

PRIMARY CARE ISSUES & ANSWERS

CHECKLIST

The checklist below may be used as a prompt when reviewing medical records and/or during the initial consultation with the patient.

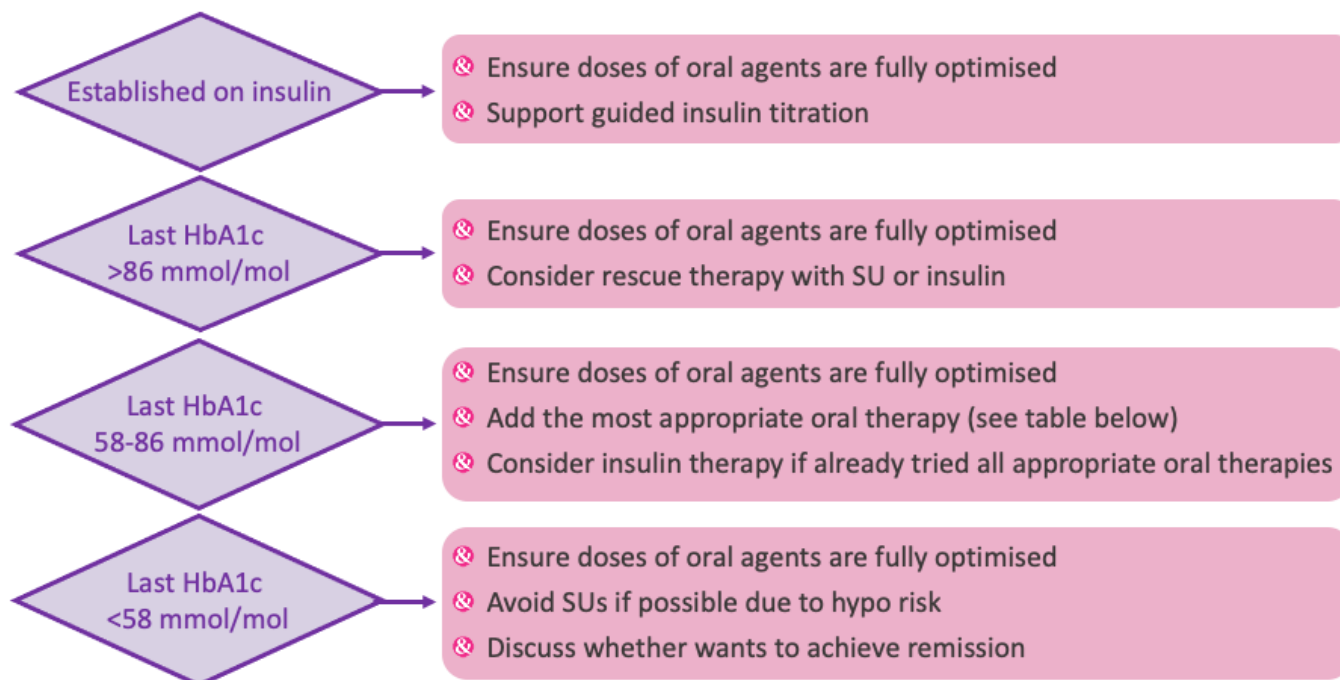
- ☐ Check date of T2D diagnosis and duration.
- ☐ Check last HbA1c - if over 6 months ago repeat (also note latest eGFR/ACR, BMI, CV risk status). If recent escalation of treatment, consider repeating if over 3 months ago.
- ☐ Decide on an appropriate HbA1c target for individual (taking account of the person's preferences and needs, duration of diabetes, co-morbidities, frailty status, life expectancy).
- ☐ Are there any signs of worsening glycaemic control (eg. increasing thirst, passing urine more frequently, tiredness) which would suggest need for immediate review/rescue therapy?
- ☐ Does individual perform self-monitoring of glucose? If so, assess results.
- ☐ Which GLP-1 RA is currently being prescribed – record start date, HbA1c reductions and weight loss over time (if an appropriate clinical response, consider adding individual to a register for re-starting GLP-1 RA therapy in the future when supply issues are resolved).
- ☐ What is person's lived experience on all current therapy? (Are they satisfied with measured outcomes: HbA1c reduction, weight loss? Have they experienced any tolerability problems?)
- ☐ Is there scope to reinforce advice about diet and lifestyle (consider local services and referral pathways to support this)?
- ☐ Review current medications – check adherence and consider if there is scope to titrate doses of existing glucose-lowering agents.
- ☐ List all previously prescribed diabetes medications - record start date and response in terms of HbA1c reduction. Determine why agents were stopped (note any adverse effects, tolerability issues, poor efficacy). Have circumstances altered? Can re-prescribing be considered?
- ☐ Consider individual clinical circumstances eg., co-morbidities, cautions/contraindications, weight and risks from polypharmacy and identify any classes of glucose-lowering medication that would be contraindicated and those that should be used with caution.
- ☐ Identify classes of glucose-lowering medication most suited to the individual taking account of the following:
 - Glucose-lowering potency required (high-moderate-low)
 - CV risk status
 - Existing heart failure
 - CKD stage/eGFR
 - BMI/weight
 - Risks associated with hypoglycaemia (eg. occupation, driving)

See "[Oral glucose-lowering therapies by class](#)"

The focus here is mainly on glycaemic management but this is a good opportunity to perform a holistic review of all care processes.

USEFUL INFORMATION

Reiterate lifestyle guidance and check medication adherence for all



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| Type 2 diabetes remission | <ul style="list-style-type: none"> & Remission less likely with Type 2 diabetes >6 years and in individuals managed with insulin therapy & Requires motivation (and knowledge of local service provision and referral pathways) |
| Metformin | <p>RECOMMENDED FIRST-LINE OPTION</p> <ul style="list-style-type: none"> & Moderate glycaemic efficacy & Weight loss + & Low risk of hypoglycaemia & ASCVD benefit & GI side effects common <ul style="list-style-type: none"> ➤ Where there have been tolerability problems previously - was modified release version tried, if not worth trying this or using a lower dose. ➤ Caution in hepatic failure & alcoholism. ➤ Advise patient to temporarily stop during any acute dehydrating illness (give robust sick day guidance). ➤ Reduce dose to 500 mg bd if eGFR 30-45 and avoid if eGFR <30. |

USEFUL INFORMATION

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| SGLT2i | <p>RECOMMENDED AS FIRST-LINE OPTION (WITH OR WITHOUT METFORMIN) IN THOSE WITH ESTABLISHED CVD, HEART FAILURE AND/OR CKD</p> <ul style="list-style-type: none"> & Moderate glycaemic efficacy (but minimal where eGFR<45) & Weight loss ++ & Low risk of hypoglycaemia & ASCVD, HF and CKD benefit & Mycotic genital infections and UTIs may occur <ul style="list-style-type: none"> ➤ MHRA (2019a) warns of rare reports of Fournier's gangrene; reinforce good personal hygiene and adequate hydration. MHRA (2017) warns of possible class effect of lower limb amputation (predominantly toe); avoid all SGLT2 inhibitors in those with active/past diabetic foot disease or symptomatic peripheral vascular disease. MHRA (2016) warns of euglycaemic DKA; if suspected, check ketones even if BG. ➤ Advise patient to temporarily stop during any acute dehydrating illness (sick day guidance). ➤ Avoid ketogenic or starvation diet. ➤ Use with caution in very high HbA1c (>86 mmol/mol) and if insulin treated within 1 year of diagnosis. |
| DPP4i | <ul style="list-style-type: none"> & Low/moderate glycaemic efficacy & Weight neutral & Low risk of hypoglycaemia & Well-tolerated <ul style="list-style-type: none"> ➤ Possible increase in pancreatitis (NOTE: Same with GLP1 RA). |
| Pioglitazone | <ul style="list-style-type: none"> & Moderate glycaemic efficacy & Weight gain ++ & Low risk of hypoglycaemia & Possible CV benefit & Beneficial effect in fatty liver & Can cause fluid retention <ul style="list-style-type: none"> ➤ Contraindicated in heart failure, caution in macular oedema. ➤ Avoid in severe hepatic impairment ➤ Increases fracture risk – caution/avoid in post-menopausal women ➤ Possible link with bladder cancer and contraindicated in uninvestigated haematuria and bladder cancer (dipstick urine before starting). |

USEFUL INFORMATION

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| Sulfonylurea | <p>RAPID EFFECT TO LOWER BLOOD GLUCOSE LEVELS - USEFUL AS RESCUE THERAPY WHERE GLUCOSE HIGH AND SYMPTOMATIC</p> <ul style="list-style-type: none"> & High glycaemic efficacy & Weight gain + & High risk of hypoglycaemia & No CV benefit & Useful as rescue therapy for symptomatic hyperglycaemia <ul style="list-style-type: none"> ➤ Efficacy dependant on sufficient residual β-cells function ➤ Self-blood glucose monitoring required for all to assist dose titration and identify hypoglycaemia. Avoid in frailty. Give driving and hypoglycaemia advice. |
| Insulin | <p>USEFUL AS RESCUE THERAPY WHERE GLUCOSE HIGH AND SYMPTOMATIC (and inadequate response to SU or where SU not appropriate)</p> <ul style="list-style-type: none"> & High glycaemic efficacy & Weight gain + & High risk of hypoglycaemia & No CV benefit <ul style="list-style-type: none"> ➤ Where insulin therapy is clinically indicated, initiate in line with NICE NG28 principles: https://www.nice.org.uk/guidance/ng28/chapter/recommendations-insulin-based-treatments. ➤ Specific insulin brands recommended within NICE NG28 may not have capacity for large uplift in prescribing, so base decisions on choice on ongoing insulin availability within the SPS supply tool: https://www.sps.nhs.uk/articles/prescribing-available-insulins/ <p>Insulin therapy should only be initiated and managed by healthcare professionals with the relevant expertise and training</p> |

Adapted from: What next after metformin? A GPnotebook Shortcut. Diabetes & Primary Care 22: 33–4 available at: [dotn767835b99d7d90d9aae5068e8362eae.pdf \(diabetesonthenet.com\)](https://www.gpnotebook.com/shortcuts/diabetes/what-next-after-metformin?ref=diabetesonthenet.com)

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