UKAS MEDICAL 9059

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RAPID EGFR VARIANT ANALYSIS

Patient Details		Source Information		Sample Information	
Lab Number:	MP19- XXXX	Requester Ref:		Date Received:	02/01/2019
Surname:	Atient	Surgical No.:	18.12345.1	Primary Tumour Site:	Lung
Forename:	Pauline	Sample Type:	FFPE Block	Tumour Subtype:	Adenocarcinoma
D.O.B. (D/M/Y)	30/07/1947	Consultant:	Smith	Tissue Sample Site:	Liver
Gender:	Female	Hospital:	Hospital	% Tumour (Whole):	
				% Tumour (Selected):	21-50%

Results

Detected Variant(s):

DNA Change(s): Deletion in Exon 19 of between 9 & 24 nucleotides

Protein Change(s): Deletion in Exon 19 of between 3 & 8 amino acids

Comment:

There is evidence of an EGFR exon 19 deletion mutation in this sample. In non-small cell lung cancer patients, this has been associated with an increased likelihood of response to treatment with EGFR TKIs.

Approved by:
Signature:
Name: Dr F. Irst **Date:** 04/01/2019

Job Title:
Clinical Scientist ✓
Consultant Histopathologist
BMS (senior)

Checked by:
Signature:
Name: Dr S. Econd **Date:** 04/01/2019

Job Title:
BMS
Trainee Clinical Scientist / BMS
Molecular Biology, PhD ✓

This assay was performed on a Biocartis Idylla system using the "EGFR Mutation Test" kit. This assay is CE-IVD certified for use on samples with >10% tumour content, with an analytical sensitivity of approximately 5% variant frequency in FFPE samples. It can detect the following mutations; p.Gly719Ala (c.2156G>C), p.Gly719Cys (c.2155G>T or c.2154_2155delinsTT), p.Gly719Ser (c.2155G>A), Exon 19 deletions (37 common variants between 9 and 24bp), p.Thr790Met (c.2369C>T), p.Ser768Ile (c.2303G>T), Exon 20 insertions (5 common variants), p.Leu858Arg (c.2573T>G, c.2573_2574delinsGT, or c.2573_2574delinsGA), and p.Leu861Gln (c.2582T>A). All DNA and Protein changes are given with respect to EGFR reference sequence NM 005228.3.