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# Useful Tips to support decision making to achieve individualised HbA1c targets with Oral hypoglycaemic agents

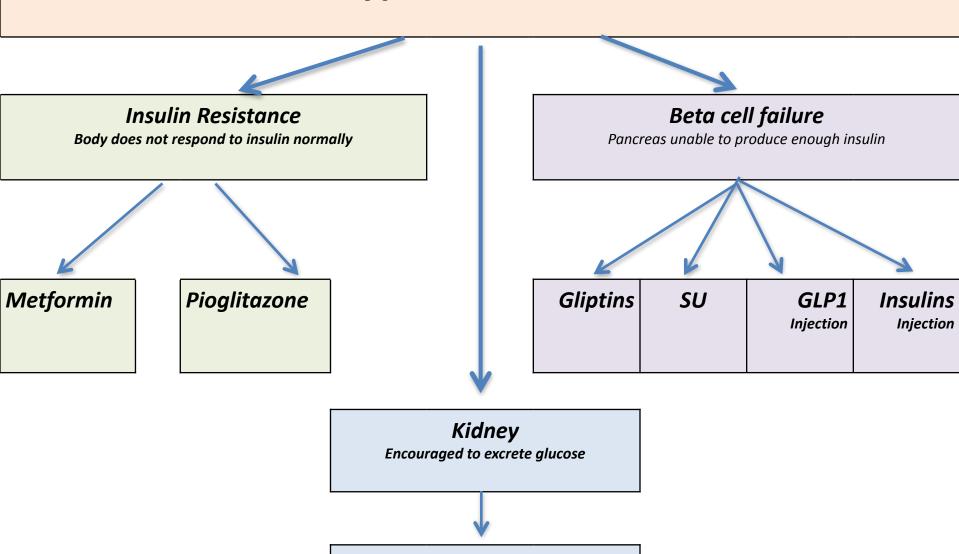
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#### **Declaration of interests**

- Presentations on behalf of Becton Dickinson, Boehringer Ingelhiem, Johnson and Johnson, Lilly and Novo Nordisk
- Participated in education advisory work with
   Becton Dickinson, Boehringer Ingelhiem, Johnson and Johnson and Lilly.
- Funded to attend educational events by Lilly, NovoNordisk, Johnson and Johnson, Takeda, Boehringer Ingelhiem

## Diabetes Decision Making Tree

#### **Type 2 Diabetes**



Flozin SGLT2i

#### Treatment Algorithm for the Management of Type 2 diabetes with Oral Therapy

eGFR related dose

Hypoglycaemia

avoidance

Driver

**Pancreatitis** 

Review HbA1c 3months after commencing a new treatment If no change or rise in HbA1c Stop Gliptin or SGLT2 inhibitor. Increase dose of Pioglitazone to 30mg. Increase Glimepiride dose and commence SBGM to facilitate further dose titration. Review HbA1c at 6 months if HbA1c has not reduced by > 6mmol/mol STOP GLIPTIN, SGLT2 INHIBITOR and PIOGLITAZONE(45mg not indicated if no response to 30mg)

**Gliptin** 

Add to

Metformin and

Glimepiride Metformin

and pioglitazone

Lifestyle advice focusing on Healthy eating and increased physical activity to be explored at diagnosis

Referral to structured education programme and Dietitian to be discusse		
First line	Metformin	
	If BMI >25 or 23 if South Asian (SA), eGFR >45 and If HbA1c	If Sympton

**NICE** guidance recommends

Which ever not commenced first line

SBGM with glimepiride for drivers

Metformin

eGFR<45 max dose

1gram

eGFR < 30

**Contraindicated** 

**Pioglitazone** 

Add to

Metformin and Cana/

**Empa** 

Metformin and Gliptin

If HbA1c >59mmol /mol or above individualised target after 6 months on triple therapy refer for injectable therapy

Glimepiride

Hypoglycaemia

Glimepiride

if not previously

tried

Commence SBGM

Second line

HbA1c >48mmol/

mol

after 3 months treatment

**Indications** 

**Contraindications** 

**Cautions** 

Third line

HbA1c>59mmol/mol or

individualised target

500mg once daily post main meal titrating to maximum tolerated dose or 2 grams daily over 4 weeks. Modified release to be used if concordance or side effects an issue Glimepiride or Metformin **Gliptin Pioglitazone** 

ed **SU** (Glimepiride ) >48mmoI/moI 3 months post diagnosis

omatic ( no ketonuria) **or** BMI< 25 (23 if south asian) **Or** Metformin Contraindicated

**Facilitates Weight** 

loss

Hypoglycaemia

avoidance

eGFR<60

History of thrush/UTI

**Over 75** 

**Postural Hypotension** 

Fluid depletion

Insulin

Refer

Commence Blood

Glucose Monitoring

Ref: Speaker's own interpretation of BNF and NICE 2009 guidelines

**Persistent** 

Symptoms or

minimal response

to SU

GLP1

Refer

Commence Blood

Glucose

Monitoring

SBGM to be commenced to facilitate dose titration and detect hypoglycaemia **SGLT2** Inhibitor Insulin

15mg once daily to be increased to 30mg after

3 months if no impact on

HbA1c

Insulin resistance

South Asian

Driver

**Congestive cardiac** 

failure

History of Ca Bladder

Osteoporosis or

Osteomalacia

Canagliflozin or

**Empaglifozin** 

Add to

Metformin and pioglitazone

Metformin and glimepiride

#### Group work

- For each case study given please identify a treatment pathway.
- Use the treatment template to ask yourself questions to narrow options
- Use prescribing guidance to help answer the questions
- Complete all 3 steps
- Once agreed record option son a flip chart

#### **Preferred Treatment plan**

First line incl. target Hba1c

Type 2 diabetes due to?

Second line incl. target Hba1c

Can't have

Third line incl. target
Hba1c

**Could use** 

- Age 68
- Diagnosed 4/12 referred to XPERT
- Has seen dietitian in the surgery
- BMI 31
- Caucasian
- eGFR 64 (MI/min/1.73m²)
- HbA1c 61mmol/mol

#### Case 2

- Age 48 Diagnosed 4/12 declined to XPERT
- Has seen dietitian in the surgery
- BMI 31
- South Asian
- eGFR 64(MI/min/1.73m²)
- HbA1c 61mmol/mol

- Age 38
- Diagnosed 4/12 –declined XPERT
- Has seen dietitian in the surgery
- BMI 38
- Caucasian
- eGFR 90(MI/min/1.73m²)
- HbA1c 70mmol/mol

- Age 44
- Diagnosed 4/12 referred to XPERT
- Has seen dietitian in the surgery
- BMI 31
- South Asian
- eGFR 90(MI/min/1.73m²)
- HbA1c 70mmol/mol

- Age 80
- Diagnosed 4/12 referred to XPERT
- Has seen dietitian in the surgery
- BMI 27
- Caucasian
- eGFR 55(MI/min/1.73m²)
- HbA1c 62mmol/mol

- Age 60
- Diagnosed 4/12 declined XPERT
- Has seen dietitian in the surgery
- BMI 35
- South Asian
- eGFR 90(MI/min/1.73m²)
- HbA1c 75 mmol/mol

## Equipment needed

- Flip chart stand and flipchart paper
- Marker pens
- 10 copies of slide 6
- Copies of slide 7 − 18 plus 1 for each delegate
- Copies of slides 4 and 5 for each delegate