

2018 Clinical Practice Guidelines for the Prevention and Management of Diabetes in Canada

The Essentials

Presented Feb.25, 2019

2018 Diabetes Canada CPG – The Essentials

Faculty/Presenter Disclosure

- Faculty: Lengim Ingram, BscPharm, EPPh, CDE
- Relationships with commercial interests:

Consultant/Advisory Board Honorarium: Sanofi, Novo Nordisk

Speaker's Honorarium: Merck, Janssen, Astra Zeneca,

Grant or other payments: Abbott, Servier, BMI



Learning Objectives

- By the end of this session, participants will be able to:
 - Understand the **major changes** within the *2018* Diabetes Canada clinical practice guidelines
 - Apply the recommendations in clinical practice
 - Use the tools in the guideline to provide better diabetes care for patients

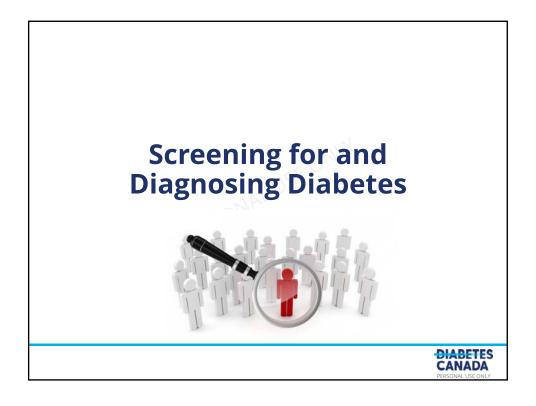


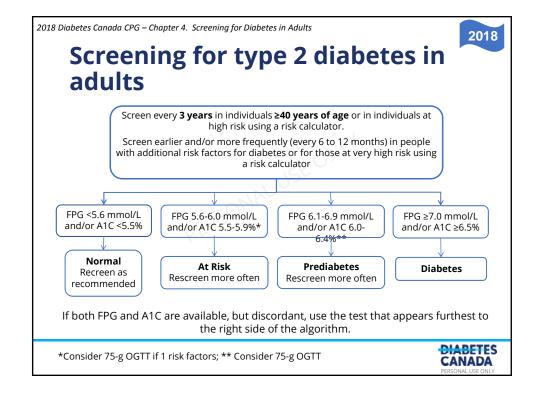
Key Message

• Throughout the guidelines remains the importance of individualizing therapy for the person with diabetes



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2018 Diabetes Canada CPG – Chapter 3. Definition, Diagnosis & Classification of Diabetes, Prediabetes, Metabolic Syndrome

Diagnosis of Diabetes

FPG ≥7.0 mmol/L

Fasting = no caloric intake for at least 8 hours

or

A1C ≥**6.5%** (in adults)

Using a standardized, validated assay in the absence of factors that affect the accuracy of the A1C and not for suspected type 1 diabetes

or

2hPG in a 75 g OGTT ≥11.1 mmol/L

or

Random PG ≥11.1 mmol/L

Random = any time of the day, without regard to the interval since the last meal

DIABETES CANADA

FPG, fasting plasma glucose; OGTT, oral glucose tolerane test; PG, plasma glucose

2018 Diabetes Canada CPG – Chapter 3. Definition, Diagnosis & Classification of Diabetes, Prediabetes, Metabolic Syndrome

Confirmatory test required

- In the absence of symptomatic hyperglycemia, if a single lab test result is in the diabetes range, a repeat confirmatory lab test (FPG, A1C, 2hPG in a 75 g OGTT) must be done on another day
- Repeat the same test (in a timely fashion) to confirm
- But a random PG in the diabetes range in an asymptomatic individual should be confirmed with an alternate test
- If results of two different tests are available and both are above the diagnostic thresholds, the diagnosis of diabetes is confirmed

2hPG, 2-hour plasma glucose; AlC, glycated hemoglobin; FPG, fasting plasma glucose; OGTT, oral glucose tolerance test; PG, plasma glucose.



Screening for and Diagnosing Diabetes	Print
Healthcare Provider Tool	
▼ Screening and Diagnosis Calculator	
Measure Fasting Plasma Glucose (FPG) and/or A1C and enter test results:	
FPG: mmol/L A1C: %	
Calculate Screening / Diagnosis Result	
▶ Risk Factors for Type 2 Diabetes	
▶ When to Screen for Diabetes	
► Screening Algorithm	
This is only to be used as a decision support tool and is subject to these terms. For more information, please see terms of use.	
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ABCDES³ of Diabetes Care

- ✓ A · A1C optimal glycemic control (usually ≤7%)
- **✓ B** · BP optimal blood pressure control (<130/80)
- ✓ C · Cholesterol LDL <2.0 mmol/L or >50% reduction
- ✓ D Drugs to protect the heart

 A ACEi or ARB S Statin A ASA if indicated SGLT2i/GLP-1 RA

 with demonstrated CV benefit if type 2 DM with CVD and A1C not at target
- ✓ E · Exercise / Healthy Eating
- √S Screening for complications
- √S Smoking cessation
- √S · Self-management, stress and other barriers



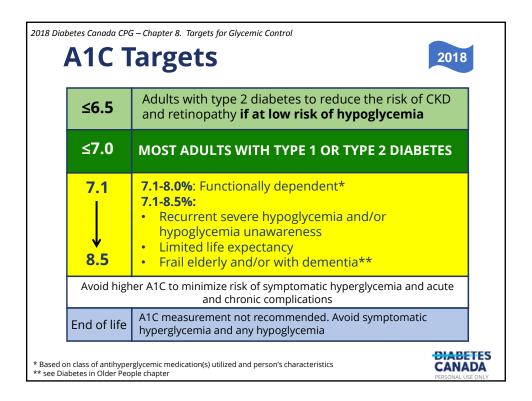
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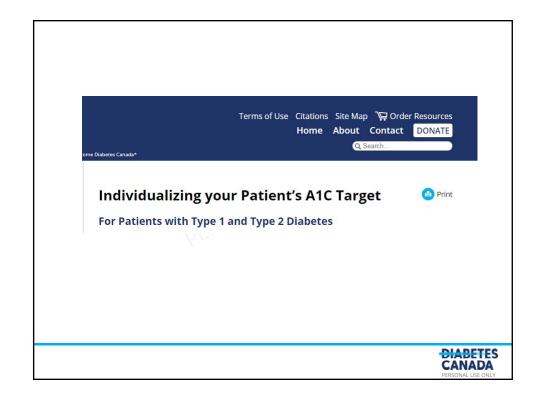


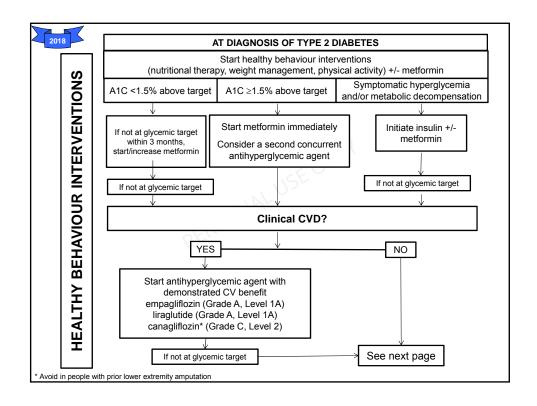
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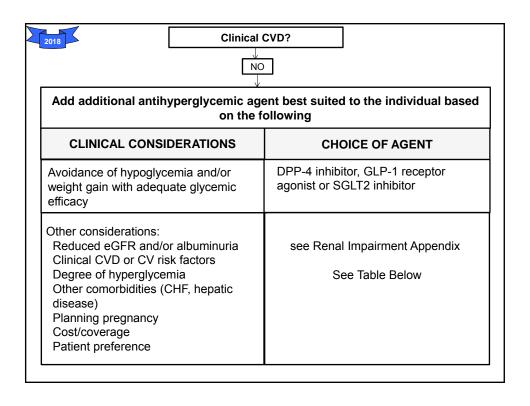
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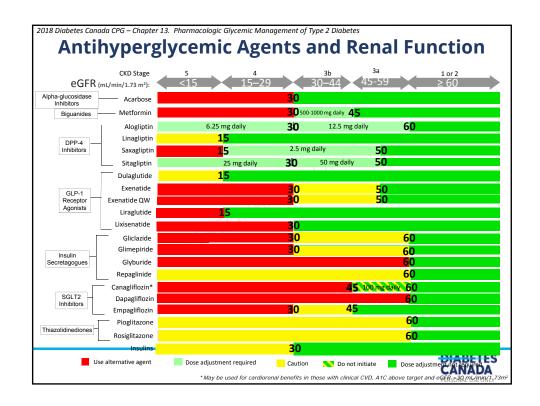


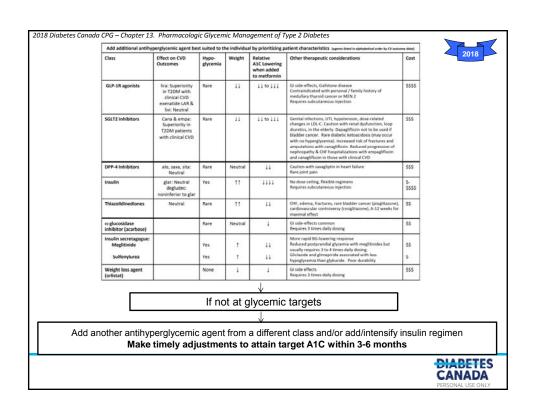












Class	Effect on CVD Outcomes	Hypo- glycemia	Weight	Relative A1C Lowering when added to metformin	Other therapeutic considerations	Cost
GLP-1R agonists	lira: Superiority in T2DM with clinical CVD exenatide LAR & lixi: Neutral	Rare	↓ ↓	↓↓ to ↓↓↓	GI side-effects, Gallstone disease Contraindicated with personal / family history of medullary thyroid cancer or MEN 2 Requires subcutaneous injection	\$\$\$\$
SGLT2 inhibitors	Cana & empa: Superiority in T2DM patients with clinical CVD	Rare	↓ ↓	↓↓ to ↓↓↓	Genital infections, UTI, hypotension, dose-related changes in LDL-C. Caution with renal dysfunction, loop diuretics, in the elderly. Dapagliflozin not to be used if bladder cancer. Rare diabetic ketoacidosis (may occur with no hyperglycemia). Increased risk of fractures and amputations with canagliflozin. Reduced progression of nephropathy & CHF hospitalizations with empagliflozin and canagliflozin in those with clinical CVD	\$\$\$
DPP-4 Inhibitors	alo, saxa, sita: Neutral	Rare	Neutral	↓ ↓	Caution with saxagliptin in heart failure Rare joint pain	
Insulin	glar: Neutral degludec: noninferior to glar	Yes	↑ ↑	↓↓↓↓	No dose ceiling, flexible regimens Requires subcutaneous injection	
Thiazolidinediones	Neutral	Rare	↑ ↑	† ‡	CHF, edema, fractures, rare bladder cancer (pioglitazone), cardiovascular controversy (rosiglitazone), 6-12 weeks for maximal effect	\$\$
α-glucosidase inhibitor (acarbose)		Rare	Neutral	\	GI side-effects common Requires 3 times daily dosing	
Insulin secretagogue: Meglitinide		Yes	↑	↓ ↓	More rapid BG-lowering response Reduced postprandial glycemia with meglitinides but usually requires 3 to 4 times daily dosing.	\$\$
Sulfonylurea		Yes	1	$\downarrow\downarrow$	Gliclazide and glimepiride associated with less hypoglycemia than glyburide. Poor durability	\$
Weight loss agent (orlistat)		None	\	\	GI side effects Requires 3 times daily dosing	\$\$\$

Types of insulin			
Insulin type (trade name)	Onset	Peak	Duration
BOLUS (prandial or mealtime) insulins			
Rapid-acting insulin analogues (clear) Insulin aspart (NovoRapid®) Insulin glulisine (Apidra®) Insulin ilspro (Humalog®) U-100 U-200 Faster-acting insulin aspart (Fiasp®)	9–20min 10–15min 10–15min 4min	1–1.5h 1–1.5h 1–2h 0.5-1.5h	3–5h 3.5–5h 3–4.75h 3-5h
Short-acting insulins (clear) Insulin regular (Humulin®-R, Novolin® ge Toronto) Insulin regular U-500 (Entuzity® (U-500)	30min 15min	2–3h 4-8h	6.5h 17-24h
BASAL insulins	•		
Intermediate-acting (cloudy) Insulin neutral protamine Hagedorn (Humulin® N, Novolin® ge NPH)	1–3h	5–8h	Up to 18h
Long-acting insulin (clear) Insulin detemir (Levemir*) Insulin glargine U-100 (Lantus*) Insulin glargine U-300 (Toujeo*) Insulin glargine biosimilar (Basaglar*) Insulin degludec U-100, U-200 (Tresiba*)	90min	Not applicable	U-100 glargine 24h, detemir 16–24h U-300 glargine >30h degludec 42h
PREMIXED insulins	•		
Premixed regular insulin –NPH (cloudy) Humulin® 30/70 Novolin® ge 30/70, 40/60, 50/50	A single vial or cartridge contains a fixed ratio of insulin (% of rapid-acting or short-acting insulin to % of intermediate-acting insulin)		
Premixed insulin analogues (cloudy) - Biphasic insulin aspart (NovoMix® 30) - Insulin lispro/lispro protamine (Humalog® Mix25 and Mix50)			

2018 Diabetes Canada CPG – Chapter 13. Pharmacologic Glycemic Management of Type 2 Diabetes



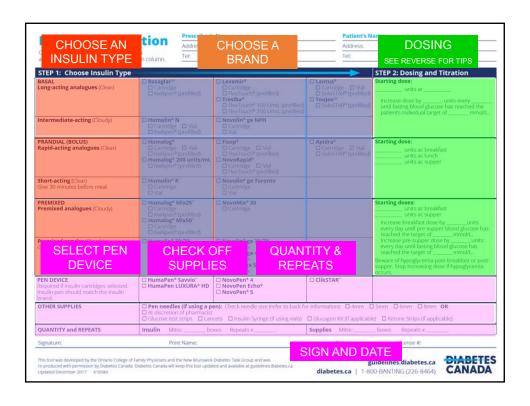
Examples of Insulin Initiation and Titration Regimens in People With Type 2 Diabetes

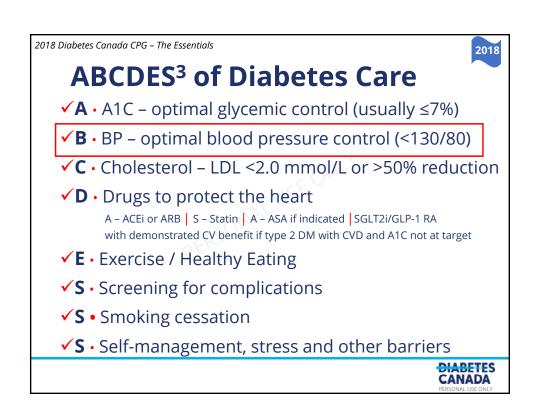
All people starting insulin should be counseled about the recognition, prevention and treatment of hypoglycemia. Consider a change in type or timing of insulin administration if glycemic targets are not being reached.

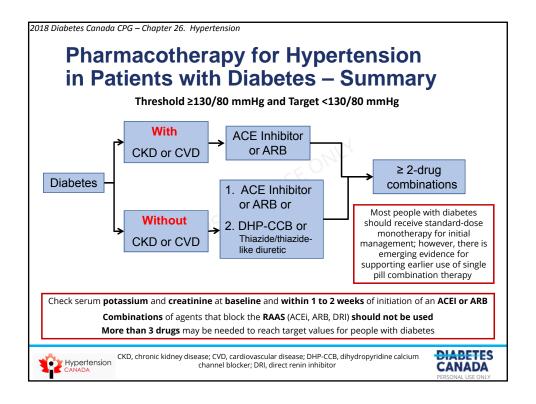
Example A: Basal insulin (degludec U-100 or U-200, detemir, glargine U-100 or U-300, NPH) added to non-insulin antihyperglycemic agents

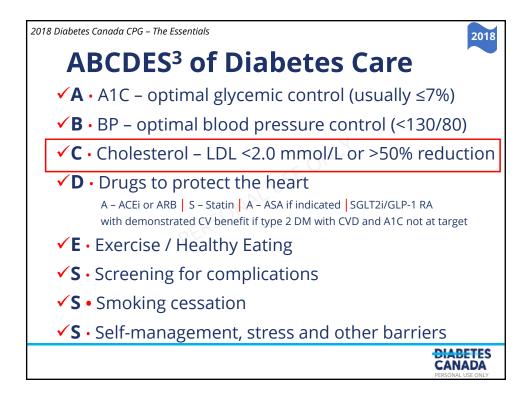
- Insulin should be titrated to achieve target fasting BG levels of 4.0 to 7.0 mmol/L or individualized targets
 (e.g. 4.0 to 5.5 mmol/L if A1C target ≤7.0% not achieved; higher fasting BG targets may be considered in some people with diabetes where the goal of avoiding hypoglycemia is important, see Chapter 8. Targets for Glycemic Control, p. S42).
- · Individuals can be taught self-titration, or titration may be done in conjunction with a health-care provider.
- · Suggested starting dose is 10 units once daily at bedtime.
- Suggested titration is 1 unit per day until target is reached. (Degludec should be titrated by 2 units every 3 to 4 days or 4 units once a week).
- · A lower starting dose, slower titration and higher targets may be considered for elderly or normal-weight subjects.
- In order to safely titrate insulin, people with diabetes must perform self-monitoring of blood glucose at least once a day fasting.
- Insulin dose should not be increased if the individual experiences 2 episodes of hypoglycemia (BG <4.0 mmol/L) in 1 week
 or any episode of nocturnal hypoglycemia.
- Non-insulin antihyperglycemic agents (especially insulin secretagogues) may need to be reduced if daytime hypoglycemia occurs.











2018 Diabetes Canada CPG – Chapter 25. Dyslipidemia

Who Should Receive Statins?

(regardless of baseline LDL-C)

- Cardiovascular disease or
- Age ≥40 yrs or
- Microvascular complications or
- DM >15 yrs duration and age >30 yr or
- Warrants therapy based on the 2016 Canadian Cardiovascular Society Guidelines for the Diagnosis and Treatment of Dyslipidemia

Among women with childbearing potential, statins should only be used in the presence of proper preconception counselling & reliable contraception. Stop statins prior to conception.



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- ✓ E · Exercise / Healthy Eating
- √S · Screening for complications
- √S Smoking cessation
- √S · Self-management, stress and other barriers



2018 Diabetes Canada CPG – Chapter 23. Cardiovascular Protection in People with Diabetes



Antihyperglycemic therapy selection

In adults with type 2 diabetes with **clinical CVD** in whom glycemic targets are not achieved with existing antihyperglycemic medication(s) and with **eGFR >30** mL/min/1.73m², an antihyperglycemic agent with demonstrated **CV outcome benefit should be added** to reduce the risk of major CV events [Grade A, Level 1A for **empagliflozin**; Grade A, Level 1A for **liraglutide**; Grade C, Level 2 for **canagliflozin**]



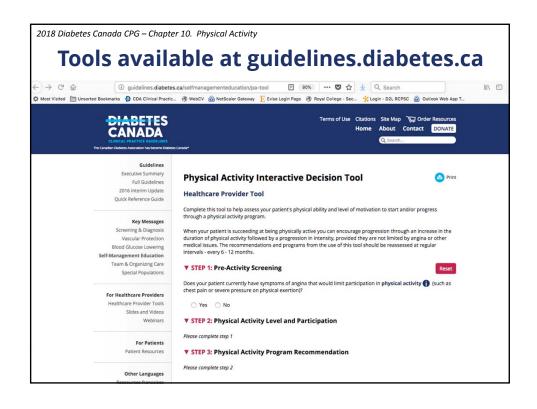
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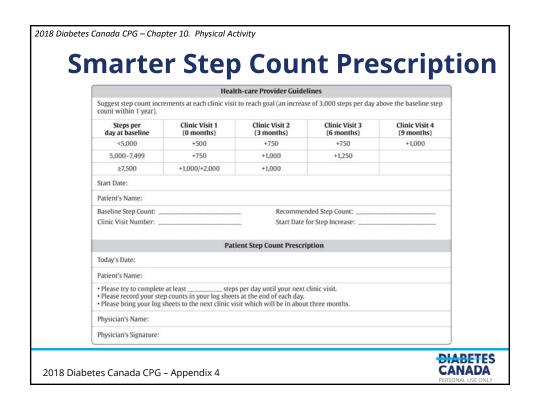


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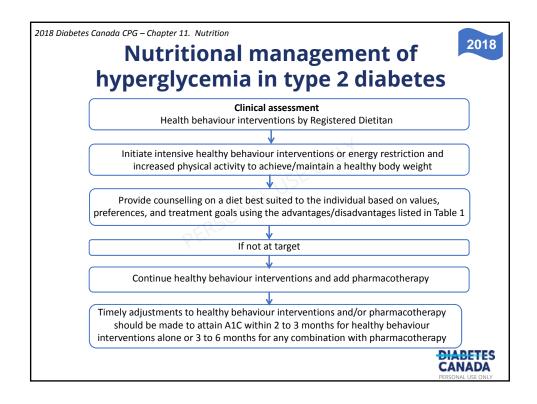


Table 1. Properties of dietary interventions Properties of dietary interventions (listed in the order they are presented in the text) Dietary interventions Macronutrient-based approaches CV benefit Other advantages Disadvantages LCVD ↓LDL-C. ↓CRP. ↓hypoglycemia. ↓diabetes Rx Low-glycemic-index diets High fibre diets High MUFA diets ↓LDL-C, ↓non-HDL-C, ↓apo B (viscous fibre) ↓Weight, ↓TG, ↓BP 1 (viscous fibre) GI side effects (transient) None ↓Micronutrients, †renal load Low-carbohydrate diets High-protein diets Mediterranean dietary pattern Alternate dietary patterns Vegetarian ↓TG. ↓BP. preserve lean mass ↓Micronutrients, ↑renal load **↓CVD** ↓retinopathy, ↓BP, ↓CRP, ↑HDL-C 1(144,249) \$CHD (151) ↓Weight (147), ↓LDL-C (148) ↓vitamin B12 ↓Weight, ↓LDL-C (157,250), ↓BP (28,157), ↓CRP ↓LDL-C (160,161), ↓CRP, ↓BP ↓LDL-C+↓non-HDL-C (167-169) DASH 1(250) ↓CHD (159) Portfolio Nordic ↓CVD (160,161) Popular weight loss diets ↓Weight, ↓TG, ↑HDL-C, ↓CRP ↓Weight, ↓TG, ↑HDL-C ↓Weight, ↓LDL-C, ↓CRP ↓Weight, ↓LDL-C, ↑HDL-C, ↓CRP ↓Weight, ↓LDL-C, ↓TG, ↑HDL-C Atkins Protein Power Plan †LDL-C, ↓micronutrients, ↓adherence ↓Micronutrients, ↓adherence, ↑renal load Ornish ↔ FPG, ↓adherence Weight Watchers Zone ↔ FPG, ↓adherence Dietary patterns of specific foods Dietary pulses/legumes Fruit and vegetables Nuts ↓Weight (177), ↓LDL-C (175), ↓BP (176) GI side effects (transient) ↓(181,182) ↓(186) ↓CVD (78) ↓CVD (142) ↓LDL-C (187,251), ↓TG, ↓FPG ↓LDL-C, FPG (oats, barley) Whole grains 1 (oats) \$\text{LCHD} (98) GI side effects (transient) Dairy Meal replacements JCVD (147,196) ↓BP, ↓TG (when replacing SSBs) Lactose intolerance (some individuals) * ↓ t = <1% decrease in A1C Adjusted for medication changes. ATC, glycated hemoglobin; qor B., apolipoprotein B; BML, body mass index; BP, blood pressure; CHD, coronary heart disease; CHO, carbohydrate; CRP, C reactive protein; CV. cardiovascular; CVD, cardiovascular disease; DASH, dietary approaches to stop hypertension; FPG, fasting plasma glucose; GI, gastrointestinal; HDL-C, high-density lipoprotein cholesterol; TG, triglycerides. DIABETES CANADA

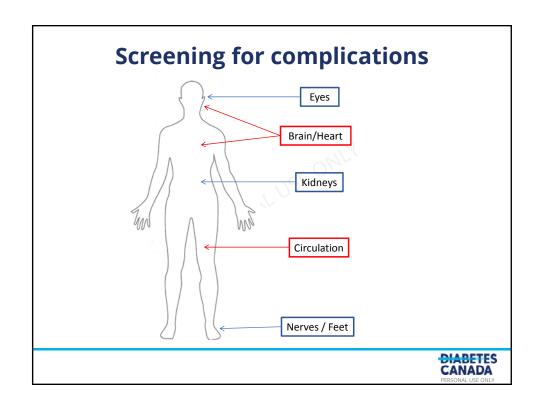
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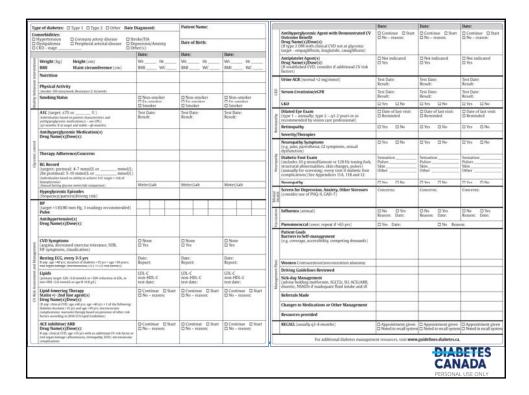


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2018 Diabetes Canada CPG – Chapter 29. Chronic Kidney Disease in Diabetes

Chronic Kidney Disease (CKD) Checklist

- ✓ **SCREEN** with random urine albumin creatinine ratio (ACR) and serum creatinine for estimated glomerular filtration rate (eGFR) **at diagnosis** then **annually** (T2D)
- ✓ **DIAGNOSE** with repeat confirmed ACR ≥2.0 mg/mmol and/or eGFR <60 mL/min
- ✓ **DELAY** onset and/or progression with glycemic and blood pressure control and ACEi or ARB
- ✓ PREVENT complications with dose adjustment, "sick day management" counselling and referral when appropriate

ACEi, angiotensin converting enzyme inhibitor; ARB, angiotensin receptor blocker



2018 Diabetes Canada CPG – Chapter 29. Chronic Kidney Disease in Diabetes Instructions for Healthcare Professionals: When you are ill, particularly if you become dehydrated If patients become ill and are unable to maintain (e.g. vomiting or diarrhea), some medicines could cause your kidney function to worsen or result in side effects. adequate fluid intake, or have an acute decline in accidate futur intake, or nave an acture decline in renal function (e.g. due to gastrointestinal upset or dehydration), they should be instructed to hold medications which will; Counsel all If you become sick and are unable to drink enough **Patients About** fluid to keep hydrated, you should **STOP** the following medications: A) Increase risk for a decline in kidney function: Angiotensin-converting enzyme inhibitor
 Angiotensin receptor blockers · Direct renin inhibitors · Blood pressure pills Water pills
 Metformin
 Diabetes pills
 Pain medications · Non-steroidal anti-inflammatory drugs · Dimetics Sick Day • SGLT2 inhibitors B) Have reduced clearance and increase risk for Non-steroidal anti-inflammatory drugs (see below) **Medication List** adverse effects:
• Metformin
• Sulfonylureas (gliclazide, glimepiride, glyburide) S sulfonvlureas **Visit** A ACE-inhibitors D diuretics, direct renin inhibitors guidelines.diabetes.ca Please be careful not to take non-steroidal anti-M metformin for patient inflammatory drugs (which are commonly found in pain medications (e.g. Advil) and cold remedies). A angiotensin receptor blockers N non-steroidal anti-inflammatory handout Please check with your pharmacist before using over-S SGLT2 inhibitors the-counter medications and discuss all changes ir medication with your healthcare professional. Please complete the following card and give it to Please increase the number of times you check your your patient, blood glucose levels. If they run too high or too low contact your healthcare professional. Patients should be instructed that increased frequency of self blood glucose monitoring will be required and adjustments to their doses of insulin or If you have any problems, you can call: oral antihyperglycemic agents may be necessary.

2018 Diabetes Canada CPG – Chapter 29. Chronic Kidney Disease in Diabetes



Role of SGLT2 inhibitor in CKD

In adults with type 2 diabetes with **clinical CVD** in whom **glycemic targets are not achieved** with existing antihyperglycemic medication(s) and who have an eGFR >30 mL/min/1.73 m2, an **SGLT2 inhibitor with proven renal benefit** may be considered to reduce progression of nephropathy [Grade B, Level 2 for empagliflozin; Grade C, Level 3 for canagliflozin]



2018 Diabetes Canada CPG – Chapter 32. Foot Care

Foot Care Checklist

- **✓ EDUCATE** about proper foot care
- ✓ **EXAMINE** for structural, vascular, neuropathy problems at diagnosis then annually
- ✓ DO a 10 gram monofilament assessment
- ✓IDENTIFY those at high risk of foot ulcers and educate, assess more frequently, consider footwear
- ✓ REFER persons with foot ulcers and other complications to those specialized in foot care



2018 Diabetes Canada CPG – Chapter 33. Sexual Dysfunction & Hypogonadism in Men with Diabetes

Erectile Dysfunction (ED) Checklist

- ✓ SCREEN all adult men regularly with sexual function history
- ✓ TREAT erectile dysfunction with PDE-5 inhibitor
 as first-line therapy (if no contraindication)
- ✓ **INVESTIGATE** for hypogonadism if men with ED do not respond to PDE-5 inhibitor therapy

PDE-5, phosphodiesterase type 5



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2018 Diabetes Canada CPG – Chapter 18. Diabetes and Mental Health

Screening for depressive and anxious symptoms is important in patients with diabetes

Purpose	Screening Tools
Diabetes-specific	Problem Areas in Diabetes (PAID) ScaleDiabetes Distress Scale (DDS)
Quality of Life	•WHO-5
Depression/Anxiety	 Hospital Anxiety and Depression Scale (HADS) Patient Health Questionnaire (PHQ-9) Beck Depression Inventory (BDI)

Websites with psychological / psychiatric scales: <u>www.phqscreeners.com</u> www.outcometracker.org/scales_library.php.



Formulate an Action Plan to support Self-management

guidelines.diabetes.ca/self managementeducation/sm eactionplan

Managing My Diabetes – My Action Plan

The change I want to make happen is:

My goal for the next month is:

Action Plan:

The specific steps I will take to reach my goal (what, when, where, how often):

Things that could make it difficult to achieve my goal:

My plan for overcoming these challenges are:

Support and resources I will need:

How important is it to me that I achieve my goal?

scale of 0 to 10, with 0 being not important at all and 10 being extremely important):

How confident am I that I can achieve my goal?

Follow-up date:



Other considerations



2018 Diabetes Canada CPG – Chapter 21. Diabetes & Driving

Diabetes and Driving

- The **fitness** of people with diabetes to drive should be assessed on an **individual** basis
- All drivers with diabetes should undergo a medical examination at least every two years to assess fitness to drive.
- People with diabetes should play an active role in assessing their fitness to drive
- Should not drive when BG <4.0 mmol/L and should wait at least 40 minutes after treatment of hypoglycemia has increased their BG level to at least 5.0 mmol/L



Special Populations



2018 Diabetes Canada CPG – Chapter 36. Diabetes and Pregnancy

Preconception Checklist for Women with Pre-existing Diabetes



- ✓ Use reliable birth control until adequate glycemic control
- ✓ Attain a preconception A1C of ≤7.0% (≤ 6.5% if safe)
- ✓ May remain on metformin + glyburide until pregnancy, otherwise switch to insulin
- ✓ Assess for and manage any diabetes complications
- ✓ Folic Acid 1 mg/d: 3 months pre-conception to at least 12 weeks gestation
- ✓ **Discontinue** potential embryopathic meds:
 - ✓ ACE-inhibitors / ARB (prior to or upon detection of pregnancy in those with significant proteinuria)
 - ✓ Statin therapy



2018 Diabetes Canada CPG - Chapter 37. Diabetes in Older People

Diabetes in the Elderly Checklist



- ✓ ASSESS for level of functional dependency (frailty)
- ✓INDIVIDUALIZE glycemic targets based on the above (A1C ≤8.5% for frail elderly) but if otherwise healthy, use the same targets as younger people
- ✓ AVOID hypoglycemia in cognitive impairment
- ✓ SELECT or ADJUST antihyperglycemic therapy carefully
 - ✓ Caution with sulfonylureas or thiazolidinediones
 - ✓DPP-4 inhibitors should be used over sulfonylureas
 - ✓ Basal analogues instead of NPH or human 30/70 insulin
- ✓ GIVE regular diets instead of "diabetic diets" or nutritional formulas in nursing homes



2018 Diabetes Canada CPG – Chapter 38. Type 2 Diabetes and Indigenous Peoples

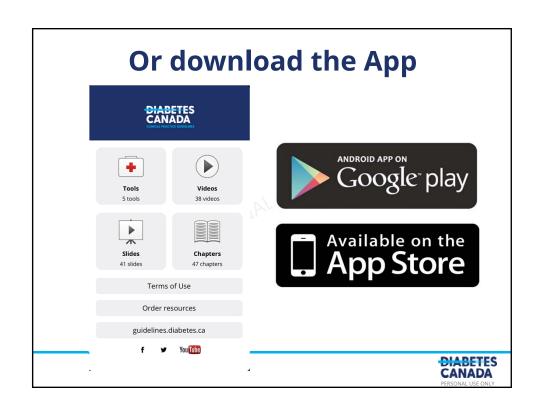
Type 2 Diabetes and Indigenous Peoples



- ✓ Among the **highest-risk** populations
- Prevention strategies are essential
- ✓ Management targets should be no different from general population
- ✓ Focus on building a therapeutic relationship
- ✓ Acknowledge the legacy of colonization and its ongoing adverse effects on Indigenous health
- ✓ Use the Educating for Equity (E4E) framework to address social barriers and identify strategies for facilitating outcomes using a cultural approach







Diabetes Canada Clinical Practice Guidelines

<u>http://guidelines.diabetes.ca</u> – for health-care providers

1-800-BANTING (226-8464)

http://diabetes.ca - for people with diabetes

