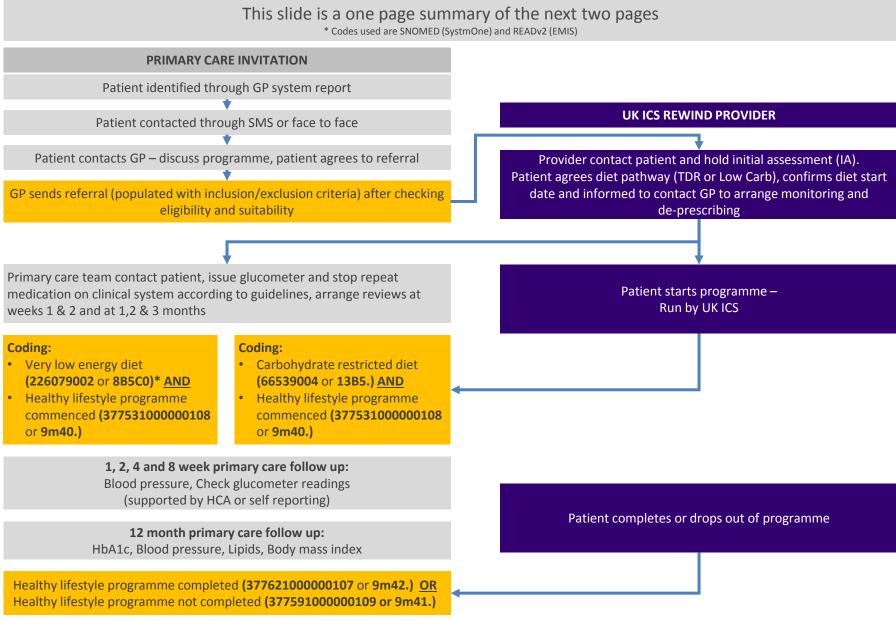
NWL REWIND Type 2 Diabetes Pathways

(REWIND: REducing Weight with INtensive Dietary support)

Inclusion, Exclusion Criteria, Coding, Medication Protocols



NWL REWIND Type 2 Diabetes Simplified Pathway





NWL REWIND Type 2 Diabetes Detailed Referral Pathway

PRIMARY CARE INVITATION

Registered with NWL GP

Inclusion criteria:

- · Age 18 or over;
- Diabetes duration < 12 years (in phase 1);
- On DPP-4, SGLT-2 or GLP-1

Exclusions for Both Pathways:

- HbA1c > 85mmol/mol (unless within 6 months of diagnosis);
- Current insulin use (at least in phase 1);
- Pregnant or planning to become pregnant during next 6 months. Defer those breastfeeding until lactation ceases;
- Severe renal impairment (eGFR <30);
- Health professional assessment that the person is unlikely to understand or meet the demands of the treatment programme and/or monitoring requirements (e.g. active psychotic illness or severe depression requiring psychiatric review);
- Unwilling to provide blood samples;
- Unwilling to allow sharing of clinical information to allow tracking of progress and payment against outcomes

Send REWIND **Invitation SMS** or offer at diabetes appointment

Patient contacts GP

GP/HCP sends referral (populated with inclusion/exclusion criteria) after checking eligibility and suitability

Coding for referral: Referral to healthy lifestyle programme (89228100000101 or 8Hlu.)

UK ICS REWIND PROVIDER

Patient attends provider initial assessment and agrees to start programme

Patient encouraged to follow Total Diet Replacement (TDR) pathway, but if unwilling or meets exclusion criteria, then offered Low Carb pathway

Specific Exclusions for TDR:

- BMI of under 27kg/m² (adjusted to 25kg/m² in people of South Asian and Chinese origin);
- Significant physical co-morbidities:
 - active cancer other than skin cancer treated with curative intent by local treatment only, or people taking hormonal or other long term secondary prevention;
 - heart attack or stroke in last 6 months;
 - severe heart failure;
 - active liver disease (not including NAFLD);
- Active substance use disorder/eating disorder;
- Porphyria;
- Known untreated proliferative retinopathy;
- Current treatment with anti-obesity drugs (would need to stop);
- Recent weight loss > 5% body weight / on current weight management programme / had or awaiting bariatric surgery (unless willing to come off waiting list)

Specific Exclusions for Low Carb Diet (<130g/day):

 Concurrent SGLT2 inhibitor usage (SGLT-2 inhibitors will need to be stopped in view of potential risk of ketoacidosis whilst on intensive carb reduction programme);



NWL REWIND Type 2 Diabetes Detailed Management Pathway

PRIMARY CARE SUPPORT

Prescribing management and monitoring support as needed, costed at £58.67 per patient on DPP-4, SGLT-2 or GLP-1 medication who start the programme

UK ICS REWIND PROVIDER

Patient attends IA, agrees start date and informed to make de-prescribing appointment with GP

GP/HCP notified of start date

TOTAL DIET REPLACEMENT

Primary care team contact patient, issue glucometer and stop repeat diabetes (except Metformin) and BP medication on clinical system according to guidelines, arrange reviews at weeks 1 & 2 and at 1, 2 & 3 months

LOW CARB DIET

Primary care team contact patient, issue glucometer and stop repeat diabetes medication (except Metformin) on clinical system according to guidelines, arrange reviews at weeks 1 & 2 and at 1, 2 & 3 months

Coding:

- Very low energy diet
- 226079002 or 8B5C0) AND
- Healthy lifestyle programme commenced (377531000000108 or 9m40.)

Coding:

- Carbohydrate restricted diet (66539004 or 13B5.) AND
- Healthy lifestyle programme commenced (377531000000108 or 9m40.)

1, 2, 4 and 8 week primary care follow up: Blood pressure, Check glucometer readings (supported by HCA or self reporting)

3 and 6 month primary care follow up: HbA1c, Blood pressure, Body mass index

12 month primary care follow up:

HbA1c, Blood pressure, Lipids, Body mass index

Healthy lifestyle programme completed (377621000000107 / 9m42.) OR

Healthy lifestyle programme not completed (377591000000109 / 9m41.)

12 month intensive lifestyle programme

TOTAL DIET REPLACEMENT

LOW CARB DIET

Weeks 1-12

Primary care notified if patient drops out or does not lose weight in order to restart medication.

Patient is communicated to by UKICS as a reminder to notify GP/relevant HCP of this. UKICS will send GP practice quarterly reports with list of patients at different stages.

Weeks 13-24

Weeks 25-52



Total Diet Replacement: Primary Care Prescribing Protocol

BASELINE	ELIGIBILITY BASELINE METRICS GLUCOMETER	Check inclusion / exclusion criteria HbA1c, BP and BMI within 3 months Issue glucometer with 50 strips. Ensure that patient knows how to self-test and when to seek help
	DIABETES MEDICATIONS	STOP Sulphonylurea, Glitazone, Glinide, SGLT-2 inhibitor, DPP-4 inhibitor, Acarbose, GLP-1 CONTINUE Metformin (discuss merits with patient) IF BP > 140/80, CONTINUE Antihypertensive medication
DAY 1	ANTIHYPERTENSIVES	IF BP ≤ 140/80, STOP ONE Antihypertensive medication: Order for STOPPING medication: Alpha blocker (if prescribed for hypertension) Beta blocker (continue if used for heart failure/post MI) Amiloride / Spironolactone (continue spironolactone if used for heart failure) Thiazide or thiazide-like diuretic or Calcium channel blocker ACEI or ARB (if hypertension only), consider only REDUCING dose if heart failure, previous MI or raised ACR
	LIPID MEDICATIONS	CONTINUE Fibrate, Statin, Ezetimibe
WEEK 1 & 2	CHECK BP, Review glucometer readings	If systolic BP > 165mmHg on repeated measurement RESTART one drug (see below) If significant osmotic symptoms (thirst, polyuria) or random capillary glucose is > 15 mmol/L, check that weight loss is as anticipated. If it is not, discuss whether any other help needed with diet. If weight loss is satisfactory but blood glucose is still high, consider introducing an oral hypoglycaemic agent. Start at the lowest dose and increase gradually. If blood glucose remains high, titrate or add further agents
MONTHS 1 & 2	CHECK BP, Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
MONTH 3	CHECK BP, weight, HbA1c; Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
монтн 6	CHECK BP, weight, HbA1c; Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
MONTH 12	CHECK BP, weight, HbA1c; Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
If HbA1c above target or random capillary glucose consistently		ANTIHYPERTENSIVE MEDICATION TITRATION If Systolic BP > 165mmHg in weeks 1-2 or > 130-140mmHg thereafter, restart antihypertensive in line with NICE and NWL guidelines on Hounslow CCG Website.



Low Carb Diet: Primary Care Prescribing Protocol

BASELINE	ELIGIBILITY BASELINE METRICS GLUCOMETER	Check inclusion / exclusion criteria HbA1c, BP and BMI within 3 months Issue low cost glucometer with 50 strips as acute. Ensure that patient knows how to self-test and when to seek help
DAY 1	DIABETES MEDICATIONS	STOP Glitazone, SGLT-2 inhibitor (risk of ketoacidosis with SGLT-2) STOP Sulphonylurea or Glinide if HbA1c < 70 CONTINUE Metformin (discuss merits with patient) CONTINUE DPP-4 inhibitor or GLP-1 UNTIL TARGET HbA1c REACHED. Stop when achieved. (consider changing t GLP1 to semaglutide - cost effectiveness)
	ANTIHYPERTENSIVES	IF BP > 120/80, CONTINUE Antihypertensive medication IF BP ≤ 120/80, STOP ONE Antihypertensive medication: Order for STOPPING medication: Alpha blocker (if prescribed for hypertension) Beta blocker (continue if used for heart failure/post MI) Amiloride / Spironolactone (continue spironolactone if used for heart failure) Thiazide or thiazide-like diuretic or Calcium channel blocker ACEI or ARB (if hypertension only), consider only REDUCING dose if heart failure, previous MI or raised ACR
	LIPID MEDICATIONS	CONTINUE Fibrate, Statin, Ezetimibe
WEEK 1 & 2	CHECK BP, Review glucometer readings	If systolic BP > 165mmHg on repeated measurement RESTART one drug (see below) If significant osmotic symptoms (thirst, polyuria) or random capillary glucose is > 15 mmol/L, check that weight loss is as anticipated. If it is not, discuss whether any other help needed with diet. If weight loss is satisfactory but blood glucose is still high, consider introducing an oral hypoglycaemic agent. Start at the lowest dose and increase gradually. If blood glucose remains high, add further agents
MONTHS 1 & 2	CHECK BP, Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
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MONTH 12	CHECK BP, weight, HbA1c; Review glucometer readings	TITRATE antihypertensive medication to achieve target BP of ≤ 130-140/80
If HbA1c above target or random capillary glucose consistently If Sys		ANTIHYPERTENSIVE MEDICATION TITRATION If Systolic BP > 165mmHg in weeks 1-2 or > 130-140mmHg thereafter, restart antihypertensive in line with NICE and



MONITORING OF BLOOD GLUCOSE LEVELS-

TOTAL DIET REPLACEMENT

Test home blood sugar with glucometer twice per week before breakfast (self reporting)

Patient should be aware to look for symptoms of hypo (feeling faint, dizzy, sweaty, hungry) or hyperglycaemia (e.g. thirst, increased urination) and check glucometer if those symptoms are experienced

WEEKS 1-2

WEEKS 3-52

If fasting / before meal self measured blood glucose > 15 mmol/L over 5 consecutive days

If:

- Random self measured blood glucose > 15 mmol/L
- HbA1c off target

Patient contacts GP practice

LOW CARB DIET

Test home blood sugar with glucometer twice per week:

- once before breakfast
- · once two hours after a meal
- if remaining on gliclazide (starting HbA1c ≥ 70), test
 DAILY and BEFORE DRIVING. If BM < 5, stop gliclazide

Patient should be aware to look for symptoms of hypo (feeling faint, dizzy, sweaty, hungry) or hyperglycaemia (e.g. thirst, increased urination) and check glucometer

If fasting / before meal self measured blood glucose > 15 mmol/L over 5 consecutive days

If:

- Random self measured blood glucose > 15 mmol/L
- HbA1c off target

Patient contacts GP practice

Primary care:

- 1. Check that weight loss is as anticipated.
- 2. If it is not, discuss whether any other support is needed
- 3. If weight loss is satisfactory but glucose or HbA1c off target, consider introducing an oral hypoglycaemic agent in line with
- 4. Start at the lowest dose and increase gradually
- 5. Subsequently, if HbA1c off target, add further agents
- 6. Urge further weight loss at each visit

NOT ACHIEVING TARGET WEIGHT LOSS OR HbA1c

Onwards referral:

If patient drops out, does not achieve weight loss target (10-15kg) or has significant (e.g. mental health) complexity which is interfering with weight loss, consider onwards referral to:

- Tier 3 weight management services e.g. consideration of bariatric surgery
- Conventional structured education

