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## **Lothian NHS Board**

## **COLORECTAL CANCER GENE PANEL TESTING PRO FORMA**

Patient o	Patient details (printed label preferred)					
Forename(s):		Sex:				
Surname	e:	Patient ID:				
DOB:		Pedigree no.				
CHI:		Referrer:				
Clinical Summary:						
Clinical information Tumour information						
(type of cancer, age of onset, family history)		MSI high	MSI high			
		MMR lo	MMR loss of staining (please detail):			
		☐ IHC unin	formative			
		BRAF va	BRAF variant detected			
		MLH1 promoter hypermethylation				
		Tumour	Tumour unavailable			
Testing requested (please see test directory for specific referral criteria)						
Sequence analysis of the colorectal gene cancer panel is undertaken for ALL patients (see genes below):						
	MPR1A, MBD4 <sup>‡</sup> , MLH1, MSH2, MSH3	-				
	3-13), PTEN, RNF43, SMAD4, STK11	, , , , ,	- , - ( , , -			
•	*biallelic truncating variants only					
	analysis includes 1-10; exons 11-15 cannot b		The state of the s			
pseudo; tumour	gene. These exons are analysed using long ratissue.	nge PCR when PMS2 testing is inc	licated i.e., isolated loss of PMS2 staining in			
Dosage a	nalysis is conducted according to cli	inical indication as outline	d below.			
Please	tick (or double click) to select					
Select	Clinical Indication	Additional test details	ncluding dosage analysis (MLPA)			
	Polyposis	APC, MUTYH (selected ex	ons), and GREM1 (upstream region)			
	Desmoid tumour *	* only APC and MUTYH v				
	CHRPEs **	** only APC variants repo	rted			
	Lynch Syndrome	MLH1, MSH2, MSH6 and EPCAM (selected exons)				
	(see overleaf for guidelines)					
		PMS2 only if indicated i.e., isolated loss of PMS2 staining in				
	Colone stal Conson	tumour tissue				
	Colorectal Cancer	None as standard				
	patient dx <45yrs	Lynch dosage (see above) will be undertaken for patients dx <45yrs				
	Peutz-Jeghers Syndrome	STK11				
	Juvenile Polyposis Syndrome	SMAD4 and BMPR1A				
	., .					
	Hereditary Diffuse Gastric	Patients will ONLY be analysed for <i>CDH1</i> gene (sequencing and dosage analysis)				
Δdditiono						
Breast	Additional <u>sequencing analysis</u> for the following gene panels can be included if clinically indicated:  Breast BRCA1 <sup>¤</sup> , BRCA2 <sup>¤</sup> , PALB2, PTEN, STK11, TP53, ATM <sup>#</sup> , CHEK2 <sup>#</sup> , RAD51C, RAD51D					
חובמפו	#Reporting truncating variants only and the ATM variant c.7271T>G p.(Val2424Gly). Please note CHEK2 analysis is					
restricted to exons 1 to 9 plus the common c.1100delC variant due to the presence of a pseudogene						
Ovarian						
V December 19 will be considered accounts by the About an Internation						

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<sup>&</sup>lt;sup>#</sup>Dosage analysis will be conducted separately by the Aberdeen laboratory



