Diabetes –
Diabetes: Bring your problem cases

Disclosures

- Speaker: Ting-Yu Wang, MDCM, FRCPC, Msc
- Endocrinologist:
 - St-Jean-sur-Richelieu
 - Hôpital Chinois de Montréal
 - LMC Glen
- Disclosures:
 - Advisory board/Conferences: Amgen, Astra Zeneca, Eli Lilly/Boehringer Ingelheim, Insulet, Janssen, Merck, Novo Nordisk, Sanofi-Aventis, Valeant
 - Research: Eli lilly, novo nordisk, sanofi-aventis
- My COI is not related to the topic I will be talking about
- Despite my COI my presentation will be strictly scientific and will not be influenced by any commercial interests. Slides were created by myself.

Objectives

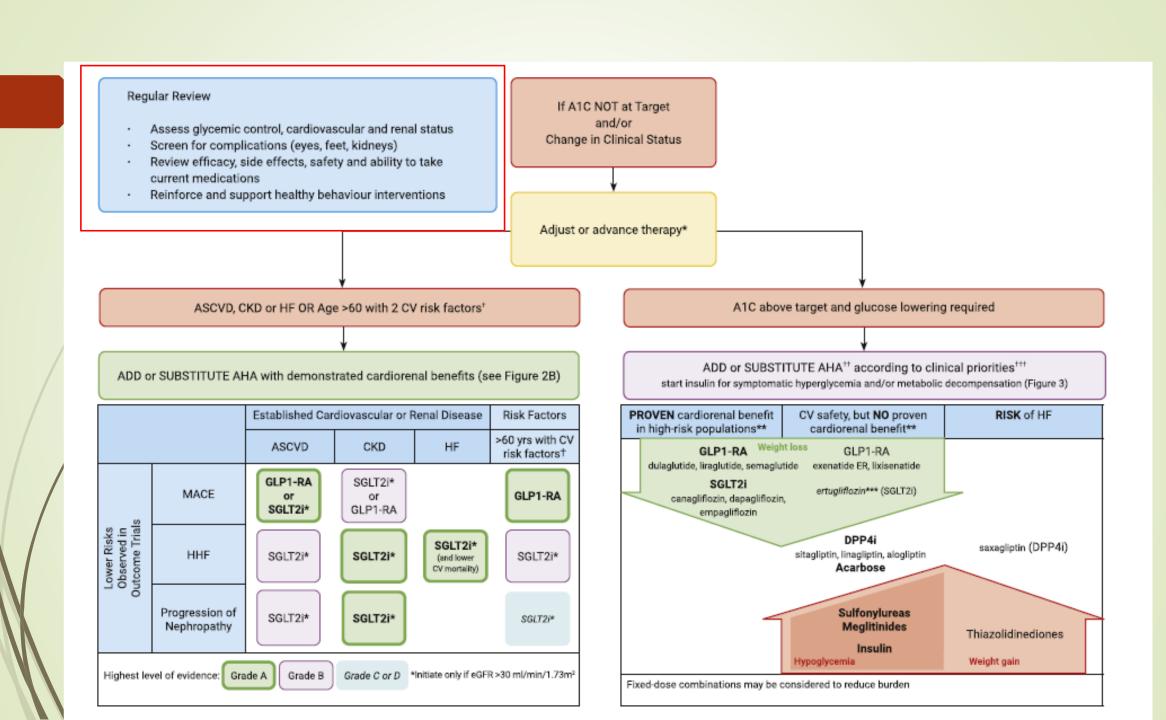
- As a result of attending this session, participants will be able to:
 - Explore the different modalities of treatment in type 2 diabetes with respect to the new Diabetes Canada guidelines
 - Discuss the CV risk protection in people with type 2 diabetes
 - Reflect on the current practice and identify opportunities to help optimise the care to patients – BRING IN YOUR PROBLEM CASES!!!

MrA

- 55M DM2 x 2010 recently moved to Montreal, and is visiting you for the first time
- ► PMH: None except DM2
- Meds:
 - Metformin 1000mg po bid
- Habits: smokes 0.5 ppd, occ EtOH
- Physical exam:
 - **■** BMI 29.5
 - BP 138/75

- Labs:
 - A1c 7.5%
 - Creat 70, eGFR over 60
 - **■** LDL 1.8
 - Alb/creat 1.0

What next?

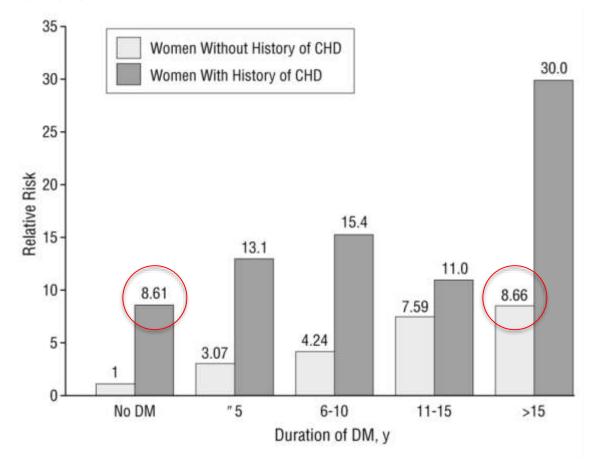


Vascular Protection Checklist

- ✓ A A1C optimal glycemic control (usually ≤7%)
- ✓B BP optimal blood pressure control (<130/80)
- √C Cholesterol LDL-C < 2.0 mmol/L or >50% reduction if treatment indicated
- ✓ D Drugs to protect the heart
 - A ACEi or ARB | S Statin | A ASA if indicated | SGLT2i / GLP-1RA with demonstrated CV benefit if type 2 DM with CVD and A1C not at target
- ✓ E Exercise / Healthy Eating
- √S Smoking cessation



Type 2 Diabetes for >15 Years Duration Confers a Similar Risk of Fatal CHD as Prior CHD and No Diabetes



20 year followup of 121,046 women aged 30 to 55 years in Nurses' Health Study



- Statins
- ACE-inhibitors or Angiotensin receptor blockers (ARB)
- Certain antihyperglycemic agents
- ASA selective use



Who Should Receive Statins?

(regardless of baseline LDL-C)

- Clinical CVD or
- Age ≥40 yrs or
- Microvascular complications or
- Diabetes >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.



What if baseline LDL-C <2.0 mmol/L?

- Irrespective of initial LDL-C
 - Patients obtain similar benefit
- If a person with diabetes qualifies for statins;
 - <2.0 mmol/L;
 - Target reduction of ≥50% in LDL-C



- Statins
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Who Should Receive ACEi or ARB Therapy?

(regardless of baseline blood pressure)

- Clinical CVD
- Age ≥55 years with an additional CV risk factor or end organ damage (albuminuria, retinopathy, left ventricular hypertrophy)
- Microvascular complications

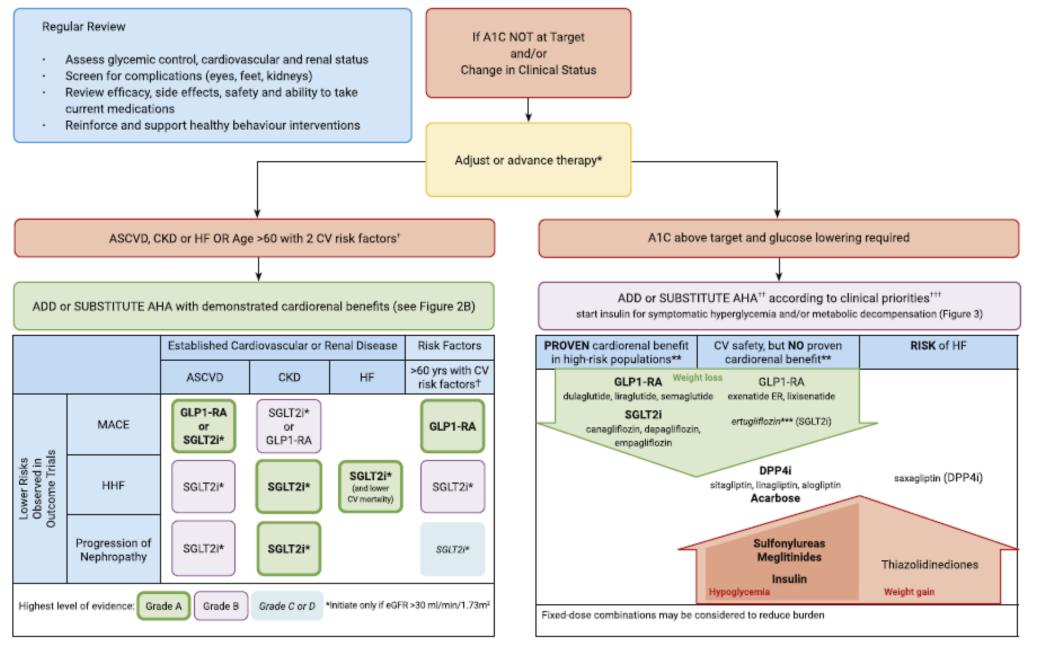
At doses that have shown vascular protection [perindopril 8 mg daily (EUROPA), ramipril 10 mg daily (HOPE), telmisartan 80 mg daily (ONTARGET)]

Among women with childbearing potential, ACEi or ARB should only be used in the presence of proper preconception counselling & reliable contraception. Stop ACEi or ARB either prior to conception or immediately upon detection of pregnancy.



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ASA Not Routinely Recommended for 1° Prevention of CVD Among People with Diabetes

Insufficient evidence to support use of ASA for primary prevention

Risk of bleeding



CVD protection



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Case discussion

