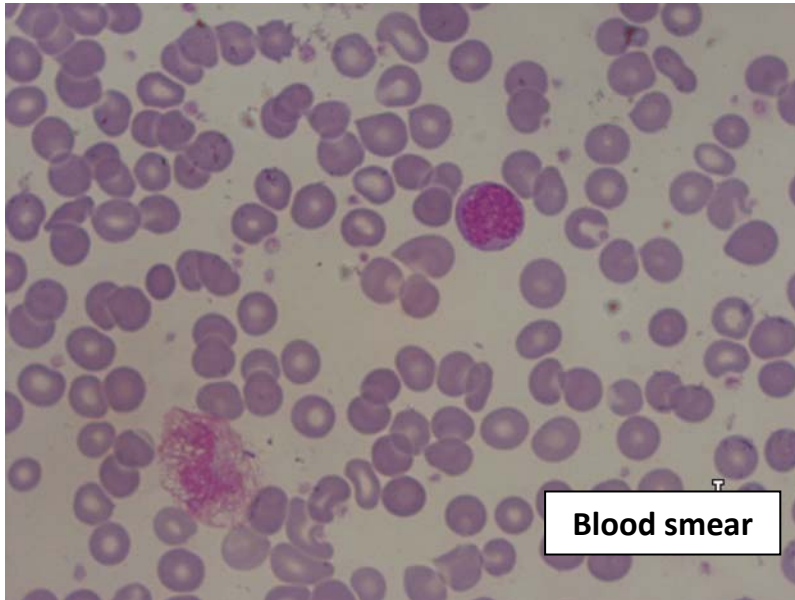
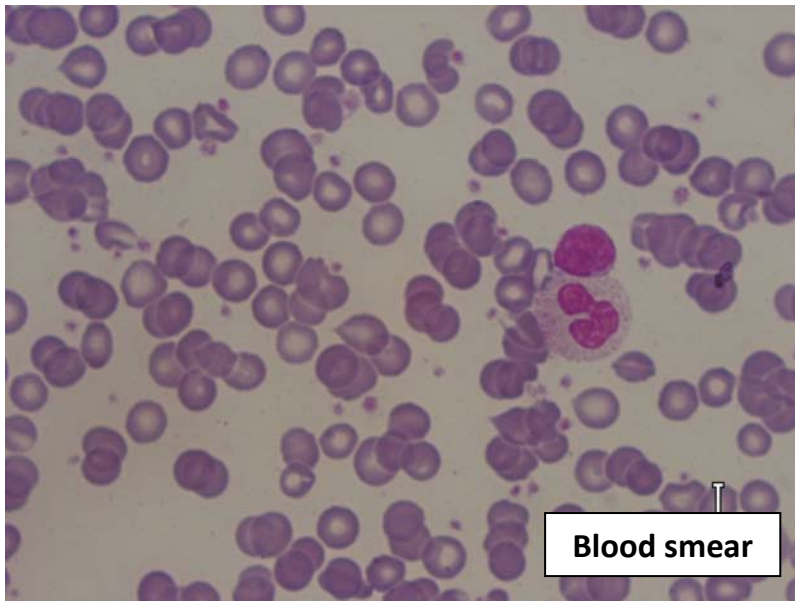




- (Ref No 249)
- Male of 9 month age, Razakhel Zondra
- Fever off and on
- Liver edge palpable , spleen 5 cms



Blood smear



Blood smear

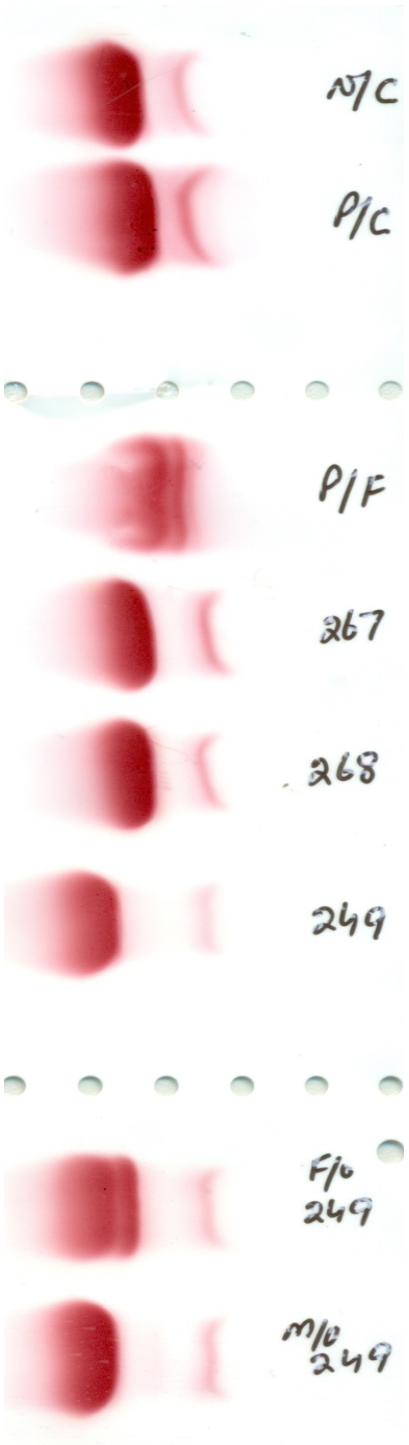


Retics

Blood counts in the patient and his parents

Parameter		Patient (249)	Father	Mother
RCC	$\times 10^{12}/L$	4.26	4.77	4.39
Hb	g/dl	10.0	14.3	13.0
MCV	fl	78.4	88.1	89.7
MCH	pg	23.5	30	29.6
MCHC	g/dl	29.9	34	33
RDW				
Retics	%	1.6		
N RBCs	/100 wbc	0		
TLC	$\times 10^9/L$	17.6	6.9	5.8
Platelets	$\times 10^9/L$	674	242	162

Hb Electrophoresis



Opinion

- Patient (249): HbJ Homozygous

About Hemoglobin J

- More than 50 hemoglobin J variants
- All have an electrophoretic mobility faster than HbA on cellulose acetate
- Classified as
 - variants of the alpha- or beta-chains
 - hemoglobins with more than one amino acid substitution in the alpha chain
- Manifestations are heterogeneous
- Hemoglobin J Capetown show increased oxygen affinity, polycythemia, and microcytosis
- Generally it presents as mild anemia in homozygous form and is a chance finding in heterozygous form