

East Laboratory

WBC IP Messages			
FLAG/IP MESSAGE GENERATED	SUGGESTED ACTIONS	REASON FOR FLAG GENERATION	
WBC Abnormal Scattergram	- Hold WBC/PLT/diff, result RBC parameters, and send to core lab for microscopic review	-Clustering of cells in WNR or WDF channel is abnormal -Increased numbers of abnormal cells	
NRBC Abnormal Scattergram	-Hold WBC/diff, result RBC/PLT parameters, and send to core lab for microscopic review	-Abnormal clustering between ghost/NRBC/WBC areas	
Critical Neut# <0.5/Neutropenia	 -First time <0.5 bil/L, smear must be scanned and sent for path review -Hold diff, result CBC parameters, and send to core lab for microscopic review -History of <0.5 bil/L, release results 	-Numeric Trigger	
Lymphopenia	-No action required	-Numeric Trigger	
Lymphocytosis	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
Monocytosis	- Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
Eosinophilia	- Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
Basophilia	- Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
Leukocytosis (WBC >20.0) CBCWD or CBCND	 Hold WBC/diff, result CBC parameters, and review smear 	-Numeric Trigger	
Critical WBC/Leukocytopenia	-Flag triggers when WBC < 2.0 bil/L -Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
NRBC Present	-No action required	-Numeric Trigger	
IG present	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Numeric Trigger	
IG Asterisk Error/Immature Grans?	 -Review history of differentials -Previous immature granulocytes reported and <10% immature granulocytes counted by analyzer = Result -No previously resulted immature granulocytes or >10% immature granulocytes: review smear	-Unreliable analyzer results	
Blasts/Abn Lympho?	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Abnormal clustering in the region for blasts and abnormal lymphocytes in the scattergram	
Left Shift?	-No action required	-Band neutrophils possible	

Atypical Lympho?/Abn Lympho?	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Significant clustering in the region for atypical lymphocytes -Will only flag when relative lymphocyte is > 35%
WNR and WDF Difference	 -Ensure sample is rerun -If flag persists: -Hold WBC/diff, result CBC parameters, and send to core lab for microscopic review 	-Ratio of the Total Nucleated Count in the WDF channel versus Total Nucleated Count in the WNR channel is too high or too low
Confirm Eos/Neut	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Unreliable analyzer results

RBC/Retic IP Messages			
FLAG/IP MESSAGE GENERATED	SUGGESTED ACTIONS	REASON FOR FLAG GENERATION	
Retic Abnormal Scattergram	-Hold diff/retic, result CBC parameters, and send to core lab for additional testing	-From retic channel -Excessive number of particles in the UPP area (RBC inclusions may be present: H-J bodies, pappenheimers, basophilic stippling, malaria)	
RBC Abnormal Distribution	-ALWAYS check for a clot (add Caresphere internal comment) -Hold diff, result CBC parameters, and send to core lab for microscopic review	-Abnormal RBC histogram pattern -Abnormal morphology may be present: anisocytosis, multiple RBC populations, fragmented RBCs. Poikilocytosis, rouleaux, or RBC agglutination	
Dimorphic Population	-Hold diff, result CBC parameters, and send to core lab for microscopic review	-Multiple peaks on histogram -Usually after transfusion -Abnormal morphology may be present: anisocytosis, multiple RBC populations, fragmented RBCs. Poikilocytosis, rouleaux, or RBC agglutination	
Reticulocytosis	-No action required	-Numeric Trigger	
Anisocytosis	-No action required	-Numeric Trigger	
Microcytosis CBCWD or CBCND	 -Review smear first time only when MCV <60 Hold diff, result CBC parameters, and send to core lab for microscopic review -Repeat instances of MCV <60 can be released without review 	-Numeric Trigger	
Macrocytosis CBCWD or CBCND	 -Review smear first time only when MCV >114 Hold diff, result CBC parameters, and send to core lab for microscopic review -Repeat instances of MCV >114 can be released without review 	-Numeric Trigger	
Hypochromia	-No action required	-Numeric Trigger	
Anemia	-No action required	-Numeric Trigger	
Critical Hgb/Hct	 -Low critical hgb/hct = ALWAYS check for clot (add Caresphere internal comment) -High critical hgb/hct: no action required 	-Numeric Trigger	
Erythrocytosis	-No action required	-Numeric Trigger	
RBC Agglutination?	-ALWAYS check for a clot (add Caresphere internal comment) -Result nothing and send to core lab for additional testing	-Calculation and size comparison of RBC parameters	
MCHC >38	 -ALWAYS check for a clot (add Caresphere internal comment) - Result nothing and send to core lab for additional testing 	-MCHC >38 g/dL -Possible cold agglutinin, hemolysis, icteria, lipemia, lyse resistant erythrocytes, or spherocytes	

Turbidity/Hgb Interference?	-ALWAYS check for a clot (add Caresphere	-MCHC >38 g/dL
	internal comment)	-Possible cold agglutinin, hemolysis,
	- Result nothing and send to core lab for	icteria, lipemia, lyse resistant
	additional testing	erythrocytes, or spherocytes
Iron Deficiency?	-ALWAYS check for a clot (add Caresphere	-Calculation and size comparison of
	internal comment)	certain RBC items (MCV. RDW-CV)
Hgb Defect?	-ALWAYS check for a clot (add Caresphere	- Calculation and size comparison of
	internal comment)	certain RBC items (MCV. RDW-CV)
Fragments?	-ALWAYS check for a clot (add Caresphere	-RBC size comparisons
	internal comment)	
	-Hold PLT/diff, result WBC/RBC parameters,	
	and send to core lab for microscopic review	
	-HH and RETIC orders: no action required	
MCHC <30	-Review smear first time only	-Anemia could be causing
	-Hold diff, result CBC parameters, and	hypochromia
	send to core lab for microscopic review	-Potentially some RBC morphology to
	-Repeat instances can be released without	report
	review	
	-CBCND order: no action required	
High RDW	-Review smear first time only	-Potentially some RBC morphology to
	-Hold diff, result CBC parameters, and	report
	send to core lab for microscopic review	-Numeric Trigger
	-Repeat instances can be released without	
	review	
Suspect Sample	-ALWAYS check for a clot (add Caresphere	-Based on an algorithm using RBC
	internal comment) and rerun the sample	results and particle counts from the
	-If flag persists, review smear	WNR scattergram
	-Hold diff, result CBC parameters, and	
	send to core lab for microscopic review	
RBC and Retic Difference	-Ensure sample is rerun	-Ratio of the RBC result from the RET
	-If flag persists, review smear	channel and RBC result from the
	-Hold diff, result CBC parameters, and	impedance channel is too high or too
	send to core lab for microscopic review	low

PLT IP Messages		
FLAG/IP MESSAGE GENERATED	SUGGESTED ACTIONS	REASON FOR FLAG GENERATION
PLT Abnormal Distribution	-No action required	-Interfering particles in the platelet histogram causing abnormal curve
PLT Abnormal Scattergram	-ALWAYS check for a clot (add Caresphere internal comment) -Hold PLT/diff, result WBC/RBC parameters, and send to core lab for microscopic review	-WBC fragments are overlapping in the platelet area -Possible larger platelets
IPF Asterisk Error	-ALWAYS check for a clot (add Caresphere internal comment) -Hold PLT/diff, result WBC/RBC parameters, and send to core lab for microscopic review	-WBC fragments are overlapping in the platelet area -Possible larger platelets
Critical Platelet/ Thrombocytosis	-Hold PLT/diff, result WBC/RBC parameters, and send to core lab for microscopic review	-Numeric Trigger
Critical Platelet/ Thrombocytopenia	 -ALWAYS check for a clot (add Caresphere internal comment) -If first time <75, review smear - Hold PLT/diff, result WBC/RBC parameters, and send to core lab for microscopic review -If <75 and previously reviewed, result only after checking for a clot! 	-Numeric Trigger
PLT Clumps?	 -If flag on first run <u>only</u>: -ALWAYS check for clot (add Caresphere internal comment) -If flag on second run: -ALWAYS check for clot (add Caresphere internal comment) -Hold PLT/diff, result WBC/RBC parameters, and send to core lab for microscopic review -Only review smear when flag persists on the second run 	-Abnormal clustering in the WNR, WDF, or PLT-F scattergrams
PLT and PLTF Difference	-Ensure sample is rerun -If flag persists, review smear -Hold PLT/diff, result CBC parameters, and send to core lab for microscopic review	-Ratio of the PLT-F result to PLT result from the impedance channel is too high