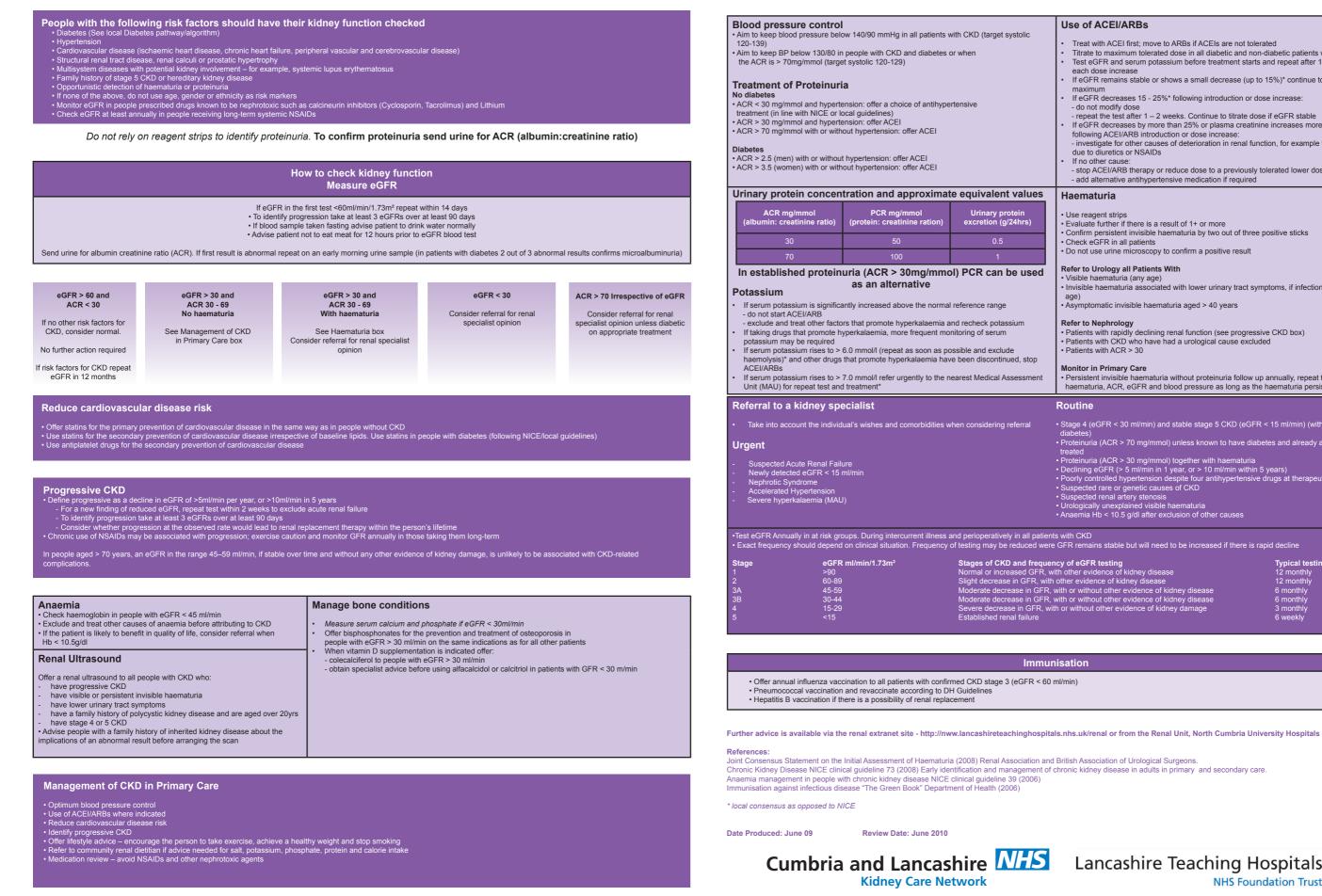
# **Chronic Kidney Disease (CKD) Algorithm**



# Use of ACEI/ARBs

- Treat with ACEI first; move to ARBs if ACEIs are not tolerated
- Titrate to maximum tolerated dose in all diabetic and non-diabetic patients with proteinuria Test eGFR and serum potassium before treatment starts and repeat after 1-2 weeks and each dose increase
- If eGFR remains stable or shows a small decrease (up to 15%)\* continue to titrate dose to
- If eGFR decreases 15 25%\* following introduction or dose increase:
- do not modify dose repeat the test after 1 2 weeks. Continue to titrate dose if eGFR stable If eGFR decreases by more than 25% or plasma creatinine increases more than 30%
- following ACEI/ARB introduction or dose increase:
- investigate for other causes of deterioration in renal function, for example volume depletion due to diuretics or NSAIDs
- If no other cause - stop ACEI/ARB therapy or reduce dose to a previously tolerated lower dose
- add alternative antihypertensive medication if required

## Haematuria

- Use reagent strips
- Evaluate further if there is a result of 1+ or more
- Confirm persistent invisible haematuria by two out of three positive sticks Check eGFR in all patients
- · Do not use urine microscopy to confirm a positive result

# Refer to Urology all Patients With

Visible haematuria (any age)
 Invisible haematuria associated with lower urinary tract symptoms, if infection excluded (any

• Asymptomatic invisible haematuria aged > 40 years

#### Refer to Nephrology

 Patients with rapidly declining renal function (see progressive CKD box) · Patients with CKD who have had a urological cause excluded Patients with ACR > 30

# Monitor in Primary Care

• Persistent invisible haematuria without proteinuria follow up annually, repeat testing for haematuria, ACR, eGFR and blood pressure as long as the haematuria persists

### Routine

age)

- Stage 4 (eGFR < 30 ml/min) and stable stage 5 CKD (eGFR < 15 ml/min) (with or without
  - uria (ACR > 70 mg/mmol) unless known to have diabetes and already appropriately
- Proteinuria (ACR > 30 mg/mmol) together with haematuria
   Declining eGFR (> 5 ml/min in 1 year, or > 10 ml/min within 5 years)
- Declining controlled hypertension despite four antihypertension suspected rare or genetic causes of CKD
  Suspected renal artery stenosis
  Urologically unexplained visible haematuria
  Anaemia Hb < 10.5 g/dl after exclusion of other causes</li> bite four antihypertensive drugs at therapeutic doses

Immunisation

- Typical testing frequency 12 monthly

