Validating and Developing Duffy Null Specific Absolute Neutrophil Count Reference Ranges for Adults
and Pediatrics

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A. OVERVIEW
Background and Significance
People of African or Middle Eastern genetic ancestry often have lower peripheral absolute neutrophil

iv. acute illness
v. temperature >38°C
vi. being seen for an urgent visit or undergoing emergency surgery
vii. history of rheumatologic disorders, malignancy, chronic infection, or autoimmune disease
viii. history of bone marrow transplant or any immunodeficiency
ix. undergoing work-up for infection, cancer, or autoimmune disease.
x. active pregnancy
Recruitment
Participants can be recruited from any participating site where they can reasonably be expected to be
healthy, including outpatient clinic, in the community, or in elective preoperative settings. Participants
should be screened by the study team for eligibility before they are approached, as outlined in the
exclusion and inclusion criteria.

Informed Consent
Individuals who meet the inclusion criteria may be approached by a member of the study team in-person, by telephone, or electronically. The individual will be asked if they are interested in participating
in the study and if interested, the study team at the participating site will review the informed consent
form in-person or virtually. The study team will address any questions or concerns the patient has prior
to obtaining verbal or written informed consent. A waiver of consent will be requested from local IRB
for sites who opt to use residual blood.