

Procedure standard di analitica

Table I. Proposed format for reporting genomic alterations detected through a comprehensive genomic panel. The results are categorized into SNV/INDEL, CNV, gene fusions, and genomic signatures, following a structured approach. Each alteration is reported with relevant details, including the affected gene, variant effect, variant classification and ESCAT level. Genomic signatures such as MSI and HRD/GIS are included with their corresponding values, reference thresholds, and ESCAT classification where applicable.

SNV, INDEL variants									
Example	Gene	Effect	Exon	Transcript ID	Nucleotid Variant	Protein Variant	Variant class	VAF	ESCAT
1	EGFR	Missense	21	NM_005228.5	c.2573T > G	p.(Leu858Arg)	Oncogenic	73%	IA
2	EGFR	Insertion in frame	20	NM_005228.5	c.2303_2311dup	c.p.(Ser768_Asp770dup)	Oncogenic	22%	IA
3	BRCA1	Splice acceptor variant	N/A	NM_007294.4	c.5075-2A > C	p.?	Oncogenic	52%	IA
4	TERT	Promoter variant	N/A	NM_198253.3	c.-124C>T	N/A	Oncogenic	14%	IV

Copy Number Variations									
Example	Gene	Effect	Transcript ID	Region	Event	Variant class	Gone Copy Number	ESCAT	
1	MET	Amplification	NM_001127500.3	7q31.2	gain	Oncogenic	20	IIB	
2	PTEN	Deletion	NM_000314.8	10q23.31	loss	Oncogenic	0	IIIA	

Fusions									
Example	Gene	Effect	Transcript ID	Specific fusion	Phasity	Variant class	Read counts	ESCAT	
1	ALK	Fusion	EML4: NM_019063; ALK: NM_004304.3	EMLA:: ALK (EML4 exon 13: ALK exon 20)	in frame	Oncogenic	800/188.000	IA	
2	NRG1	Fusion	CD74: NM_004355.4; NRG1: NM_013956.5	CD74:: NRG1 (CD74 exon 6::NRG1 exon 6)	in frame	Oncogenic	1890/166.000	IIB	

Genomic Signature				
Biomarker (example)	Score	Results	Threshold	ESCAT
MSI	4	MSS	18	N/A
HRD/GIS	45/23	Positive/High	42/16	IA