

Title

A prospective cohort study identifies two types of HIV+ Kaposi Sarcoma (KS) lesions: proliferative and inflammatory.

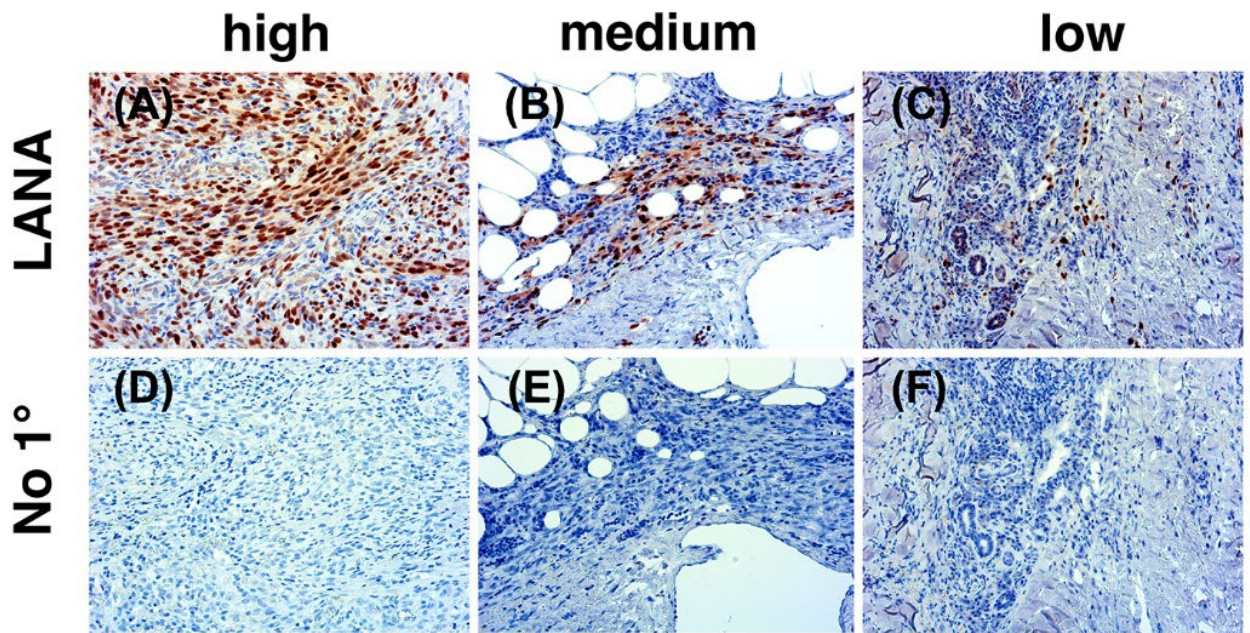
Razia Moorad, Edwards Kasonkanji, Joe Gumulira, Yolanda Gondwe, Morgan Dewey, Yue Pan, Alice Peng, Linda J. Pluta, Evaristar Kudowa, Richard Nyasosela, Tamiwe Tomoka, Hannock Tweya, Tom Heller, Salem Gugsu, Sam Phiri, Dominic T Moore, Blossom Damania, Matthew Painschab, Mina C. Hosseinipour, and Dirk P. Dittmer

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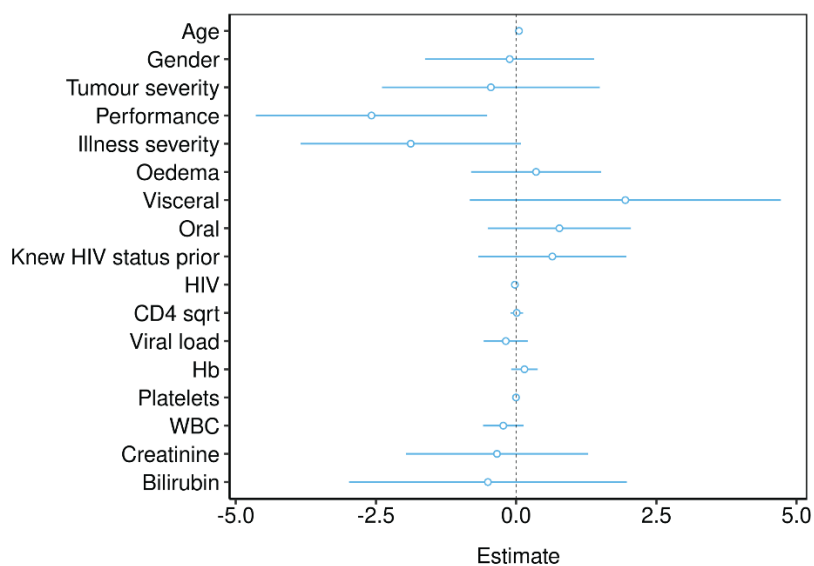
Supplementary table 1



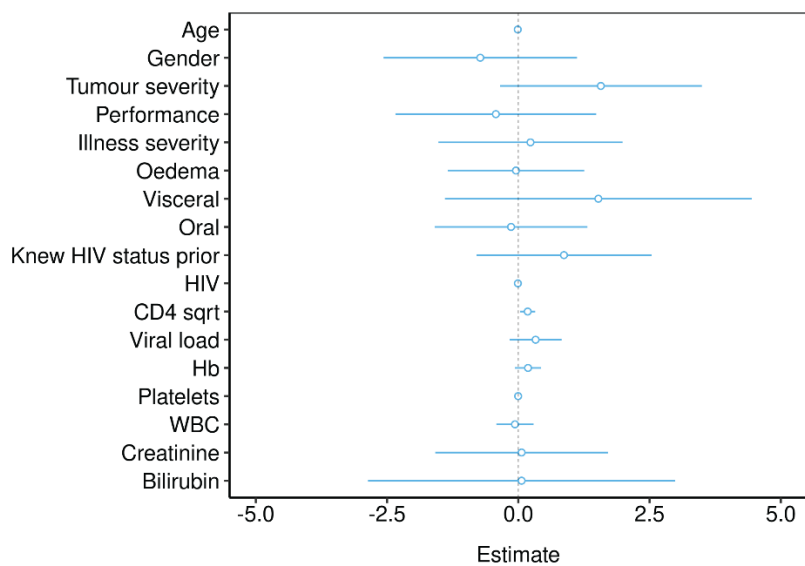
Supplementary Figure 1:

Visual gradings of LANA stains on FFPE KS skin biopsy sections. A biopsy staining negative for KSHV LANA was considered one of the study's exclusion criteria. Representative images of **(A)** high, **(B)** medium, and **(C)** low LANA counts. **(D-F)** Control sections for each sample. (x200 magnification). Repeat staining was conducted at UNC Chapel Hill.

(A)



(B)



Supplementary Figure 2:

Logistic regression analysis to determine the effect of clinical associations on response. **(A)**

Participants with a higher than 70% Karnofsky performance status were less likely to achieve CR at 48 weeks ($p \leq 0.014$). **(B)** Merging complete and partial responses revealed that a higher square root of the CD4 count is associated with achieving complete or partial response at 48 weeks.

Supplementary Table 1:

RNA sequencing. Sequencing coverage and quality statistics. ^a Sequencing reads were aligned to reference GRCh37. ^b Total RNA sequencing was performed using Ion AmpliSeq Transcriptome Human (cat# A31446, A29034) technology. Therefore virtually no reads mapped to the rRNA region (Ratio < $1:10^5$ for all)

^c Samples with a minimum count of 10 unique gene reads were retained for further analysis.

Sample ID	Total number of sequenced reads	Total number of uniquely mapped reads ^a	RNA integrity number (RIN)	Ratio of all reads aligned to rRNA regions to total uniquely mapped reads (rRNA rate) ^b * 10^{-6}	Ratio of exon-mapped reads to total uniquely mapped reads (Expression Profile Efficiency) ^b	Total number of detected transcripts with reads $\geq 10^c$
KSP002	2773382	2386045	8.3	2.1	0.95	16743
KSP008	2502038	2133359	7.6	4.2	0.95	16660
KSP009	1698935	1414124	8.9	0.71	0.96	15618
KSP012	2287555	1980774	8.5	0	0.94	15978
KSP013	2811851	2457531	7.1	2.6	0.93	17830
KSP014	2690121	2320915	8.4	3.0	0.94	17385
KSP031	1902350	1230902	NA	0	0.99	15241
KSP033	1473368	942416	NA	0	0.99	14669
KSP035	1674219	1102658	NA	0	0.99	14892
KSP037	7469070	4499699	NA	0	0.98	17656
KSP038	2737461	1714805	NA	0	0.99	16272
KSP044	658861	515923	NA	0	0.84	17720
KSP048	2453190	2113111	7.3	0.95	0.92	17651
KSP049	2602543	2238117	8.5	1.8	0.96	16876
KSP050	2963162	2479666	7.7	1.6	0.90	18293
KSP052	4302088	2617940	NA	0	0.97	16981
KSP053	4997180	4130361	8.1	1.9	0.97	17130
KSP054	3960210	2961796	NA	2.0	0.96	17179
KSP058	2719067	2343165	6.9	2.6	0.93	17407
KSP061	2214909	1888369	7.4	2.7	0.92	17514
KSP062	3106270	2654164	8.1	2.6	0.94	17750
KSP063	1986805	1637689	7.8	5.5	0.95	16180
KSP064	3896012	3455347	8.6	0.87	0.95	17582
KSP065	3402897	2769457	7.9	1.4	0.97	16578
KSP066	6313902	5313934	7.5	1.1	0.95	18702
KSP069	2403135	2109687	8.0	3.8	0.94	16874
KSP072	3053643	2610784	7.7	1.5	0.94	18177
KSP074	5240050	4552084	7.4	3.7	0.94	20178

KSP074	5340763	4654138	7.6	3.7	0.94	20178
KSP076	4526002	3889252	7.9	1.5	0.93	18173
KSP077	2362498	2006173	8.1	0.50	0.94	17150
KSP078	3232398	2690698	8.4	3.0	0.95	17454
KSP079	4009473	3389732	8.2	0.30	0.95	17108
KSP080	2619148	2247993	7.5	1.3	0.95	17291
KSP081	3240772	2801832	8.8	2.1	0.95	17786
KSP082	3129902	2656720	7.8	1.5	0.95	18706
KSP083	3189330	2716750	7.9	1.1	0.95	17236
KSP084	2511673	2229453	8.6	6.7	0.77	17724
KSP085	2921463	2471020	7.7	2.8	0.95	16690
KSP087	3996995	3524483	7.5	13	0.87	17187
KSP088	3268844	2767671	5.1	3.2	0.86	20800
KSP089	3554587	2883588	6.0	2.1	0.93	19233
KSP090	3597470	3145782	7.2	0	0.96	17789
KSP091	2463992	2126017	8.4	1.4	0.95	16370
KSP092	3056520	2650824	7.4	1.1	0.89	19248
KSP093	2590953	2243376	7.9	2.2	0.95	16653
KSP094	2782391	2430104	7.7	1.2	0.95	17593
KSP095	2679416	2310849	8.0	0.43	0.94	17394
KSP096	2859415	2500430	7.1	4.8	0.94	17868
KSP100	2537880	2226025	7.0	0.90	0.95	17223
KSP102	2438178	2047764	8.6	0.98	0.96	16295
KSP104	2737244	2279075	8.7	2.6	0.96	15648
KSP105	3088600	2653938	8.3	1.5	0.95	16886
KSP106	3034385	2624287	8.5	1.1	0.95	17052
KSP107	3647261	3147884	7.1	0.95	0.93	19217
KSP108	3204764	2741688	8.5	3.6E-06	0.96	16201
KSP112	3711898	3168553	7.3	3.2E-06	0.94	17576
KSP113	2841002	2411886	8.2	8.3E-07	0.94	17058
KSP114	3082095	2655299	8.1	2.3E-06	0.93	18323
KSP115	2821969	2394691	7.8	2.1E-06	0.93	17835

KSP116	3609992	3120769	8.0	2.0E-06	0.94	18704
KSP117	3236218	2651100	8.0	1.5E-06	0.94	17103
KSP118	3339528	2822258	7.9	1.1E-06	0.94	18360
KSP119	2652268	2318389	8.3	8.6E-07	0.95	18016
KSP119	2660343	2251158	7.8	8.9E-07	0.95	18016
KSP121	2984651	2559526	7.9	1.6E-06	0.95	16950
KSP124	3139954	2735055	7.8	1.1E-06	0.94	17777
KSP125	2715835	2356963	7.4	1.7E-06	0.96	16896
KSP127	10565248	6811131	7.8	0	0.99	18550
KSP128	2914731	2547687	7.0	1.2E-06	0.96	16815
KSP129	2619553	2263276	8.1	1.3E-06	0.96	16893
KSP141	2938185	2566500	7.5	0	0.95	17135
KSP142	3068452	2634300	7.0	3.0E-06	0.94	17968
KSP144	12484070	7343013	NA	0	0.98	18165
KSP145	8031152	4931399	6.4	2.0E-07	0.99	17301
KSP148	3789784	2644493	8.3	1.1E-06	0.98	15338
KSP150	5387841	4720589	8.7	1.9E-06	0.92	18280
KSP151	3804617	3186523	8.3	1.9E-06	0.96	17091
KSP152	4849635	4220555	8.2	7.1E-07	0.96	18510
KSP153	5100826	4491190	7.8	2.5E-06	0.96	18899

