

Title Evaluation of a worldwide EQA scheme for complex clonality analysis of clinical lymphoproliferative cases demonstrates a learning effect.

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**Supplemental Table 2. Samples provided to participants per scheme year.**

EQA year	EQA type	Subscheme	Origin	Final Clinical Diagnosis	Final Molecular interpretation	% Correct Results (# labs)
2014	Paper	IG	Bone marrow	Hairy Cell Leukemia	Clonality detected	98.4 (61/62)
				Plasmablastic lymphoma	Clonality detected	100.0 (62/62)
			Peripheral blood	Reactive lymphocytosis	Polyclonality detected	96.8 (60/62)
				Mature B-cell neoplasm	Clonality detected	100.0 (62/62)
		Skin tissue fresh	Primary cutaneous follicle centre lymphoma	Clonality detected	95.2 (59/62)	
		TR	Bone marrow	Mycosis fungoides (with extra-cutaneous dissemination)	Clonality detected	96.7 (58/60)
				Peripheral blood	Sézary syndrome	Clonality detected
			Skin tissue fresh	Mycosis fungoides	Clonality detected	96.7 (58/60)
				Peripheral T-cell lymphoma, NOS	Polyclonality detected (no clonality detected)	96.7 (58/60)
				Mycosis fungoides	Clonality detected	100 (60/60)

**Supplemental Table 2 (Continued). Samples provided to participants per scheme year.**

EQA year	EQA type	Subscheme	Origin	Final Clinical Diagnosis	Final Molecular interpretation	% Correct Results (# labs)
2015	Paper	IG	Spleen tissue FFPE	Diffuse large B-cell lymphoma, NOS	Clonality detected	100.0 (57/57)
			Stomach tissue fresh	Chronic gastritis	Oligoclonality/multiple clones detected or Clonality detected	91.2 (52/57)
		TR*	Lymph node FFPE	Peripheral T-cell lymphoma, NOS	Clonality detected	100.0 (56/56)
			Peripheral blood	Reactive lymphocytosis	Oligoclonality/multiple clones detected or Clonality detected	94.6 (53/56)
	Wet	IG	Lymph node fresh	Reactive lesion	Polyclonality detected	94.7 (54/57)
				Mature B-cell neoplasm	Clonality detected	94.7 (54/57)
			Lymph node FFPE	Follicular lymphoma (with t(14;18) detected by FISH)	Clonality detected	91.2 (52/57)
		TR	Lymph node fresh	Reactive lesion	Polyclonality detected (no clonality detected)	87.5 (49/56)
			Peripheral blood	T-cell large granular lymphocytic leukemia	Clonality detected	100.0 (56/56)
2016	Paper	IG	Lachrymal node FFPE	Reactive lesion	Polyclonality detected	96.3 (52/54)
			Bone marrow	Chronic Lymphocytic Leukemia	Clonality detected	100.0 (54/54)
			Skin tissue fresh	Extranodal marginal zone B-cell lymphoma	Clonality detected	100.0 (54/54)
		TR	Peripheral blood	Relapsed T-cell prolymphocytic leukemia	Oligoclonality/multiple clones detected	29.4 (15/51)
			Skin tissue fresh	Mycosis fungoides	Clonality detected	98.1 (50/51)

**Supplemental Table 2 (Continued). Samples provided to participants per scheme year.**

EQA year	EQA type	Subscheme	Origin	Final Clinical Diagnosis	Final Molecular interpretation	% Correct Results (# labs)
2016	Wet	IG	Bone marrow	Multiple myeloma, relapse	Clonality detected	100.0 (54/54)
			Lymph node fresh	Follicular lymphoma (with t(14;18) detected by FISH)	Clonality detected	81.5 (44/54)
		TR	Lymph node FFPE	Reactive lesion	Polyclonality detected	92.2 (47/51)
			Peripheral blood	Relapsed T-cell acute lymphoblastic leukemia	Clonality detected	98.1 (50/51)
				Peripheral T-cell Non-Hodgkin Lymphoma, NOS	Clonality detected	100.0 (51/51)
2017	Paper	IG	Paravertebral mass FFPE	Diffuse large B-cell lymphoma, NOS	Clonality detected	100.0 (48/48)
			Bone marrow	Monoclonal B-cell lymphocytosis	Clonality detected	100.0 (48/48)
		TR	Bone marrow	Large granular lymphocyte leukemia	Clonality detected	100.0 (47/47)
			Skin tissue FFPE	Diagnosis not conclusive (early phase of parapsoriasis or mycosis fungoides could not be excluded) and further clinicopathological follow-up was advised	Polyclonality detected	100.0 (47/47)
			Skin tissue fresh	Mycosis fungoides	Clonality detected	80.9 (38/47)
	Wet	IG	Lymph node fresh	Follicular lymphoma (with t(14;18) detected by FISH)	Clonality detected	100.0 (48/48)
				Reactive lesion	Polyclonality detected	97.9 (47/48)
			Spleen tissue fresh	Nodal marginal zone lymphoma (with transformation to large B-cell lymphoma)	Clonality detected	100.0 (48/48)
		TR	Bone marrow	Reactive lesion	Clonality detected	100.0 (47/47)
			Lymph node fresh	Peripheral T-cell lymphoma, NOS	Clonality detected	97.9 (46/47)

**Supplemental Table 2 (Continued). Samples provided to participants per scheme year.**

EQA year	EQA type	Subscheme	Origin	Final Clinical Diagnosis	Final Molecular interpretation	% Correct Results (# labs)
2018	Paper	IG	Spleen tissue FFPE	Diffuse large B-cell lymphoma, NOS	Clonality detected	100.0 (55/55)
			Tumour tissue FFPE	Plasma cell neoplasm	Clonality detected	92.7 (51/55)
			Umbilicus fresh	Diffuse large B-cell lymphoma, NOS	Clonality detected	100.0 (55/55)
		TR	Lymph node FFPE	T-cell Prolymphocytic Leukemia	Clonality detected	96.4 (53/55)
			Pleural fluid	Peripheral T-cell lymphoma, NOS	Clonality detected	100.0 (55/55)
	Wet	IG	Lymph node fresh	Extraosseous plasmacytoma	Clonality detected	100.0 (55/55)
			Thyroid gland isthmus FFPE	Reactive lesion	Polyclonality detected	94.5 (52/55)
		TR	Lymph node fresh	Peripheral T-cell lymphoma, NOS	Clonality detected	100.0 (55/55)
				Angioimmunoblastic T-cell lymphoma	Clonality detected	100.0 (55/55)
			Skin tissue FFPE	Reactive lesion	Polyclonality detected	90.9 (50/55)

\*Data excludes one spleen tissue FFPE case (2015, paper TR case) with final clinical diagnosis of diffuse large B-cell lymphoma for which no consensus could be reached. Abbreviations: DLBCL, diffuse large B-cell lymphoma; EQA, external quality assessment; FFPE, formalin-fixed paraffin embedded; FISH, fluorescence in-situ hybridization; IG, immunoglobulin gene; N/A, not applicable; NOS, not otherwise specified; TR, T-cell receptor gene.