

S2 Table. Feasibility of EGFR and ALK testing in tumour tissue. The percentage of patients in whom both EGFR and ALK alteration status was tested is shown. Also, the table shows number and percentages of patients in whom testing was not requested (due to unspecified reasons), and reasons for testing being unfeasible. The numbers correspond to the graphs in figure 2. In total, 95 out of 136 patients in the run-in phase were tested for both EGFR and ALK alterations (69.9%). This increased to 77.0% in the protocol phase (568/738). Numbers indicate n(%).

Any histology	Stage I-III		Stage IV	
	Run-in	Protocol	Run-in	Protocol
Total number of patients	60	414	76	328
EGFR and ALK testing status unknown	0	3 (0.7%)	0	1 (0.3%)
Patients tested for EGFR and ALK	33 (55.0%)	282 (68.6%)	62 (81.6%)	286 (87.5%)
Patients not tested for EGFR and ALK	27 (45.0%)	129 (31.4%)	14 (18.4%)	41 (12.5%)
EGFR and ALK testing not requested	23 (38.3%)	71 (17.3%)	10 (13.2%)	11 (3.4%)
EGFR and ALK testing not feasible	4 (6.7%)	58 (14.1%)	4 (5.3%)	30 (9.2%)
Insufficient tumour tissue	3 (5.0%)	36 (8.8%)	4 (5.3%)	20 (6.1%)
No tumour tissue obtained	1 (1.7%)	11 (2.7%)	0	6 (6.1%)
No tumour tissue available at LEMA centre	0	10 (2.4%)	0	1 (0.3%)
Patient died before molecular analysis	0	1 (0.2%)	0	3 (0.9%)

Non-squamous NSCLC	Stage I-III		Stage IV	
	Run-in	Protocol	Run-in	Protocol
Total number of patients	37	295	67	286
EGFR and ALK testing status unknown	0	2 (0.7%)	0	1 (0.3%)
Patients tested for EGFR and ALK	22 (59.5%)	216 (73.7%)	59 (88.1%)	260 (91.2%)
Patients not tested for EGFR and ALK	15 (40.5%)	77 (26.3%)	8 (11.9%)	25 (8.8%)
EGFR and ALK testing not requested	11 (29.7%)	41 (14.0%)	4 (6.0%)	1 (0.4%)
EGFR and ALK testing not feasible	4 (10.8%)	36 (12.3%)	4 (6.0%)	24 (8.4%)
Insufficient tumour tissue	3 (8.1%)	24 (8.2%)	4 (6.0%)	15 (5.3%)
No tumour tissue obtained	1 (2.7%)	8 (2.7%)	0	6 (2.1%)
No tumour tissue available at LEMA centre	0	4 (1.4%)	0	0
Patient died before molecular analysis	0	0	0	3 (1.1%)

Squamous NSCLC	Stage I-III		Stage IV	
	Run-in	Protocol	Run-in	Protocol
Total number of patients	23	119	9	42
EGFR and ALK testing status unknown	0	1 (0.8%)	0	0
Patients tested for EGFR and ALK	11 (47.8%)	66 (55.9%)	3 (33.3%)	26 (61.9%)
Patients not tested for EGFR and ALK	12 (52.2%)	52 (44.1%)	6 (66.7%)	16 (38.1%)
EGFR and ALK testing not requested	12 (52.2%)	30 (25.4%)	6 (66.7%)	10 (23.8%)
EGFR and ALK testing not feasible	0	22 (18.6%)	0	6 (14.3%)
Insufficient tumour tissue	0	12 (10.2%)	0	5 (11.9%)
No tumour tissue obtained	0	3 (2.5%)	0	0
No tumour tissue available at LEMA centre	0	6 (5.1%)	0	1 (2.4%)
Patient died before molecular analysis	0	1 (0.8%)	0	0