



2010

Morphology Description and Diagnosis Codes

Version 1 - issued January 2010

IMPORTANT INFORMATION FOR 2010

1. Please discard all previous versions of the Morphology description and diagnosis codes. OLD CODE LISTS ARE NO LONGER VALID. The code list has been revised by the Morphology referees for 2010 with additions, deletions and rewording. 2010 changes have been highlighted by an asterisk (*) next to the code number and “A” for amended codes and “New” for additional codes. **Using previous versions of the code list may lead to incorrect scoring.**
2. COEXISTING CONDITIONS are no longer required. Participants should only submit what they consider the most significant diagnosis. Additional descriptive codes will cover previous coexisting diagnoses.
3. The codes are designed to cover all necessary descriptive and diagnostic terms. There may be some variation from the terminology used by your laboratory but we ask that you find the most appropriate answer within the codes supplied.
4. “Other” codes for description and diagnosis are no longer an option. If you consider another code should be added to the list please submit your comments on the “Participant Feedback and Concerns” form for review by the Morphology referees.
5. Participants may submit up to 4 descriptive codes for each of white cells, red cells and platelets. In the event of multiple abnormalities only the 4 most significant abnormalities should be entered. If more are entered only the first 4 will be recorded.

Do not hesitate to contact the staff at the Haematology QAP if you have any queries.

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RED BLOOD CELL DESCRIPTIONS

CODE	DESCRIPTION	CODE	DESCRIPTION
100	No morphological red blood cell abnormality	111	Malarial parasites
101	Acanthocytes	112	Microcytes
102	Agglutination	113	Microspherocytes
148	Artefactual change	115	Nucleated red blood cells
145	Background staining	151	Nucleated red blood cells - megaloblastic
121	Basophilic stippling	117	Pappenheimer bodies
103	Bite cells	118	Pencil cells
129	Blister cells	119	Poikilocytosis (not otherwise coded)
104	Burr cells	120	Polychromasia increased
146	Cryoglobulins	153*	Prickle cells ^{New}
137	Dimorphic red blood cells	122	Rouleaux
106	Elliptocytes / ovalocytes	123	Sickle cells
107*	Fragmented red blood cells / schistocytes ^A	124	Spherocytes
108	Howell Jolly bodies	125	Spur cells
109	Hypochromia	126	Stomatocytes
154*	Hyposplenic / asplenic changes ^{New}	152	Stomato-ovalocytes
147	Inaccurate red blood cell parameters	127	Target cells
149	Macrocytes oval	128	Tear drop poikilocytes
110	Macrocytes round		

WHITE BLOOD CELL DESCRIPTIONS

CODE	DESCRIPTION	CODE	DESCRIPTION
200	No morphological white blood cell abnormality	259	Mast cells
255	Abnormal lymphocytes	235	Metamyelocytes / myelocytes
204	Auer rods	258	Monocytopenia
244*	Bacteria or fungi intracellular / extracellular ^A	220	Monocytosis
205	Band form neutrophils / left shift	222	Neutropenia
206	Basophilia	223	Neutrophilia
207	Blast cells	216	Neutrophils – hypersegmented
210	Cytoplasmic vacuolation	217	Neutrophils – hypogranular / agranular
211	Döhle bodies	260*	Neutrophils - hypolobulated ^{New}
236	Dysplastic changes	240	Neutrophils – other abnormal granulation
212	Eosinophilia	232	Neutrophils – toxic changes
201	Eosinophils – abnormal granulation	248	Non-haemopoietic cells
245	Haemophagocytosis	246	Other inclusions
214	Hairy cells	224	Pelger-Huet cells
256	Inaccurate white blood cell count	225	Plasma cells
238	Lymphocytes - cytoplasmic inclusions	226	Polymphocytes
218	Lymphocytosis	228	Promyelocytes
253	Lymphoma cells	261*	Pseudo Pelger cells ^{New}
219	Lymphopenia	229	Reactive / atypical lymphocytes
257	Lymphoplasmacytoid cells	231	Smear / smudge cells
247	Malarial pigment in leucocytes		

PLATELET DESCRIPTIONS

CODE	DESCRIPTION	CODE	DESCRIPTION
300*	No significant morphological platelet abnormality ^A	304	Megakaryocyte cytoplasmic fragments
302*	Abnormally large / giant platelets ^A	315	Megakaryocytes
319	Abnormally small platelets	313	Micromegakaryocytes
303	Hypogranular platelets	320	Naked megakaryocyte nuclei
309	Inaccurate platelet count	301	Platelet clumps
		306	Satellitism

DIAGNOSIS

CODE	DIAGNOSIS	CODE	DIAGNOSIS
500	Abetalipoproteinaemia	720	Hereditary spherocytosis
553	Autoimmune haemolytic anaemia - warm	721	Hereditary stomatocytosis
582	Burns	724	HUS / TTP
599	Cachexia	681	Iron deficiency
554	Cold agglutinin disease	765	Liver disease
616	Congenital dyserythropoietic anaemia	794	Mechanical / valve haemolysis
619	Congenital non-spherocytic haemolytic anaemia	570	Megaloblastic anaemia
620	Congenital sideroblastic anaemia	796	Microangiopathic haemolytic anaemia
640	Disseminated intravascular coagulation	742	Mixed deficiency
667	Erythroblastosis fetalis	840	Oxidative haemolytic anaemia
691	G6PD deficiency	851	Paroxysmal nocturnal haemoglobinuria
704	Haemolytic disease of the newborn	869	Pure red cell aplasia
670	Heavy metal poisoning	866	Pyrimidine 5'-nucleotidase deficiency
713*	HELLP syndrome ^{New}	854	Pyruvate kinase deficiency
715	Hereditary acanthocytosis	887	Renal disease
716	Hereditary elliptocytosis / ovalocytosis	900	South-East Asian ovalocytosis
719	Hereditary pyropoikilocytosis	909	Spur cell anaemia

CODE	DIAGNOSIS	CODE	DIAGNOSIS
926	Haemoglobinopathy / thalassaemia	711	Hb SC
928	Haemoglobin variant – other	732	Hb S / beta thalassaemia
708	Hb Barts / hydrops fetalis	731	Hb SS (sickle cell anaemia)
709	Hb CC	925*	Thalassaemia intermedia ^{New}
710	Hb EE	927	Thalassaemia major
700	Hb H disease	924	Thalassaemia trait

CODE	DIAGNOSIS	CODE	DIAGNOSIS
524	Alder-Reilly anomaly	618	Other congenital neutrophil abnormality
601	Chediak-Higashi anomaly	852	Pelger-Huet anomaly
788	May-Hegglin anomaly		

CODE	DIAGNOSIS	CODE	DIAGNOSIS
548	Adult T cell leukaemia / lymphoma	786	Mantle cell lymphoma
870	B cell prolymphocytic leukaemia (PLL)	820	Natural killer (NK) / T cell leukaemia
606	Chronic lymphocytic leukaemia (CLL)	855	Plasma cell leukaemia
608*	CLL - Large cell transformation ^A	798	Plasma cell myeloma
684	Follicular lymphoma	902	Sezary syndrome
706	Hairy cell leukaemia	908	Splenic marginal zone lymphoma
707	Hairy cell leukaemia variant	932	T Prolymphocytic leukaemia
644	Large cell lymphoma	960	Waldenstrom macroglobulinaemia / lymphoplasmacytic lymphoma
760	Large granular lymphocytic leukaemia		
769	Lymphoma		

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CODE	DIAGNOSIS	CODE	DIAGNOSIS
791*	Myelodysplastic syndrome ^{New}	881	Refractory anaemia with ringed sideroblasts
790	Myelodysplastic syndrome with acute leukaemic transformation.	883	Refractory cytopenia with multilineage dysplasia
880	Refractory anaemia with excess blasts	886*	Refractory cytopenia with unilineage dysplasia ^A

CODE	DIAGNOSIS	CODE	DIAGNOSIS
549	Atypical chronic myeloid leukaemia	792*	Myelodysplastic / myeloproliferative neoplasm, unclassifiable ^A
602	Chronic eosinophilic leukaemia / hypereosinophilic syndrome	801	Myelofibrosis – primary
611	Chronic myeloid leukaemia – accelerated phase	803*	Myeloproliferative neoplasm ^A
622	Chronic myeloid leukaemia – blast phase	604*	Myeloproliferative neoplasm, unclassifiable ^A
610	Chronic myeloid leukaemia – chronic phase	797*	Myeloproliferative neoplasm with acute leukaemic transformation ^A
612	Chronic myelomonocytic leukaemia	808*	Myeloproliferative neoplasm with secondary marrow fibrosis ^{New}
603	Chronic neutrophilic leukaemia	860	Polycythaemia vera
668	Essential thrombocythaemia	910	Systemic mastocytosis
750	Juvenile myelomonocytic leukaemia		
763	Leukaemoid reaction		
787	Mast cell leukaemia		

CODE	DIAGNOSIS	CODE	DIAGNOSIS
580	Bone marrow infiltration	781	Malignant histiocytosis
605	Circulating carcinoma cells		

CODE	DIAGNOSIS	CODE	DIAGNOSIS
574	Acute basophilic leukaemia	510*	Acute myeloid leukaemia with myelodysplasia-related changes ^A
542	Acute erythroid leukaemia	537	Acute myelomonocytic leukaemia
520	Acute leukaemia	538	Acute myelomonocytic leukaemia with abnormal eosinophils
526	Acute lymphoblastic leukaemia / lymphoma	522	Acute panmyelosis with myelofibrosis
543	Acute megakaryoblastic leukaemia	535	Acute promyelocytic leukaemia
539	Acute monoblastic / monocytic leukaemia	536	Acute promyelocytic leukaemia variant
532	Acute myeloblastic leukaemia minimally differentiated	581	Burkitt lymphoma / leukaemia
534	Acute myeloblastic leukaemia with maturation	863*	Precursor lymphoblastic leukaemia / lymphoma ^A
533	Acute myeloblastic leukaemia without maturation	933	Transient abnormal myelopoiesis related to Down syndrome
531	Acute myeloid leukaemia		
511	Acute myeloid leukaemia therapy related		

CODE	DIAGNOSIS	CODE	DIAGNOSIS
583	Bernard-Soulier syndrome	727	ITP
623	Congenital macrothrombocytopenia	867	Platelet satellitism
693	Gray platelet syndrome	694	Wiscott-Aldrich syndrome

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CODE	DIAGNOSIS	CODE	DIAGNOSIS
692*	G-CSF therapy ^A	664*	Reactive eosinophilia ^A
755	Kawasaki syndrome	884	Reactive lymphocytosis

CODE	DIAGNOSIS	CODE	DIAGNOSIS
571	Bacterial contamination of sample	804	Microfilaria – Loa Loa
585	Bartonellosis	805	Microfilaria – Wuchereria bancrofti
586	Borrelia infection	741	Mononucleosis syndrome / infectious mononucleosis
609	Clostridial sepsis	856	Plasmodium falciparum
685	Fungal infection	857	Plasmodium malariae
761	Leishmaniasis	858	Plasmodium ovale
785	Malarial parasites	859	Plasmodium vivax
784	Malaria – mixed infection	934	Trypanosomiasis
806	Microfilaria / filariasis		
807	Microfilaria – Brugia malayi		

CODE	DIAGNOSIS	CODE	DIAGNOSIS
546	Aplastic anaemia	824	No abnormality detected
547	Artefact / aged specimen	872	Pregnancy changes

CODES DELETED 2010

CODE	DIAGNOSIS
239	Basophils abnormal granulation
607	CLL/PLL
793	MDS associated with isolated del(5q) abnormality
864	Precursor B lymphoblastic leukaemia / lymphoma (amalgamated into 863)
923	Double heterozygote thalassaemia

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