

PF-PIP-21

# Haematology - Clinical Guidelines: Neutropenia - GP Referral Guidelines

#### Introduction

Neutropenia is defined as a neutrophil count of less than 2 x  $10^9$ /l. Please note, that the normal range for Africans/Afrocaribbeans is  $1.0-7.0 \times 10^9$ /l. Risk of infective complications is closely related to the depth of the neutropenia: a major increase in infections is seen with counts of  $<0.5 \times 10^9$ /l while some increased risk of infection is seen with counts of  $0.5-1 \times 10^9$ /l.

Causes of neutropenia include viral infection, sepsis, drugs, autoimmune disorders and bone marrow failure due to aplasia, malignant infiltration or B12 / folate deficiency.

## The following should be referred urgently for outpatient assessment:

- Neutrophil count < 1 x 10<sup>9</sup>/l
- Neutropenia in association with:
  - Other cytopenia (Hb < 100g/l, Platelets < 50 x 109/l)
  - Lymphadenopathy
  - Splenomegaly

Patients with active sepsis in association with unexplained neutropenia  $< 1 \times 10^9$  should be discussed with the duty haematologist to arrange appropriate direct assessment.

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

- Blood film examination
- B12 and folate levels
- Autoimmune screen
- Consider discontinuation of potentially precipitating medications
- NB Normal neutrophil count often <2 x 10<sup>9</sup>/l in individuals of Afro-Caribbean or Middle Eastern origin
- Repeat FBC in 4-6 weeks viral neutropenias are frequently transient

#### Referral for specialist opinion should be considered for:

Persistent (at least on two occasions 4-6 weeks apart), unexplained neutropenia 1 – 1.5 x 10<sup>9</sup>/l