Canadian Diabetes Association Clinical Practice Guidelines

2013 Updates

These are some changes to the CDA Clinical Practice Guidelines that we thought were interesting. Naturally, this is not comprehensive.

All our information is from guidelines.diabetes.ca. Head there for more comprehensive information and to see their handy tools, which we'll point out along the way!

Changes to Diagnoses

Diagnostic Test	Positive Result for Diabetes	Notes
FPG	≥ 7.0 mmol/L	No caloric intake for ≥ 8 hours
2hPG in a 75 g OGTT	≥ 11.1 mmol/L	
Random PG	≥ 11.1 mmol/L	If used for diagnosis, must use other test for confirmation
A1C	≥ 6.5%	 Not valid: In non-elderly adults Patients with hemoglobinopathies, iron deficiencies, hemolytic anemia, severe renal/hepatic disease Patients of Asian, Hispanic, or Native American descent

Confirmed Diagnosis of Diabetes

- One positive test in presence of diabetic symptoms
- Two positive tests
- Different test on the same day
- Same test on different days

Head to the
Screening & Diagnosis
> Screening for and
Diagnosing Diabetes
for a handy tool
(...coming soon!)

The big change here is the addition of A1C!

Diagnosis of Prediabetes

FPG 6.1-6.9 mmol/L

2hPG in a
75 g OGTT 7.8-11.0 mmol/L

A1C 6.0-6.4 mmol/L

Diagnosis of Nephropathy Both Genders

Microalbuminuria ACR ≥ 2.0 mg/mmol

Macroalbuminuria ACR ≥ 20 mg/mmol



Changes to A1C Targets



≤ 7.0 %

- Some T2DM patients who require further risk reduction of nephropathy and retinopathy
- Most patients (over the age of 13 years old)



- · Limited life expectancy
- High level of functional dependency
- Extensive coronary artery disease at high risk of ischemic events
- Multiple co-morbidities

- History of recurrent severe hypoglycemia
- Hypoglycemia unawareness
- Longstanding diabetes for whom it is difficult to achieve an A1C
 ≤ 7% despite effective doses of multiple antihyperglycemic
 agents, including intensified basal-bolus insulin therapy

You'll notice that not everyone is shooting for an A1C of 7.0% now! When aiming for a target lower than 7.0%, consider the risk of hypoglycemia!



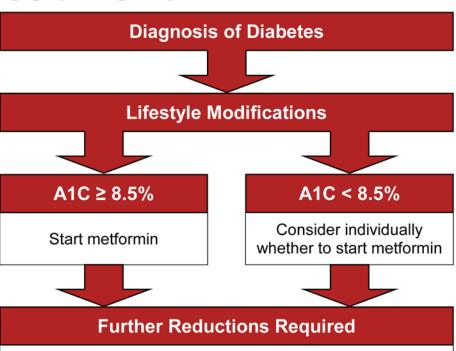
See Blood Glucose
Lowering >
Individualizing your
Patient's A1C Target
for a tool to visualize
your patient's target!

Changes to Treatment

This is much easier now!
Pretty much everyone will
start lifestyle and metformin.
After that anything is valid.

See Blood Glucose Lowering > Pharmacotherapy for Type 2
Diabetes for a tool that highlights appropriate options for your patient!





Any agent may be considered based on evidence for efficacy, A1C reductions, patient co-morbidities, etc.

Changes to Vascular Protection

This is an modified 1 page tool by

A A1C – optimal glycemic control (usually ≤ 7%) B BP – optimal blood pressure control (< 130/80 mmHg) C Cholesterol – LDL-C ≤ 2.0 mmol/L if decision made to treat D Drugs to protect the heart (see algorithm) – A ACEi or ARB E Exercise – Regular physical activity, healthy diet, achievement S Smoking cessation Does This Patient Require Vascul	• S Statin • A ASA if indicated and and maintenance of healthy body weight
STEP 1: Does the patient have end organ damage?	
Macrovascular disease Cardiac ischemia (silent or overt) Peripheral arterial disease Cerebrovascular/Carotid disease OR	+ ASA
 Microvascular disease Retinopathy Nephropathy (ACR ≥ 2.0) Neuropathy STEP 2: What is the patient's age? □ ≥ 55 years OR 	STATIN* + ACEi or ARB#
□ 40-54 years STEP 3: Does the patient □ Have diabetes > 15 years AND age > 30 years □ Warrant statin therapy based on the 2012 Canadian Cardiovascular Society Lipid Guidelines	STATIN*
The above vascular protective medications have the potential to and beyond (controversial effects in the 1st trimester), Statins the should only be used in the presence of proper preconception childbearing age. A woman's pregnancy plans should be discussed. Statins should be stopped prior to conception. ACEi or ARBs should be stopped either prior to conception or	roughout pregnancy. Therefore, these medications counseling and reliable contraception in women of ed at every visit.

ASA should not be used for the primary prevention of cardiovascular disease in people with diabetes. ASA may be used for secondary prevention.

ACR = albumin-creatinine ratio ASA = acetylsalicylic acid ACEi = angiotensin converting enzyme inhibitor ARB = angiotensin receptor blocker LDL = low density lipoprotein



^{*} Dose adjustments or additional lipid therapy warranted if lipid target (LDL-C ≤2.0 mmol/L) not being met.

[#] ACE-inhibitor or ARB (angiotensin receptor blocker) should be given at doses that have demonstrated vascular protection (ie. perindopril 8 mg once daily (EUROPA trial), ramipril 10 mg once daily (HOPE trial), telmisartan 80 mg once daily (ONTARGET trial))