Additional file 1. Indications for and added clinical value of clinician-initiated peripheral blood smear reviews among three institutions

	Total (n=515)		Emory University Hospital (n=99)		Highland Hospital (n=216)		University of Minnesota Medical Center (n=200)	
Indication	Smears for this indication (%)*	Smears with added clinical value (%)**	Smears for this indication (%)*	Smears with added clinical value (%)**	Smears for this indication (%)*	Smears with added clinical value (%)**	Smears for this indication (%)*	Smears with added clinical value (%)**
Any	515 (100%)	118 (23%)	99 (100%)	23 (23%)	216 (100%)	57 (26%)	200 (100%)	38 (19%)
Any RBC abnormality	259 (50%)	48 (19%)	43 (43%)	6 (14%)	109 (50%)	23 (21%)	107 (54%)	19 (18%)
Any WBC abnormality	126 (24%)	32 (25%)	24 (24%)	4 (17%)	63 (29%)	17 (27%)	39 (20%)	11 (28%)
Any PLT abnormality	150 (29%)	20 (13%)	47 (47%)	5 (11%)	54 (25%)	9 (17%)	49 (25%)	6 (12%)
Any cytosis	53 (10%)	18 (34%)	6 (6%)	2 (33%)	32 (15%)	12 (38%)	15 (8%)	4 (27%)
Erythrocytosis	2 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (0.5%)	0 (0%)	1 (0.5%)	0 (0%)
Leukocytosis	42 (8%)	18 (43%)	3 (3%)	2 (67%)	29 (13%)	12 (41%)	10 (5%)	4 (40%)
Thrombocytosis	12 (2%)	1 (8%)	4 (4%)	1 (25%)	4 (2%)	0 (0%)	4 (2%)	0 (0%)
Any cytopenia	267 (52%)	45 (17%)	69 (70%)	7 (10%)	89 (41%)	19 (21%)	109 (55%)	19 (17%)
Anemia	179 (35%)	32 (18%)	40 (40%)	3 (8%)	64 (30%)	15 (23%)	75 (38%)	14 (19%)
Leukopenia	79 (15%)	11 (14%)	19 (19%)	0 (0%)	32 (15%)	5 (16%)	28 (14%)	6 (21%)
Thrombocytopenia	135 (26%)	18 (13%)	44 (44%)	4 (9%)	48 (22%)	8 (17%)	43 (22%)	6 (14%)
Any abnormal cell morphology	39 (8%)	9 (23%)	1 (1%)†	1 (100%)	26 (12%)	6 (23%)	12 (6%)	2 (17%)
RBC morphology	22 (4%)	4 (18%)	0 (0%)	0 (0%)	17 (8%)	3 (18%)	5 (3%)	1 (20%)
WBC morphology	6 (1%)	3 (50%)	0 (0%)	0 (0%)	4 (2%)	2 (50%)	2 (1%)	1 (50%)
PLT morphology	5 (1%)	1 (20%)	0 (0%)	0 (0%)	3 (1%)	1 (33%)	2 (1%)	0 (0%)
Hematolymphoid neoplasm	65 (13%)	30 (46%)	20 (20%)	10 (50%)	23 (11%)	12 (52%)	22 (11%)	8 (36%)
Blasts	5 (1%)	2 (40%)	0 (0%)	0 (0%)	5 (2%)	2 (40%)	0 (0%)	0 (0%)
Hemolysis	100 (19%)	24 (24%)	5 (5%)	5 (100%)	53 (25%)	12 (23%)	42 (21%)	7 (17%)
Parasites	4 (1%)	1 (25%)	0 (0%)	0 (0%)	2 (1%)	1 (50%)	2 (1%)	0 (0%)
Other	55 (11%)	15 (27%)	4 (4%)	0 (0%)	23 (11%)	11 (48%)	28 (14%)	4 (14%)
Not specified	33 (6%)	6 (18%)	0 (0%)	0 (0%)	28 (13%)	6 (21%)	5 (3%)	0 (0%)

^{*}Percentages represent the proportion of peripheral smear reviews performed for a given indication, among all smear reviews at the specified institution(s). Many smear reviews were initiated for more than one indication. As a result, the sum of the percentages in these columns is greater than 100%.

RBC, red blood cell; WBC, white blood cell; PLT, platelet

^{**}Percentages represent the proportion of smear reviews with added clinical value, among all smear reviews performed for this indication at the specified institution(s).

[†]This smear was requested to evaluate cell morphology; however, no specific lineage was specified.