

Supplementary Data 1: Cluster comparison across cohorts and clinical variables.

Comparison of Clusters by Origin

Cluster	Origin endemic	epidemic	Row Total
C1	15	19	34
	6.375	27.625	
	11.669	2.693	
	44.118%	55.882%	26.562%
	62.500%	18.269%	
C2	6	29	35
	6.562	28.438	
	0.048	0.011	
	17.143%	82.857%	27.344%
	25.000%	27.885%	
C3	3	24	27
	5.062	21.938	
	0.840	0.194	
	11.111%	88.889%	21.094%
	12.500%	23.077%	
C4	0	32	32
	6.000	26.000	
	6.000	1.385	
	0.000%	100.000%	25.000%
	0.000%	30.769%	
Column Total	24	104	128
	18.750%	81.250%	

Pearson's Chi-squared test

Chi² = 22.84014 d.f. = 3 p = 4.360295e-05

Fisher's Exact Test for Count Data

Alternative hypothesis: two.sided
p = 1.998457e-05

Comparison of Cluster of Lesions by HIV status

Cluster_lesions	HIV		Row Total
	No	Yes	
C1	4	30	34
	2.194	31.806	
	1.488	0.103	
	11.765%	88.235%	36.559%
	66.667%	34.483%	
C3	2	25	27
	1.742	25.258	
	0.038	0.003	
	7.407%	92.593%	29.032%
	33.333%	28.736%	
C4	0	32	32
	2.065	29.935	
	2.065	0.142	
	0.000%	100.000%	34.409%
	0.000%	36.782%	
Column Total	6	87	93
	6.452%	93.548%	

Pearson's Chi-squared test

Chi² = 3.838029 d.f. = 2 p = 0.1467515

Fisher's Exact Test for Count Data

Alternative hypothesis: two.sided
p = 0.1292689

Comparison of Cluster of Lesions by ART

Cluster_lesions	ART		Row Total
	No	Yes	
C1	29	5	34
	25.957	8.043	
	0.357	1.151	
	85.294%	14.706%	36.559%
	40.845%	22.727%	
C3	17	10	27
	20.613	6.387	
	0.633	2.044	
	62.963%	37.037%	29.032%
	23.944%	45.455%	
C4	25	7	32
	24.430	7.570	
	0.013	0.043	
	78.125%	21.875%	34.409%
	35.211%	31.818%	
Column Total	71	22	93
	76.344%	23.656%	

Pearson's Chi-squared test

Chi² = 4.241148 d.f. = 2 p = 0.1199627

Fisher's Exact Test for Count Data

Alternative hypothesis: two.sided
p = 0.1204854

Comparison of Cluster of Lesions by Morphotype

Cluster_lesions	Morphotype					Total
	Fungating	Macular	Nodular	Patch	Plaque	
C1	1	3	11	1	3	19
	0.905	6.635	7.540	0.302	3.619	
	0.010	1.991	1.588	1.617	0.106	
	5.263%	15.789%	57.895%	5.263%	15.789%	30.1%
	33.333%	13.636%	44.000%	100.000%	25.000%	
C3	0	6	8	0	8	22
	1.048	7.683	8.730	0.349	4.190	
	1.048	0.368	0.061	0.349	3.463	
	0.000%	27.273%	36.364%	0.000%	36.364%	34.9%
	0.000%	27.273%	32.000%	0.000%	66.667%	
C4	2	13	6	0	1	22
	1.048	7.683	8.730	0.349	4.190	
	0.866	3.680	0.854	0.349	2.429	
	9.091%	59.091%	27.273%	0.000%	4.545%	34.9%
	66.667%	59.091%	24.000%	0.000%	8.333%	
Column Total	3	22	25	1	12	63
	4.762%	34.921%	39.683%	1.587%	19.048%	

Pearson's Chi-squared test

Chi² = 18.78075 d.f. = 8 p = 0.01607721

Fisher's Exact Test for Count Data

Alternative hypothesis: two.sided
p = 0.007681957