SET GLYCAEMIC TARGET: HbA1c < 7% (53 mmol/mol) OR INDIVIDUALISED AS AGREED 1st LINE In ADDITION to lifestyle measures **USUAL APPROACH ALTERNATIVE APPROACH: if osmotic symptoms or intolerant of metformin METFORMIN* SULPHONYLUREA*** The following are also accepted by the SMC for first-line use where metformin and sulphonylureas are not tolerated: **EFFICACY** MODERATE HIGH • canagliflozin, dapagliflozin or empagliflozin (SGLT2 inhibitors); **CV BENEFIT** YES ONCE NO • linagliptin, sitagliptin or vildagliptin (DPP-4 inhibitors); • pioglitazone (thiazolidinedione) OSMOTIC LOW **HYPOGLYCAEMIA RISK** HIGH **SYMPTOMS** IF SEVERE OSMOTIC SYMPTOMS WITH **WEIGHT REDUCTION** GAIN RESOLVED, ADD WEIGHT LOSS OR POSSIBILITY OF **MAIN ADVERSE EVENTS GASTROINTESTINAL** HYPOGLYCAEMIA TYPE 1 DIABETES (URGENT - PHONE **SECONDARY CARE IMMEDIATELY) IN CKD STAGE 3A** MAXIMUM 2 g DAILY CAREFUL MONITORING

2nd LINE	IF NOT REACHING TARGET AFTER 3–6 MONTHS ² , REVIEW ADHERENCE: THEN GUIDED BY PATIENT PROFILE						
In ADDITION to lifestyle measures	ADD ONE OF:						
	SULPHONYLUREA* OR	SGLT2 INHIBITOR* OR	DPP-4 INHIBITOR* OR	PIOGLITAZONE*			
EFFICACY	HIGH	MODERATE	LOW/MODERATE	MODERATE			
CV BENEFIT	NO	YES (SPECIFIC AGENTS) 3	NO	PROBABLE (BUT FLUID RETENTION)			
HYPOGLYCAEMIA RISK	HIGH	LOW	LOW	LOW			
WEIGHT	GAIN	LOSS	NEUTRAL	GAIN			
MAIN ADVERSE EVENTS	HYPOGLYCAEMIA	GENITAL MYCOTIC	FEW	OEDEMA/FRACTURES ⁶			
IN CKD STAGE 3A	CAREFUL MONITORING ¹	DO NOT INITIATE 4	REDUCE DOSE 5	DOSE UNCHANGED			
3rd LINE	IF NOT REACHING TARGET AFTER 3–6 MONTHS, REVIEW ADHERENCE: THEN GUIDED BY PATIENT PROFILE ⁷						

3rd LINE	ADD EITHER AN ADDITIONAL ORAL AGENT FROM A DIFFERENT CLASS					
In ADDITION to lifestyle measures						
	SULPHONYLUREA* OR	SGLT2 INHIBITOR* OR	DPP-4 INHIBITOR* OR		PIOGLITAZONE*	
	If BMI >30 kg/m²			NJECTABLE AGENT If BMI < 30 kg/m²		
	GLP-1 AGONIST*		BASAL INSULIN*			
EFFICACY	HIGH			HIGH	inject before bed	
CV BENEFIT	YES (SPECIFIC AGENTS) ³	stop DPP-4 inhibitor		NO		
HYPOGLYCAEMIA RISK	LOW	consider reducing sulphonylurea	ı	HIGHEST	 use NPH (isophane) insulin - or longer-acting analogues according to risk of hypoglycaemia¹⁰ 	
WEIGHT	LOSS	continue metformin		GAIN	can continue metformin, pioglitazone, DPP-4 inhibitor or	
MAIN ADVERSE EVENTS	GASTROINTESTINAL	can continue pioglitazone		HYPOGLYCAEMIA	SGLT2 inhibitor	
IN CKD STAGE 3A	DOSE UNCHANGED 8	can continue SGLT2 inhibitor		DOSE UNCHANGED ⁹	can reduce or stop sulphonylurea	
4th LINE	IF NOT REACHING TARGET AFTER 3-6 MONTHS, REVIEW ADHERENCE: THEN GUIDED BY PATIENT PROFILE ADD ADDITIONAL AGENT(S) FROM 3rd LINE OPTIONS (NEED SPECIALIST INPUT)					

IF INSULIN INTENSIFICATION REQUIRED (NEED SPECIALIST INPUT)

ADD PRANDIAL INSULIN OR SWITCH TO TWICE-DAILY MIXED BIPHASIC INSULIN

Algorithm summarises evidence from the guideline in the context of the clinical experience of the Guideline Development Group. It does not apply in severe renal or hepatic insufficiency.

Prescribers should refer to the British National Formulary (www.medicinescomplete.com), the Scottish Medicines Consortium (www.scottishmedicines.org.uk) and Medicines and Healthcare products Regulatory Agency (MHRA) warnings for updated guidance on licensed indications, full contraindications and monitoring requirements.

*Continue medication at each stage if EITHER individualised target achieved OR HbA1c falls more than 0.5% (5.5 mmol/mol) in 3-6 months. Discontinue if evidence that ineffective.

NOTES: 1. Consider dose reduction, **2.** Do not delay if first line options not tolerated / inappropriate, **3.** See guideline pages 23 & 26-27, **4.** See BNF: specific agents can be continued at reduced dose, **5.** See BNF: no dose reduction required for linagliptin **6.** Pioglitazone is contraindicated in people with (or with a history of) heart failure or bladder cancer, **7.** Do not combine dapagliflozin with pioglitazone, **8.** Caution with exenatide when eGFR<50 ml/min/1.73 m², **9.** Adjust according to response, **10.** Driving, occupational hazards, risk of falls, previous history.

In ADDITION to lifestyle measures