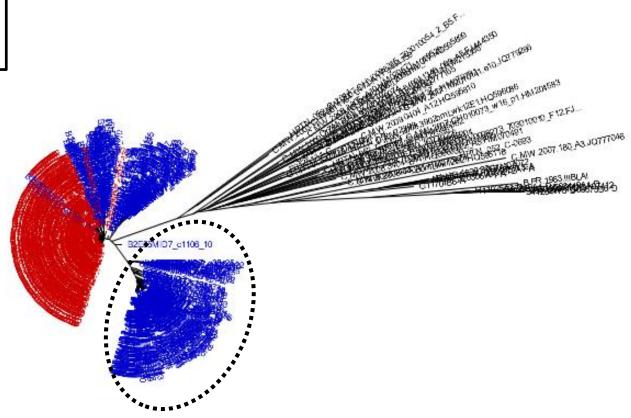
• **Supplemental Figure 1:** Phylogenetic trees of consensus *p24* and/or *qp41* viral sequences (≥10 reads) derived from 454 pyrosequencing of a subject's baseline (red) and follow-up sample (blue) with the superinfecting strain indicated (dashed circle) are shown for the 10 cases identified. Number of repeated sequences represented by each consensus sequence is shown at the end of the consensus identifier. Distance is indicated for the tree by the scale at bottom, and samples are grouped with a selection of subtype reference sequences and a collection of sequences from Malawi (black). Total genetic distance and a rate of genetic distance by year between the original and superinfecting strain are indicated. Full 454 sequence reads and consensus sequences are shown in a text box for each tree.

Transmitter Case #1-gp41

Genetic distance 2.4%; PY=2.0 (Rate=1.2 per year)

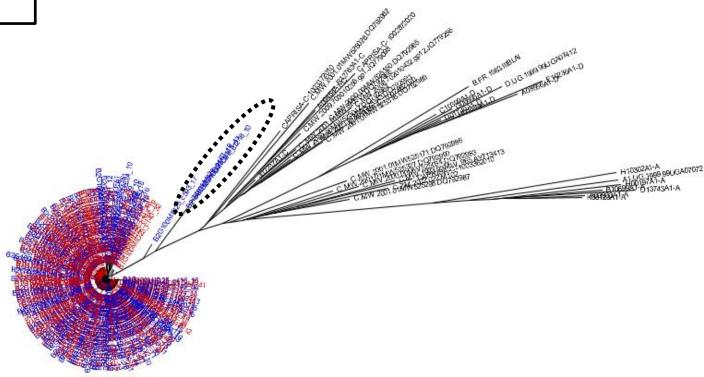
Reads/Consensus sequences Baseline=15050/216 Follow-up=13961/277



Transmitter Case #2-p24

Genetic distance 1.3%; PY=0.75 (Rate=1.7 per year)

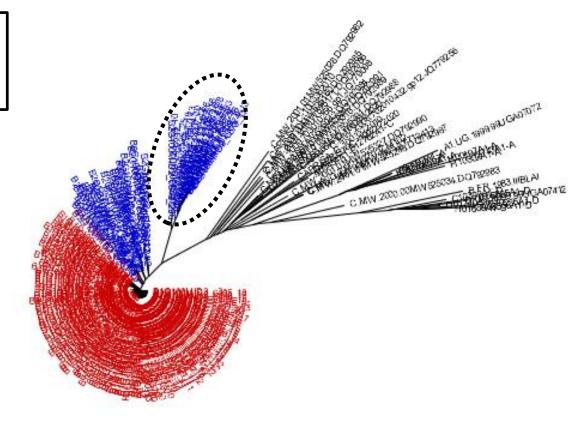
Reads/Consensus sequences Baseline=16015/111 Follow-up=11364/102



Transmitter Case #3-p24

Genetic distance 1.4%; PY=0.27 (Rate=5.2 per year)

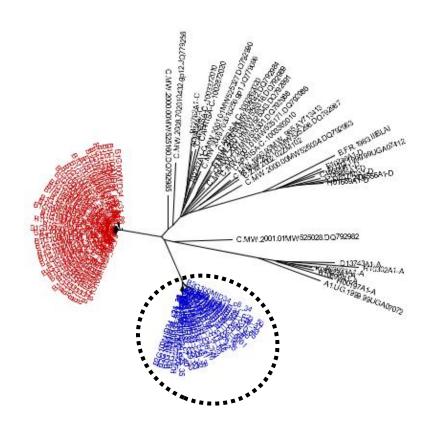
Reads/Consensus sequences Baseline=10686/148 Follow-up=13108/50



Transmitter Case #4-p24

Genetic distance 2.6%; PY=2.0 (Rate=1.3 per year)

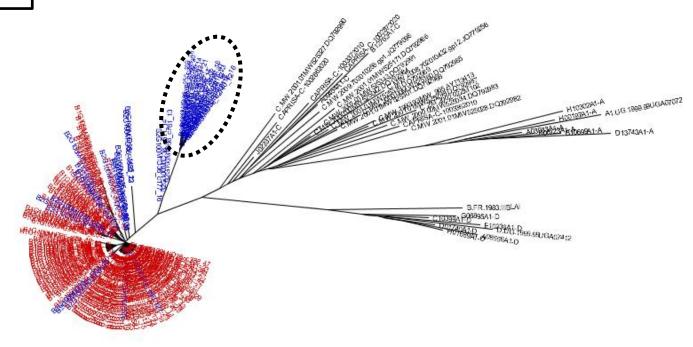
Reads/Consensus sequences Baseline=17901/51 Follow-up=12873/29



Transmitter Case #5-p24

Genetic distance 3.2%; PY=2.0 (Rate=1.6 per year)

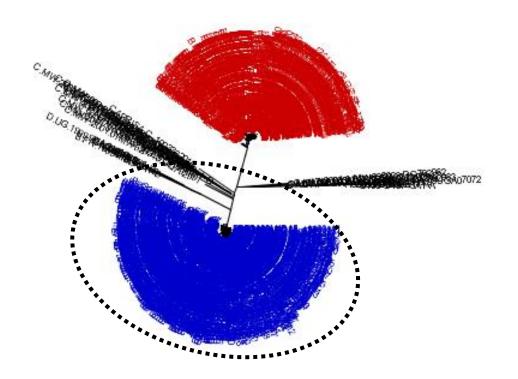
Reads/Consensus sequences Baseline=11821/118 Follow-up=9616/38



Non-transmitter Case #6-p24

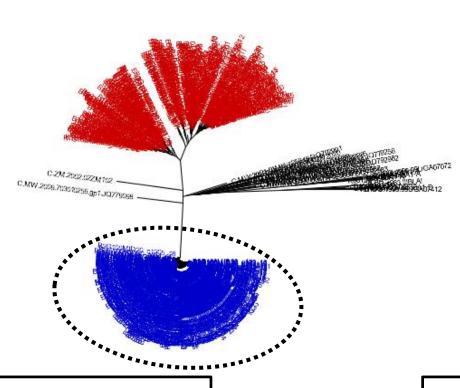
Genetic distance 3.8%; PY=0.6 (Rate=6.3 per year)

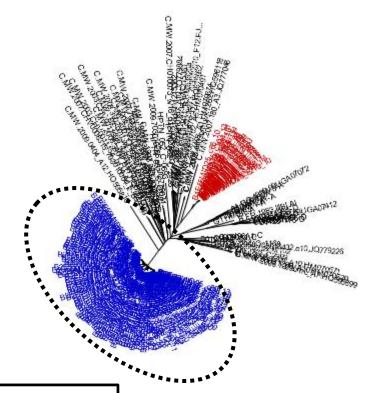
Reads/Consensus sequences Baseline=17479/368 Follow-up=26190/533



Non-transmitter Case #7-p24 & gp41

Gag genetic distance 6.5%; PY=~1.5 (Rate=4.3 per year) gp41 genetic distance 8.0%; PY=~1.5 (Rate=5.3 per year)

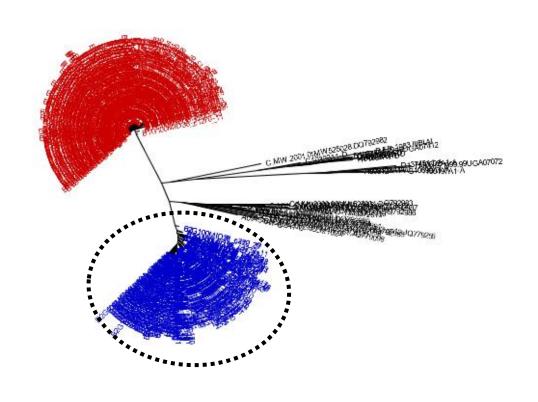


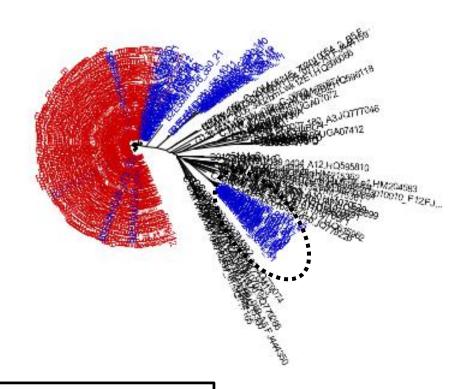


p24 Reads/Consensus sequences Baseline=13954/302 Follow-up=16944/363 gp41 Reads/Consensus sequences
Baseline=1561/33
Follow-up=11466/132

Non-transmitter Case #8-p24 & gp41

Gag genetic distance 2.3%; PY=2.0 (Rate=1.2 per year) gp41 genetic distance 6.6%; PY=2.0 (Rate=3.3 per year)



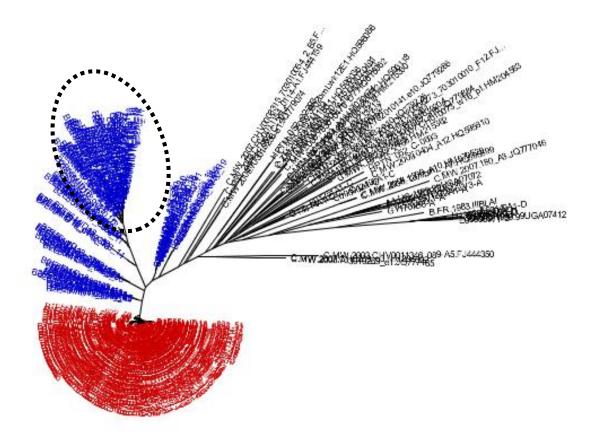


p24 Reads/Consensus sequences Baseline=16695/311 Follow-up=12989/184 gp41 Reads/Consensus sequences
Baseline=11533/156
Follow-up=3347/60

Non-transmitter Case #9-gp41

Genetic distance 3.6%; PY=0.6 (Rate=6.0 per year)

Reads/Consensus sequences Baseline=14686/160 Follow-up=15757/216



Non-transmitter Case #10-p24

Genetic distance 3.6%; PY=2.0 (Rate=1.8 per year)

