

# DIAGNOSTIC TECHNIQUES

METHOD	PROCESSING TIME	SENSITIVITY (%)	SAMPLE
Microscopy	Minutes (smears) Overnight (tissues)	5	Fixed tissue
Immunochemistry	6 - 24 hours	0.1 - 1	Fixed tissue
Flow Cytometry	3 - 8 hours	0.01 - 1	Fresh viable tissue or cells
Cytogenetics	2 - 10 days	1 - 5	Fresh viable cells
FISH	18 hours	1	Fresh/fixed tissue or cells
PCR	24 hours	0.001 - 1	Any sample

## ROLE OF MODERN DIAGNOSTIC TECHNIQUES IN HEMATO-LYMPHOID NEOPLASMS

DISEASE	MORPHOLOGY	IMMUNO-CHEMISTRY	FLOW CYTOMETRY	CYTOGENETICS /FISH	PCR
Acute Leukemia	++	++	+++	++++	++
MDS	++	+/-	++	+++	+/-
Myeloproliferative Disorders	++	+/-	+/-	+++	-
Lymphoproliferative Disorders	+	++	+++	+/-	+
Myeloma	+++	++	++	+	+/-
Non-Hodgkin's Lymphoma	++	+++	+++	+	++
Hodgkin's Disease	+++	+++	-	-	-
Minimal Residual Disease	+	++	+++	++	+++