the unique aspects of managing the most common chronic diseases and the management of musculoskeletal pain in elders with dementia Except for the introductory chapter each chapter will include a case vignette to highlight some of the primary challenges of management of the particular chronic disease condition in elders with dementia making this an accessible and highly practical tool for medical professionals of all backgrounds Written by experts in the field *Dementia and Chronic Disease* is an excellent resource for all medical professionals treating patients with dementia including geriatricians family medicine physicians social workers nurses hospitalists and all others

Medical-Surgical Nursing Sharon L. Lewis, RN, PhD, FAAN,Linda Bucher,Margaret M. Heitkemper, RN, PhD, FAAN,Shannon Ruff Dirksen, RN, PhD,2013-12-02 Over the past three decades more and more nursing educators have turned to *Lewis Medical Surgical Nursing* for its accurate and up to date coverage of the latest trends hot topics and clinical developments in the field of medical surgical nursing and the new ninth edition is no exception Written by a dedicated team of expert authors led by Sharon Lewis *Medical Surgical Nursing 9th Edition* offers the same easy to read style that students have come to love along with the timely and thoroughly accurate content that educators have come to trust Completely revised and updated content explores patient care in various

clinical settings and focuses on key topics such as prioritization critical thinking patient safety and NCLEX exam preparation Best of all a complete collection of interactive student resources creates a more engaging learning environment to prepare you for clinical practice Highly readable format gives you a strong foundation in medical surgical nursing Content written and reviewed by leading experts in the field ensures that the information is comprehensive current and clinically accurate Bridge to NCLEX Examination review questions at the end of each chapter reinforce key content while helping you prepare for the NCLEX examination with both standard and alternate item format questions UNIQUE Levels of Care approach explains how nursing care varies for different levels of health and illness More than 50 comprehensive nursing care plans in the book and online incorporate NIC NOC and current NANDA diagnoses defining characteristics expected outcomes specific nursing interventions with rationales evaluation criteria and collaborative problems Over 800 full color illustrations and photographs clearly demonstrate disease processes and related anatomy and physiology NEW Unfolding case studies included throughout each assessment chapter help you apply important concepts and procedures to real life patient care NEW Managing Multiple Patients case studies at the end of each section give you practice applying your knowledge of various disorders and help you prioritize and delegate patient care NEW Informatics boxes discuss how technology is used by nurses and patients in health care settings NEW Expanded coverage of evidence based practice helps you understand how to apply the latest research to real life patient care NEW Expanded Safety Alerts throughout the book cover surveillance for high risk situations NEW Separate chapter on genetics expands on this key topic that impacts nearly every condition with a focus on the practical application to nursing care of patients NEW Expanded coverage of delegation includes additional Delegation Decisions boxes covering issues such as hypertension and postoperative patient care NEW Genetic Risk Alerts and Genetic Link headings highlight specific genetic issues related to body system assessments and disorders NEW Revised art program enhances the book s visual appeal and lends a more contemporary look throughout

[A Clinician's Guide to Helping Children Cope and Cooperate with Medical Care](#) Keith J. Slifer, 2013-12-01 How adults can help children cope with routine and traumatic medical care Keith J Slifer a pediatric psychologist at the Kennedy Krieger Institute and the Johns Hopkins University School of Medicine explores how adults can help children cope with routine and traumatic medical care He draws on practice and research to help health care practitioners provide better care for children with chronic conditions and children undergoing rehabilitation after traumatic injury or surgery By better understanding the behavior emotions and developmental challenges of children health care professionals in practice and in training can solve a range of problems from getting a distressed child to cooperate with a physical examination or diagnostic test to teaching a child to adhere to medical self care More than 9 million children in the United States regularly visit health care professionals for treatment of chronic or recurrent health conditions These children experience multiple doctors visits trips to the emergency department hospital admissions anesthesia surgery medications needle sticks wound cleaning seizures nausea vomiting pain and fear While most

of these children are developing typically in terms of their intellectual and cognitive functioning many children with intellectual developmental and physical disabilities also require frequent medical care and as chronic health conditions increase so do the chances of having developmental learning emotional and behavioral problems A Clinician's Guide to Helping Children Cope and Cooperate with Medical Care will benefit health care professionals and children as practitioners aim both to improve medical care and to prevent the children's behavior from disrupting clinics and distressing and frustrating health care workers and family caregivers This book is for pediatric psychologists pediatricians family medicine practitioners physician's assistants nurse specialists pediatric subspecialists and students in these fields and for family members dedicated to helping their children cope with medical procedures and to getting the best possible medical care

Smart Healthcare, Clinical Diagnostics, and Bioprinting Solutions for Modern Medicine Jain, Parag, Tripathi, Nitin Kumar, 2025-05-13 The concept of smart healthcare is considerably optimistic thanks to the applications of artificial intelligence as well as augmented and virtual reality AR VR which work in tandem to enhance better results and better delivery of care The algorithm developed with the help of modern technology is aimed at analyzing and interpreting a significant volume of clinical healthcare data with the aim of enhancing diagnosis and practices Additionally 3 dimensional 3D bioprinting is revolutionizing healthcare by fabricating biological tissues and organs for clinical regenerative medicine and surgical advances Thus personalized medicine can go a step further with providing clinical treatments that have specific doses and drugs combinations of the patients in need Smart Healthcare Clinical Diagnostics and Bioprinting Solutions for Modern Medicine explores the revolution that smart healthcare is having on the improvement of management of hospitals through increased operational efficiency adequate conformation of resources and smooth patient flows It advances processes that are utilized in clinical diagnosis with the aid of predictive modelling with best practices Covering topics such as disease prediction remote healthcare monitoring and intelligent healthcare supply chains this book is an excellent resource for policymakers clinicians information technologists data scientists biomedical engineers professionals researchers scholars academicians and more

The Massachusetts General Hospital Handbook of Behavioral Medicine Ana-Maria Vranceanu, Joseph A. Greer, Steven A. Safren, 2016-11-17 This text outlines the importance of biopsychosocial factors in improving medical care and illustrates evidence based state of the art interventions for patients with a variety of medical conditions Each chapter is focused on a particular health concern or illness which is described both in terms of prevalence and frequent psychological and psychiatric comorbidities that may present to clinicians working with these populations Consistent with evidence based care information on the efficacy of the treatments being described is presented to support their continued use To accommodate the needs of clinicians we describe population specific approaches to treatment including goal settings modules and skills as well as strategies to assess and monitor progress To facilitate learning each chapter contains one or more case examples that explicate the skills described to convey change within a behavioral

medicine protocol Each chapter also includes resources in the form of books and websites to gain additional knowledge and detail as needed Authors are experts in the field of each chapter ensuring that information presented is recent and of high quality

Proceedings of the 6th International Conference of Health Polytechnic Surabaya (ICoHPS 2023) Triwiyanto Triwiyanto, Slamet Wardoyo, Ayu Puspitasari, Sari Luthfiah, 2023-12-23 This is an open access book the Health Polytechnic of Surabaya POLTEKKES KEMENKES SURABAYA Ministry of Health Republic of Indonesia is pleased to announce the 6 th International Conference of Health Polytechnic Surabaya ICoHPS on 19 20 September 2023 at Surabaya Virtual Zoom Meeting The theme is Health Resilience System Transformation to raise innovation in health science and technology This conference will bring all scholars scientists epidemiologists medical doctors nurses allied health professionals and even politicians to share their expertise to attain a workable approach to dealing with the Covid 19 ICoHPS is a joint conference which consists of several tracks including The 3rd International Conference on Nursing and Public Health ICoNPH The 3rd International Conference on Midwifery ICoMid The 3rd International Conference on Medical Laboratory Technology ICoMLT The 3rd International Conference on Environmental Health ICoEH The 3rd International Conference on Nutrition ICoN The 3rd International Conference on Dental and Oral Health ICoDOH

Advanced Data Analytics in Health Philippe J. Giabbanelli, Vijay K. Mago, Elpiniki I. Papageorgiou, 2018-04-20 This book introduces readers to the methods types of data and scale of analysis used in the context of health The challenges of working with big data are explored throughout the book while the benefits are also emphasized through the discoveries made possible by linking large datasets Methods include thorough case studies from statistics as well as the newest facets of data analytics data visualization modeling and simulation and machine learning The diversity of datasets is illustrated through chapters on networked data image processing and text in addition to typical structured numerical datasets While the methods types of data and scale have been individually covered elsewhere by bringing them all together under one umbrella the book highlights synergies while also helping scholars fluidly switch between tools as needed New challenges and emerging frontiers are also discussed helping scholars grasp how methods will need to change in response to the latest challenges in health

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Medication Adherence Insulin And Diabetes Introduction

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