

FIRST-LINE Therapy is Metformin and Comprehensive Lifestyle (including weight management and physical activity)



INDICATORS OF HIGH-RISK OR ESTABLISHED ASCVD, CKD, OR HF\*

CONSIDER INDEPENDENTLY OF BASELINE A1C, INDIVIDUALIZED A1C TARGET, OR METFORMIN USE\*

**+ASCVD/Indicators of High Risk**

- Established ASCVD
- Indicators of high ASCVD risk (age  $\geq 65$  years with coronary, cerebral, or lower extremity artery disease  $>50\%$ , or LVD)

GLP-1 RA with proven CVD benefit<sup>1</sup> **OR** SGLT2 with proven CVD benefit<sup>2</sup>

If A1C above target

If further intensification is required or patient is unable to tolerate GLP-1 RA and/or SGLT2, choose agents demonstrating CV benefit and/or safety:

- For patients on a GLP-1 RA, consider adding SGLT2 with proven CVD benefit and vice versa<sup>3</sup>
- TZD<sup>4</sup>
- DPP-4 if not on GLP-1 RA
- Basal insulin<sup>5</sup>
- SU<sup>6</sup>

**+HF**

Particularly HF<sup>7</sup> (LVEF  $<45\%$ )

SGLT2 with proven benefit in this population<sup>8,9</sup>

**+CKD**

DND and Albuminur<sup>10</sup>

**PREFERABLY**

SGLT2 with primary evidence of reducing CKD progression

**OR**

SGLT2 with evidence of reducing CKD progression in CVT<sup>11</sup>

**OR**

GLP-1 RA with proven CKD benefit<sup>12</sup> if SGLT2 not tolerated or contraindicated

For patients with T2D and CKD (e.g., eGFR  $<60$  mL/min/1.73 m<sup>2</sup>) and those at increased risk of cardiovascular events

GLP-1 RA with proven CVD benefit<sup>1</sup> **OR** SGLT2 with proven CVD benefit<sup>2</sup>

NO

IF A1C ABOVE INDIVIDUALIZED TARGET PROCEED AS BELOW

**COMPELLING NEED TO MINIMIZE HYPOGLYCEMIA**

DPP-4	GLP-1 RA	SGLT2	TZD
If A1C above target	If A1C above target	If A1C above target	If A1C above target
SGLT2 <b>OR</b> TZD	SGLT2 <b>OR</b> TZD	GLP-1 RA <b>OR</b> DPP-4 <b>OR</b> TZD	SGLT2 <b>OR</b> DPP-4 <b>OR</b> GLP-1 RA

If A1C above target

Continue with addition of other agents as outlined above

If A1C above target

Consider the addition of SU<sup>6</sup> OR basal insulin:

- Choose later generation SU with lower risk of hypoglycemia
- Consider basal insulin with lower risk of hypoglycemia<sup>13</sup>

**COMPELLING NEED TO MINIMIZE WEIGHT GAIN OR PROMOTE WEIGHT LOSS**

GLP-1 RA with good efficacy for weight loss<sup>14</sup> **OR** SGLT2

If A1C above target

If A1C above target

SGLT2 **OR** GLP-1 RA with good efficacy for weight loss<sup>14</sup>

If A1C above target

If quadruple therapy required, or SGLT2 and/or GLP-1 RA not tolerated or contraindicated, use regimen with lowest risk of weight gain

**PREFERABLY**

DPP-4 (if not on GLP-1 RA) based on weight neutrality

If DPP-4 not tolerated or contraindicated or patient already on GLP-1 RA, cautious addition of:

- SU<sup>6</sup> + TZD<sup>4</sup> + Basal insulin

**COST IS A MAJOR ISSUE<sup>15</sup>**

SU<sup>6</sup> **OR** TZD<sup>4</sup>

If A1C above target

TZD<sup>4</sup> **OR** SU<sup>6</sup>

If A1C above target

Health therapy based insulin with lowest acquisition cost

**OR**

Consider other therapies based on cost

1. Proven CVD benefit means it has label indication of reducing CVD events

2. Low dose may be better tolerated though less well studied for CVD effects

3. Dapagliflozin or Glibenclamide have demonstrated CVD safety

4. Choose later generation TZD to lower risk of hypoglycemia; glibenclamide has shown similar CV safety to DPP-4

5. Be aware that SGLT2 labeling varies by region and individual agent with regard to individual level of eGFR for initiation and continued use

6. Dapagliflozin, empagliflozin, and deglucosylate have shown reduction in HF and to reduce CKD progression in CVT. Dapagliflozin and empagliflozin have primary renal outcome data. Dapagliflozin and empagliflozin have others have shown safety data

7. Proven benefit means it has label indication of reducing heart failure in this population

8. Refer to Section 11: Microvascular Complications and Foot Care

9. Dapagliflozin / glibenclamide (D-900 + glibenclamide 100) / dapagliflozin + DPP-4 insulin

10. Sempagliflozin + empagliflozin + dapagliflozin + empagliflozin + dapagliflozin

11. For specific contraindications (e.g., in established CKD), low risk of hypoglycemia, and lower priority to avoid weight gain or no weight-related contraindications

12. Consider country- and region-specific cost of drugs. In some countries TZDs are relatively more expensive and DPP-4 are relatively cheaper

13. Activated whenever these become new clinical considerations regardless of background glucose lowering medications

14. Most patients enrolled in the relevant trials were on metformin or baseline or glucose lowering therapy

# **Ada Diabetes Guidelines Summary**

**American Medical Association**



# Ada Diabetes Guidelines Summary

The American Diabetes Association/JDRF Type 1 Diabetes Sourcebook Anne L. Peters, Lori M. Laffel, 2013-03-29 The American Diabetes Association JDRF Type 1 Diabetes Sourcebook serves as both an evidence based reference work and consensus report outlining the most critical components of care for individuals with type 1 diabetes throughout their lifespan. The volume serves not only as a comprehensive guide for clinicians but also reviews the evidence supporting these components of care and provides a perspective on the critical areas of research that are needed to improve our understanding of type 1 diabetes diagnosis and treatment. The volume focuses specifically on the needs of patients with type 1 diabetes and provides clear and detailed guidance on the current standards for the optimal treatment of type 1 diabetes from early childhood to later life. To accomplish the book's editorial goals, Editors in Chief Drs Anne Peters and Lori Laffel assembled an editorial steering committee of prominent research physicians, clinicians, and educators to develop the topical coverage. In addition, a Managing Editor was brought on to help the authors write and focus their chapters.

**Hypoglycemia in Diabetes** Philip Cryer, 2016-07-12 Intended for diabetes researchers and medical professionals who work closely with patients with diabetes, this newly updated and expanded edition provides new perspectives and direct insight into the causes and consequences of this serious medical condition from one of the foremost experts in the field. Using the latest scientific and medical developments and trends, readers will learn how to identify, prevent, and treat this challenging phenomenon within the parameters of the diabetes care regimen. Psychosocial Care for People with Diabetes Deborah Young-Hyman, Mark Peyrot, 2012-12-25 Psychosocial Care for People with Diabetes describes the major psychosocial issues which impact living with and self management of diabetes and its related diseases and provides treatment recommendations based on proven interventions and expert opinion. The book is comprehensive and provides the practitioner with guidelines to access and prescribe treatment for psychosocial problems commonly associated with living with diabetes.

Diagnosis of diabetes, 2004 **Diabetes and Hypertension** Samy I. McFarlane, George L. Bakris, 2012-10-19 Diabetes and hypertension have evolved as two of the modern day epidemics affecting millions of people around the world. These two common comorbidities lead to a substantial increase in cardiovascular disease, the major cause of morbidity and mortality of adults around the world. In Diabetes and Hypertension: Evaluation and Management, a panel of renowned experts address a range of critical topics from basic concepts in evaluation and management of diabetes and hypertension such as dietary interventions to evaluation and management of secondary hypertension in clinical practice. Other chapters focus on high cardiovascular risk populations such as those with coronary heart disease, chronic kidney disease, and minority patients. In addition, evolving concepts and new developments in the field are presented in other chapters such as prevention of type 2 diabetes and the epidemic of sleep apnea and its implication for diabetes and hypertension evaluation and management. An

important title covering two of the most troubling disorders of our time Diabetes and Hypertension Evaluation and Management will provide the busy practitioner with cutting edge knowledge in the field as well as practical information that can translate into better care provided to the high risk population of diabetics and hypertensive patients The Diabetic Foot Robert Hinchliffe, Matt Thompson, Nicolaas Schaper, Ramesh Tripathi, Carlos Timaran, 2014-09-08 The incidence of diabetes is increasing both in the western world and in developing countries type 2 diabetes increase is partly the result of greater obesity Diabetes can cause two major problems to the foot diabetic neuropathy resulting in nerve damage and peripheral vascular disease reducing the flow of blood These can result in ulceration of the foot which needs careful management to avoid the possibility of amputation This management is best undertaken by multidisciplinary teams using the latest evidence to support their practice This book presents a comprehensive and authoritative coverage of the latest evidence based investigations techniques and management of the diabetic foot Evidenced based management of the diabetic foot International multidisciplinary team of editors and contributors Comprehensive reference for all health professionals involved in the care of diabetic foot problems Managing Diabetes and Hyperglycemia in the Hospital Setting Boris Draznin, 2016-05-20 As the number of patients with diabetes increases annually it is not surprising that the number of patients with diabetes who are admitted to the hospital also increases Once in the hospital patients with diabetes or hyperglycemia may be admitted to the Intensive Care Unit require urgent or elective surgery enteral or parenteral nutrition intravenous insulin infusion or therapies that significantly impact glycemic control e g steroids Because many clinical outcomes are influenced by the degree of glycemic control knowledge of the best practices in inpatient diabetes management is extremely important The field of inpatient management of diabetes and hyperglycemia has grown substantially in the last several years This body of knowledge is summarized in this book so it can reach the audience of hospitalists endocrinologists nurses and other team members who take care of hospitalized patients with diabetes and hyperglycemia *American Diabetes Association Complete Guide to Diabetes* American Diabetes Association, 2003 The most complete self care guide available from the leaders in diabetes information The most up to date information on New Diabetes Drugs and Insulin Achieving Blood Sugar Control Preventing Complications Handling Emergencies Testing Using a Meter Insulin Pumps Nutrition Exercise Sexuality Pregnancy Insurance And Much Much More The American Diabetes Association the nation s leading health organization supporting diabetes research information and advocacy has revised this one volume sourcebook to bring you all the information you need to live an active healthy life with diabetes This comprehensive home reference gives you information on the best self care techniques and latest medical breakthroughs No matter what type of diabetes you have this extraordinary guide will answer all your questions Find out how to Choose the best health care team for you Maintain tight control over blood glucose levels Buy use and store insulin Recognize warning signs of low blood sugar Design an effective exercise and weight loss plan Save money on supplies Maximize insurance coverage Balance family demands and

diabetes And more The Type 1 Diabetes Self-Care Manual Wood Jamie,Peters Anne,2017-11-08 The Type 1 Diabetes Self Care Manual A Complete Guide to Type 1 Diabetes Across the Lifespan for People with Diabetes Parents and Caregivers offers practical evidence based and common sense help for people with type 1 diabetes and their caregivers For the close to 1 5 million people with type 1 diabetes in the United States alone and their family and friends this book will help them understand the effects of type 1 diabetes not just when diagnosed but throughout their lifespan Dr Jamie Wood and Dr Anne Peters two of the most respected and sought after endocrinologists provide an easy to follow narrative on all aspects of the disease The Type 1 Diabetes Self Care Manual will be the go to reference for everyone touched by type 1 diabetes 2010 ADA Standards for Accessible Design Department Justice,2014-10-09 a Design and construction 1 Each facility or part of a facility constructed by on behalf of or for the use of a public entity shall be designed and constructed in such manner that the facility or part of the facility is readily accessible to and usable by individuals with disabilities if the construction was commenced after January 26 1992 2 Exception for structural impracticability i Full compliance with the requirements of this section is not required where a public entity can demonstrate that it is structurally impracticable to meet the requirements Full compliance will be considered structurally impracticable only in those rare circumstances when the unique characteristics of terrain prevent the incorporation of accessibility features ii If full compliance with this section would be structurally impracticable compliance with this section is required to the extent that it is not structurally impracticable In that case any portion of the facility that can be made accessible shall be made accessible to the extent that it is not structurally impracticable iii If providing accessibility in conformance with this section to individuals with certain disabilities e g those who use wheelchairs would be structurally impracticable accessibility shall nonetheless be ensured to persons with other types of disabilities e g those who use crutches or who have sight hearing or mental impairments in accordance with this section Dr. Neal Barnard's Program for Reversing Diabetes Neal Barnard,2018-02-27 Tackle diabetes and its complications for good with this newly updated edition of Dr Neal Barnard s groundbreaking program Revised and updated this latest edition of Dr Barnard s groundbreaking book features a new preface updates to diagnostic and monitoring standards recent research studies and fresh success stories of people who have eliminated their diabetes by following this life changing plan Before Dr Barnard s scientific breakthrough most health professionals believed that once you developed diabetes you were stuck with it and could anticipate one health issue after another from worsening eyesight and nerve symptoms to heart and kidney problems But this simply is not true Dr Barnard has shown that it is often possible to improve insulin sensitivity and tackle type 2 diabetes by following his step by step plan which includes a healthful vegan diet with plenty of recipes to get started an exercise guide advice about taking supplements and tracking progress and troubleshooting tips **Diabetes** Christopher D. Saudek,2007 **Human Dimension and Interior Space** Julius Panero,Martin Zelnik,2014-01-21 The study of human body measurements on a comparative basis is known as anthropometrics Its

applicability to the design process is seen in the physical fit or interface between the human body and the various components of interior space Human Dimension and Interior Space is the first major anthropometrically based reference book of design standards for use by all those involved with the physical planning and detailing of interiors including interior designers architects furniture designers builders industrial designers and students of design The use of anthropometric data although no substitute for good design or sound professional judgment should be viewed as one of the many tools required in the design process This comprehensive overview of anthropometrics consists of three parts The first part deals with the theory and application of anthropometrics and includes a special section dealing with physically disabled and elderly people It provides the designer with the fundamentals of anthropometrics and a basic understanding of how interior design standards are established The second part contains easy to read illustrated anthropometric tables which provide the most current data available on human body size organized by age and percentile groupings Also included is data relative to the range of joint motion and body sizes of children The third part contains hundreds of dimensioned drawings illustrating in plan and section the proper anthropometrically based relationship between user and space The types of spaces range from residential and commercial to recreational and institutional and all dimensions include metric conversions In the Epilogue the authors challenge the interior design profession the building industry and the furniture manufacturer to seriously explore the problem of adjustability in design They expose the fallacy of designing to accommodate the so called average man who in fact does not exist Using government data including studies prepared by Dr Howard Stoudt Dr Albert Damon and Dr Ross McFarland formerly of the Harvard School of Public Health and Jean Roberts of the U S Public Health Service Panero and Zelnik have devised a system of interior design reference standards easily understood through a series of charts and situation drawings With Human Dimension and Interior Space these standards are now accessible to all designers of interior environments

**Suggestions to Medical Authors and A.M.A. Style Book** American Medical Association,1919

Dietary Guidelines for Americans 2015-2020 HHS, Office of Disease Prevention and Health Promotion (U.S.),USDA , Center for Nutrition Policy Promotion (U.S.),2015-12-31 Learn more about how health nutrition experts can help you make the correct food choices for a healthy lifestyle The eighth edition of the Dietary Guidelines is designed for professionals to help all individuals ages 2 years old and above and their families to consume a healthy nutritionally adequate diet The 2015 2020 edition provides five overarching Guidelines that encourage healthy eating patterns recognize that individuals will need to make shifts in their food and beverage choices to achieve a healthy pattern acknowledge that all segments of our society have a role to play in supporting healthy choices provides a healthy framework in which individuals can enjoy foods that meet their personal cultural and traditional preferences within their food budget This guidance can help you choose a healthy diet and focus on preventing the diet related chronic diseases that continue to impact American populations It is also intended to help you to improve and maintain overall health for disease prevention NOTE This printed edition contains a minor

typographical error within the Appendix The Errata Sheet describing the errors can be found by clicking here This same errata sheet can be used for the digital formats of this product available for free Health professionals including physicians nutritionists dietary counselors nurses hospitality meal planners health policymakers and beneficiaries of the USDA National School Lunch and School Breakfast program and their administrators may find these guidelines most useful American consumers can also use this information to help make healthy food choices for themselves and their families The Pioppi Diet Dr Aseem Malhotra, Donal O'Neill, 2017-06-29 Feel great inside and out with the ground breaking anti diabetes lifestyle plan which helped Tom Watson transform his life and inspired his book Downsizing A book which has changed my life and which has the power to change the lives of millions TOM WATSON I am obsessed I feel leaner energised less bloated and more healthy I genuinely feel like this is no longer a diet plan it's just the way I eat SARA COX \_\_\_\_\_ In the tiny Italian village of Pioppi they live simple but long and healthy lives But there is no gym no supermarket the food is delicious and they enjoy a glass of wine every evening Cardiologist and world leading obesity expert Dr Aseem Malhotra Donal O'Neill have combined the wisdom of this remarkably long living population with decades of nutrition and medical research to cut through dietary myths and create this easy to follow lifestyle plan This is NOT a diet or lifestyle which requires saying no to the things you love or exercising for hours upon end In just three weeks The Pioppi Diet will help you make simple achievable and long lasting changes to how you eat sleep and move You'll still be able to indulge in delicious food while enjoying a healthier life CREAMY CRAB and RICOTTA OMELETTE with SLICED AVOCADO GRILLED HALLOUMI and KALE SALAD with TAHINI YOGHURT DRESSING STEAK BURGER with MATURE CHEDDAR TOMATO and AVOCADO CAULIFLOWER STEAKS and CRUMBLER FETA ZAZIVUK and CHILLI \_\_\_\_\_ A must have for every household Professor Dame Sue Bailey the Chair of the Academy of Medical Royal Colleges Revolutionary Richard Thompson former physician to HRH Queen Elizabeth This book has the power to make millions of people healthier and happier Andy Burnham former Secretary of State for Health

### **The Mckellar Guidelines for Managing Older People with Diabetes in Residential and Other Care Settings**

Trisha Dunning, Nicole Duggan, Sally Savage, 2014 **Global Trends 2040** National Intelligence Council, 2021-03 The ongoing COVID 19 pandemic marks the most significant singular global disruption since World War II with health economic political and security implications that will ripple for years to come Global Trends 2040 2021 Global Trends 2040 A More Contested World 2021 released by the US National Intelligence Council is the latest report in its series of reports starting in 1997 about megatrends and the world's future This report strongly influenced by the COVID 19 pandemic paints a bleak picture of the future and describes a contested fragmented and turbulent world It specifically discusses the four main trends that will shape tomorrow's world Demographics by 2040 1.4 billion people will be added mostly in Africa and South Asia Economics increased government debt and concentrated economic power will escalate problems for the poor and middleclass Climate a hotter world will increase water food and health insecurity Technology the emergence of new technologies could

both solve and cause problems for human life Students of trends policymakers entrepreneurs academics journalists and anyone eager for a glimpse into the next decades will find this report with colored graphs essential reading *Pancreas and Islet Transplantation* Nadey S. Hakim, Robert Stratta, Derek Gray, 2002 Diabetes Mellitus is the principle cause of kidney failure and blindness in adults and leads to more cases of amputation and impotence than any other disease It is one of the most common chronic diseases in childhood The aims of pancreas or islet transplantation are to improve the quality of life of patients with insulin dependent diabetes mellitus and to ameliorate secondary complications This book provides a comprehensive and international review of the recent advances in pancreas and islet transplantation It covers surgical techniques issues surrounding organ preservation immunosuppression and the control of other complications all of which contribute to the potential for such transplantations to evolve as the treatment of choice for insulin dependent diabetes The editors have compiled a strong and international team of contribution authors This book is essential reading for transplant surgeons and all those involved in researching or treating diabetes mellitus **Magic Menus** American Diabetes Association, 1996 A collection of delicious low fat calorie controlled choices for every meal

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web artificial life definition the simulation of biological phenomena through the use of computer models robotics or biochemistry

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web jan 3 2020 abstract in this article we explore how the history and myths about artificial life al inform the pursuit and reception of contemporary al technologies first we show that long before the contemporary fields of robotics and genomics ancient civilizations attempted to create al in the magical and religious pursuits of automata and alchemy

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including evolution development and learning ecology artificial societies behavior computational biology artificial chemistries information living technology art and philosophy

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web techniques cellular automata were used in the early days of artificial life and are still often used for ease of scalability and artificial neural networks are sometimes used to model the brain of an agent although traditionally more of a neuroevolution

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