# Guidelines for GP referral and further investigations of patients with elevated haematocrit

#### Primary Polycythaemia is rare, so consider other causes first

NB: Elevated haemoglobin/haematocrit has a wide differential diagnosis including:

Secondary causes: Obstructive sleep apnea, hypoxic lung disease, erythropoietin-secreting tumors, drugs (diuretics, SGLT2 inhibitors, testosterone

and anabolic steroids), smoking, alcohol

Relative polycythaemia resulting from plasma depletion

Primary proliferative polycythaemia (polycythaemia vera)

Co-existing iron deficiency can sometimes mask the presence of primary polycythaemia

### Criteria for urgent referral for 2 WW clinic in Haematology

#### Extremely raised haematocrit (Male > 0.600, Female > 0.560) in the absence of congenital cyanotic heart disease

Persistently raised haematocrit

(Male > 0.520, Female > 0.480) in association with:

- Recent arterial or venous thrombosis (including DVT / PE, CVA / TIA, MI / unstable angina, PVD)
- Neurological symptoms
- Visual loss
- o Abnormal bleeding
- o Pruritis
- Splenomegaly
- o Elevated white cell and platelet counts

### **Criteria for routine referral for Haematology**

 Persistent unexplained elevated haematocrit (more than 8 weeks) (Male > 0.520, Female > 0.480)

### Appropriate investigation in primary care for patients not meeting criteria for urgent referral

- Confirm with repeat FBCs over time (uncuffed blood samples)
- Modify known associated lifestyle factors: smoking, alcohol, consider changing thiazides to non-diuretic antihypertensive agents
- Screen for diabetes

## **Discharge Policy**

- Following completion of investigation, only those cases requiring venesection or cytoreductive therapy will remain under outpatient follow-up
- All other cases will be discharged with a suggested frequency of FBC monitoring and a clearly-stated threshold haematocrit for re-referral