



**DEPARTMENT OF PATHOLOGY  
THE UNIVERSITY OF HONG KONG  
UNIVERSITY PATHOLOGY LABORATORY**

08/11

Tests	Specimen/requirement	Brief principle of tests	Others	Turnaround Time
<b>Molecular Targeted Therapy</b>				
BCR/ABL kinase mutation detection for chronic myelogenous leukaemia and related disorders	20 ml blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking	Direct nucleotide sequencing of cDNA derived from peripheral blood leukocytes	Prior arrangement with pathologist required; please send sample during office hours on weekdays (before 1:00PM on Friday)	1 month
KRAS mutation detection for colorectal cancer	Tumour paraffin block of Colorectal cancer tissue	Tumour will be microdissected. Exon 2 of KRAS will be PCR-amplified and sequenced to detect hotspot mutations in codon 12 and 13		7 working days
HER-2 amplification test for breast cancer	Tumour paraffin block of Breast cancer tissue; copy of relevant pathology report	FISH test using PathVysion HER-2-DNA probe Kit for simultaneous assessment of HER-2 gene copies and control probe		2 weeks from receipt of paraffin blocks
<b>Early Bladder Cancer Detection</b>	35 - 80 ml of freshly voided urine into special collection (Urocyte) container	Urine cells are sedimented and the FISH technique is applied to detect cancer cells with aneuploidy of chromosomes 3, 7, 17, and loss of the 9p21 locus	Intended for use in conjunction with and not in lieu of other diagnostic procedures for urothelial cancer	1 month



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<b>Genetic Testing</b>				
BRCA1/2 mutation screening for breast and/or ovarian cancers	9 ml blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking to UPL; (1) Request form, (2) Completed BRCA genetic testing referral form and (3) Signed informed consent	PCR followed by automated sequencing		4 – 6 weeks
Cardiovascular, development, endocrine, metabolic, neurological, & skin	adult: 5-mL blood in EDTA bottles; children: 3 mL blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking to UPL; signed informed consent	PCR followed by automated sequencing		Less than 1 month
MEN1/MEN2/FMTC	9 ml blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking to UPL; signed informed consent	PCR followed by automated sequencing		3 - 4 weeks



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<b>Assay of Cancer Associated Virus</b>				
HBV DNA viral load	Clotted blood kept at room temperature, to be delivered to UPL within 24 hr of collection; 2 ml serum, i.e. about 4 ml clotted blood.	Automated Real Time PCR		2 – 7 days
HBV mutant detection	8 ml blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking to UPL; call UPL before sending sample	PCR followed by automated sequencing		7 – 10 days
HPV & Cervical Lesion / Cancer	Direct cervical sampling or Cervical cytology residues within 1 week of collection (ThinPrep or SurePath)	Digene - HPV DNA hybridization followed by amplified chemiluminescent signals; Roche Cobas HPV test - PCR based test for detection of 14 HR HPV types and identification of HPV 16 and 18.		1 week
	Direct cervical sampling or Cervical cytology residues within 1 week of collection (ThinPrep or SurePath)	Roche Linear Array HPV Genotyping - PCR based identification of 37 HPV genotypes, Designed to detect presence of multiple infections.		
	Direct cervical sampling or Cervical cytology residues within 1 week of collection	PCR followed by automated sequencing		



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	(ThinPrep or SurePath)			
EGFR mutation test	Paraffin block of cancer tissue	Microdissection of specimens for DNA extraction, PCR and direct sequencing		7 working days
NPM1/FLT3-ITD mutation test				2 weeks
MSI				7 working days
<b>Pharmacogenetic tests</b>	adult: 5-mL blood in EDTA bottles; children: 3 mL blood in EDTA bottles, sent at room temperature within 24 hour of blood-taking to UPL; signed informed consent	PCR followed by automated sequencing		3 days – 1 month