

A DIRECT COMPARISON OF TWO DENSELY SAMPLED HIV EPIDEMICS: THE UK AND SWITZERLAND.

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Supplementary material

Supplementary Table 1: Proportion of sequences clustering at different cluster thresholds for the UK and Switzerland subtypes A1, B and C.

Subtype	Bootstrap	Genetic Distance	Proportion clustered (CH)	Proportion clustered (UK)	p.Bonferroni
A1	0.7	0.015	0.17	0.13	0.53
A1	0.8	0.015	0.16	0.12	0.55
A1	0.9	0.015	0.14	0.11	1
A1	0.95	0.015	0.12	0.1	1
A1	0.7	0.045	0.24	0.37	<0.0001
A1	0.8	0.045	0.22	0.33	<0.0001
A1	0.9	0.045	0.18	0.3	<0.0001
A1	0.95	0.045	0.17	0.27	<0.0001
B	0.7	0.015	0.22	0.26	<0.0001
B	0.8	0.015	0.19	0.24	<0.0001
B	0.9	0.015	0.15	0.19	<0.0001
B	0.95	0.015	0.12	0.16	<0.0001
B	0.7	0.045	0.29	0.6	<0.0001
B	0.8	0.045	0.26	0.53	<0.0001
B	0.9	0.045	0.2	0.46	<0.0001
B	0.95	0.045	0.16	0.36	<0.0001
C	0.7	0.015	0.14	0.14	1
C	0.8	0.015	0.13	0.13	1
C	0.9	0.015	0.12	0.11	1
C	0.95	0.015	0.11	0.09	1
C	0.7	0.045	0.2	0.42	<0.0001
C	0.8	0.045	0.19	0.37	<0.0001
C	0.9	0.045	0.16	0.29	<0.0001
C	0.95	0.045	0.15	0.22	<0.001

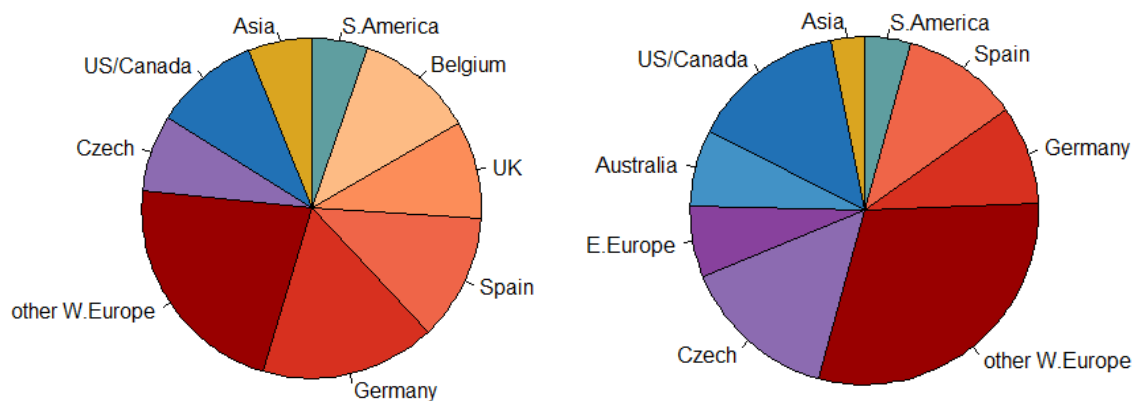
Note: p-values shown are from Fisher's exact test, Bonferroni- corrected for multiple comparisons

Supplementary Table 2: Results of the KS test for comparing degree distributions between the UK and Switzerland (Bonferroni-corrected)

Bootstrap	Genetic Distance	Risk group	p.Bonferroni
0.9	0.045	all	0
0.9	0.045	MSM	0
0.9	0.045	HET	<0.0001
0.9	0.045	PWID	1

Note: p values are shown only for bootstrap=0.9 but significance was consistent across bootstraps

Supplementary Figure 1: Origin of close linkages for Switzerland (left) and the UK (right)



Swiss subtype B sequences clustered closely (1.5% genetic distance, 70% bootstrap) with 162 non-Swiss sequences and UK sequences clustered with 353.

Genbank accession codes

UK

KU498303 - KU499301, EU236439 - EU236538, JN100661 - JN101948, KX661407 - KX663330, Q462040, Q462050, Q462058, Q462067, Q462088, Q462094, Q462095, Q462096, Q462098, Q462100, Q462107, Q462109, Q462129, Q462141, Q462144, Q462156, Q462157, Q462159, Q462164, Q462166, Q462172, Q462175, Q462183, Q462184, Q462216, Q462226, Q462231, Q462234, Q462260, Q462264, Q462267, Q462272, Q462300, Q462333, Q462335, Q462353, Q462403, Q462413, Q462416, Q462417, Q462446, Q462463, Q462464, Q462501, Q462526, Q462532, Q462027, Q462029, Q462030, Q462031, Q462032, Q462033, Q462034, Q462036, Q462042, Q462046, Q462047, Q462049, Q462054, Q462057, Q462059, Q462062, Q462064, Q462070, Q462071, Q462072, Q462074, Q462075, Q462077, Q462081, Q462082, Q462083, Q462085, Q462086, Q462087, Q462089, Q462090, Q462091, Q462093, Q462097, Q462101, Q462102, Q462103, Q462111, Q462112, Q462113, Q462116, Q462118, Q462120, Q462121, Q462123, Q462124, Q462126, Q462128, Q462134, Q462137, Q462139, Q462143, Q462147, Q462148, Q462149, Q462150, Q462152, Q462153, Q462154, Q462155, Q462158, Q462161, Q462163, Q462167, Q462171, Q462173, Q462176, Q462178, Q462179, Q462182, Q462185, Q462186, Q462187, Q462189, Q462195, Q462196, Q462197, Q462198, Q462199, Q462200, Q462208, Q462209, Q462212, Q462213, Q462219, Q462222, Q462227, Q462228, Q462229, Q462230, Q462235, Q462239, Q462240, Q462241, Q462242, Q462244, Q462245, Q462247, Q462248, Q462254, Q462262, Q462265, Q462266, Q462269, Q462273, Q462274, Q462278, Q462280, Q462282, Q462283, Q462285, Q462290, Q462291, Q462294, Q462295, Q462299, Q462301, Q462302, Q462305, Q462306, Q462308, Q462309, Q462311, Q462312, Q462314, Q462315, Q462316, Q462319, Q462320, Q462321, Q462322, Q462325, Q462326, Q462327, Q462328, Q462329, Q462330, Q462331, Q462332, Q462334, Q462337, Q462338, Q462341, Q462342, Q462343, Q462344, Q462346, Q462347, Q462348, Q462349, Q462350, Q462351, Q462352, Q462356, Q462357, Q462358, Q462359, Q462363, Q462364, Q462366, Q462369, Q462371, Q462372, Q462374, Q462375, Q462376, Q462377, Q462382, Q462383, Q462387, Q462392, Q462393, Q462394, Q462395, Q462396, Q462397, Q462398, Q462399, Q462400, Q462401, Q462404, Q462406, Q462407, Q462411, Q462412, Q462414, Q462415, Q462418, Q462419, Q462423, Q462424, Q462425, Q462426, Q462428, Q462441, Q462443, Q462444, Q462447, Q462448, Q462450, Q462454, Q462455, Q462457, Q462458, Q462460, Q462461, Q462466, Q462467, Q462468, Q462473, Q462474, Q462476, Q462477, Q462481, Q462482, Q462483, Q462484, Q462485, Q462486, Q462487, Q462488, Q462489, Q462491, Q462496, Q462497, Q462498, Q462500, Q462502, Q462503, Q462504, Q462505, Q462506, Q462507, Q462508, Q462509, Q462510, Q462511, Q462514, Q462515, Q462516, Q462518, Q462521, Q462522, Q462523, Q462524, Q462527, Q462529, Q462530, Q462531

Switzerland

GU344102-GU344671

KX691913 - KX692269

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