

West Herts Diabetes Renal Pathway

All patients with DM screened at primary care annually
U+Es , eGFR, microalbuminuria – see table 1

Exclude UTI

- Exclude Overt Protein
Autoimmune screen ANA ANCA - if positive → **Renal**
- Exclude Myeloma (Protein Electrophoresis)
Bence Jones proteins in urine - if positive → **Haematology**

- Tighten Diabetes Control Preferably with ACE inhibitors or ARBs
- BP 130/80 mmHg (140/90 if prone to falls, orthostatic hypotension)
- Lipid Management (follow NICE guidelines)

Check U+E's 2 weeks after starting ACE or ARB (Expected decline in eGFR and rise in K up to 5.9)

If > than that, query renal artery stenosis → **Renal**

- US KUB
- if obstructed → **Urology**
-if renal asymmetry? Renal Artery Stenosis → **Renal/Diabetes for Renal Angiogram**
- If Haematuria and UTI excluded and autoimmune screen negative → **Urology**

Monitor eGFR as guidelines (see table 1)

Plot eGFR on ICE

if falling with increased steepness ie >5 ml/min (advise fasting sample and good hydration before test)

- US KUB
- Autoimmune screen, if positive → **Renal**
- Myeloma Screen, if positive → **Renal + Haematology**

Monitoring renal function and screening for complications

If eGFR < 45ml/min when patient not acutely unwell

1. Screen for Anaemia (FBC) 6/12

Exclude other causes

B12, Folate, Ferritin and Iron Studies

If TSAT <30% and Ferritin <500, will need iron replacement. Trial Oral if no improvement

Renal for IV +/- EPO



2. Check Bone Profile Vit D and PTH

If Phosphate High → **Renal (dietician and phosphate binders)**

If Vit D deficient, treat with Vit D alone and no calcium supplements, doses per Vit D guidelines

If PTH raised but normal phosphate + Vit D, check 6/12

If rapid Rise > 3x upper limit of normal → **Renal for 1-Alfa**

Does Patient have significant retinopathy? If not, non-diabetic nephropathy to be considered.

Diabetes Renal Pathway When & Where to refer

REFERAL EXCLUSIONS:

- NH Residents
- Age >75
- Active cancer treatment (*if treatment includes steroids might still need DSN to help diabetes control)

Indications to refer to Diabetes Clinic

- Poor diabetes control (hypos or inappropriately high HbA1C) despite maximal oral management (list medication tried and results)
- Deterioration of diabetes control after metformin discontinuation in patients with eGFR below 30 ml/min
- Patients with DM treated medically on renal replacement therapy
- Patients with DM who had kidney/ pancreas transplant

Indications for referral to Renal Clinic

- Linear decline in renal function increasing steepness (eGFR graph on ICE)
- K > 5.9 mmol/L on 2 consecutive samples
- Phosphate > 2.0 mmol/L on 2 consecutive samples
- Anaemia of chronic disease Hb < 110, requiring IV iron and/or EPO
- Suspicion of RAS
- eGFR ≤ 30 mL/min consistently and falling

Diabetes and renal team will discuss investigations and F/U in MDT

Diabetes team will review dialysis patients with diabetes a month after starting on dialysis

Pts may be discharged from the clinic with instruction for further follow up in primary care