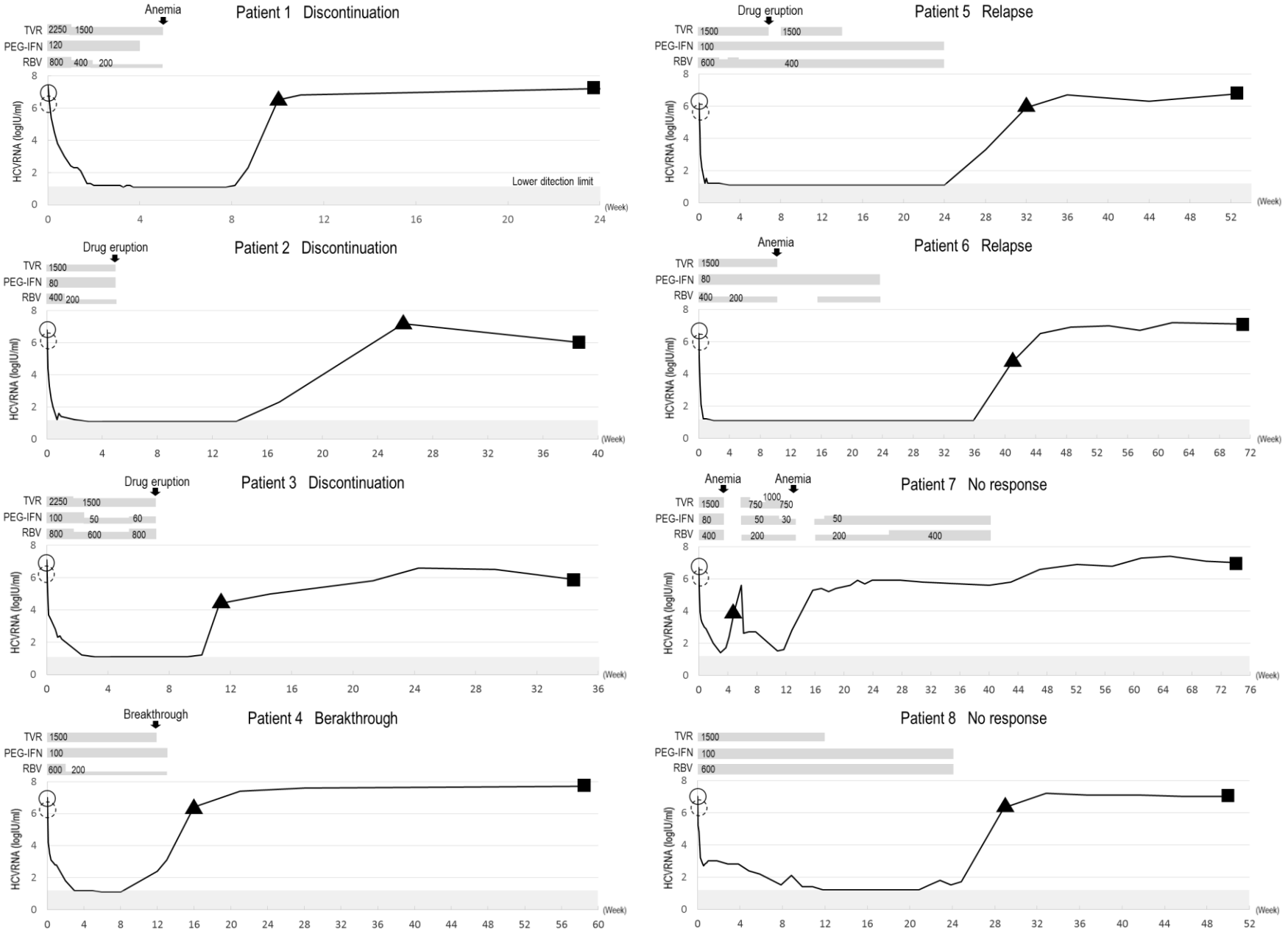
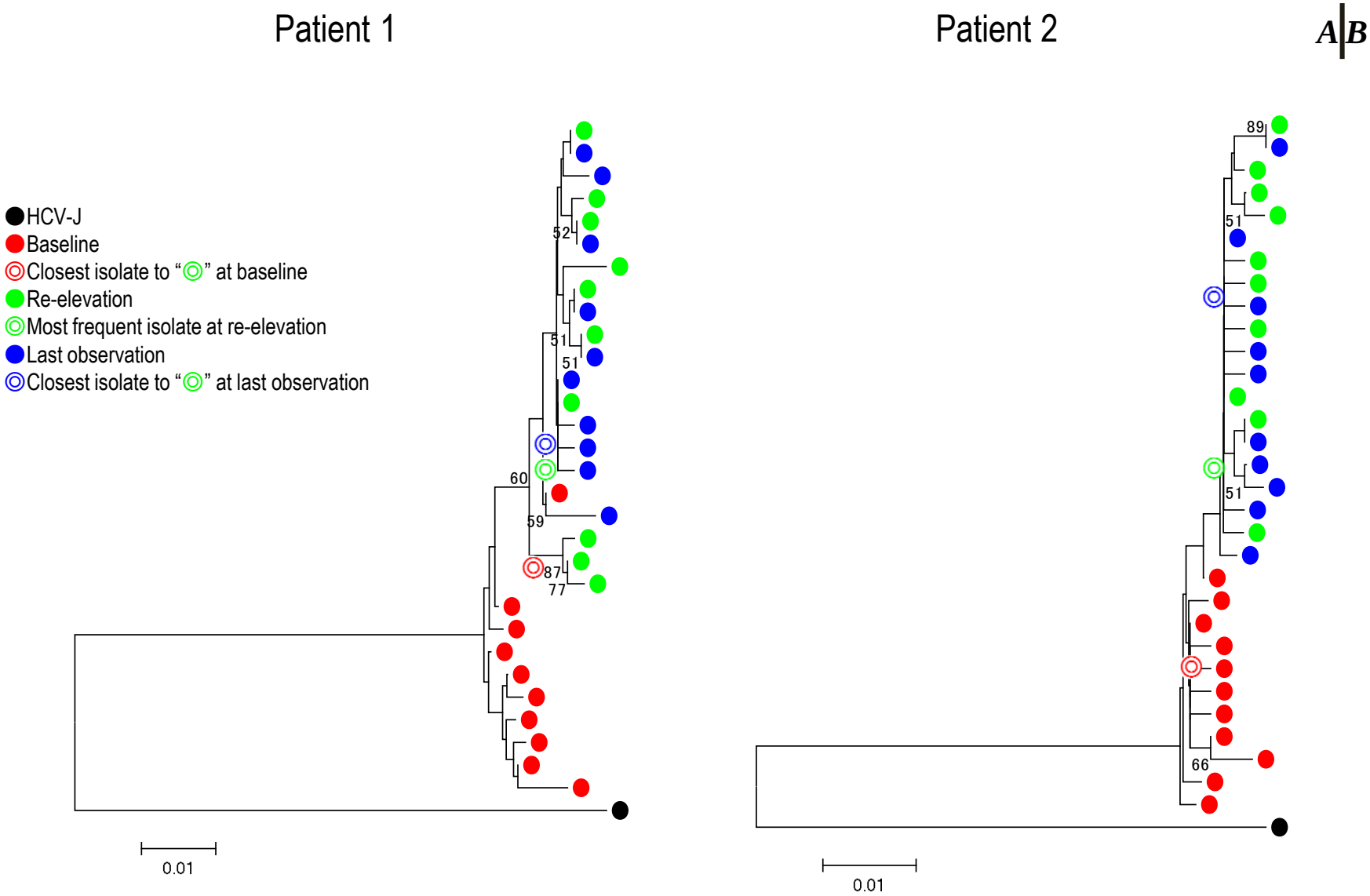


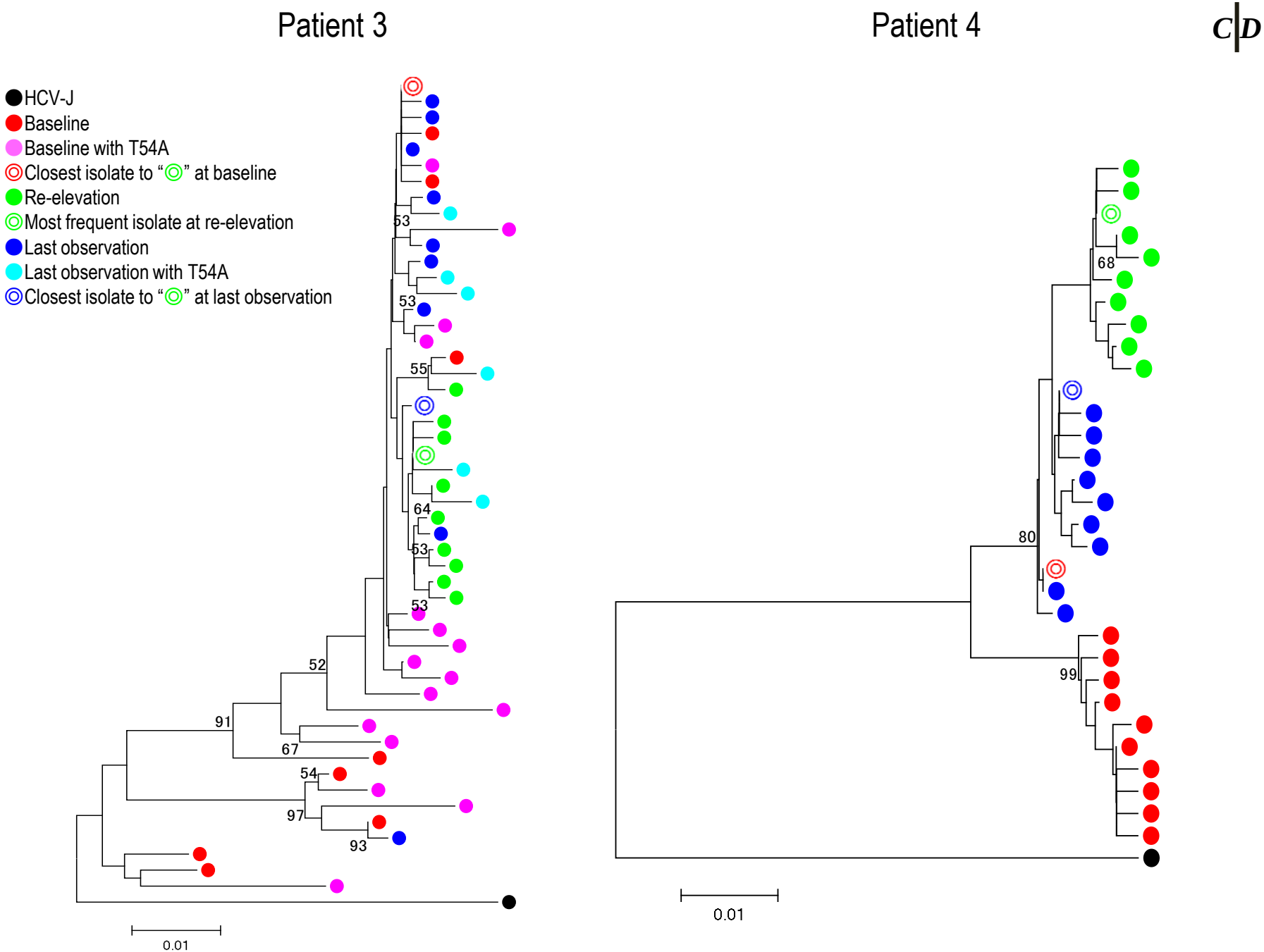

○ Baseline → ◌ 12 h → ▲ Re-elevation → ■ Last observation

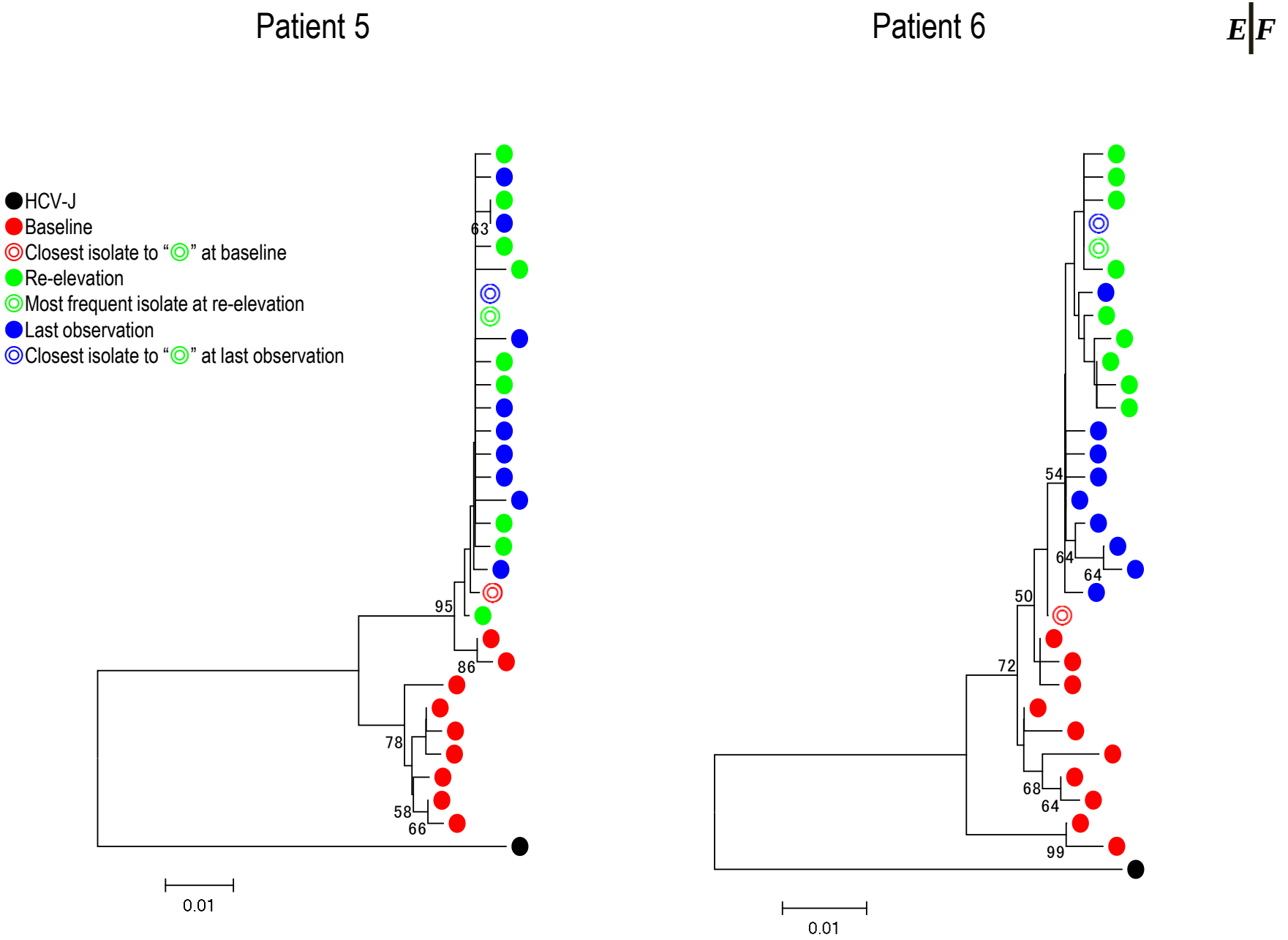
Clinical courses of each non-SVR patient and time points for serum sample collection for deep sequencing.

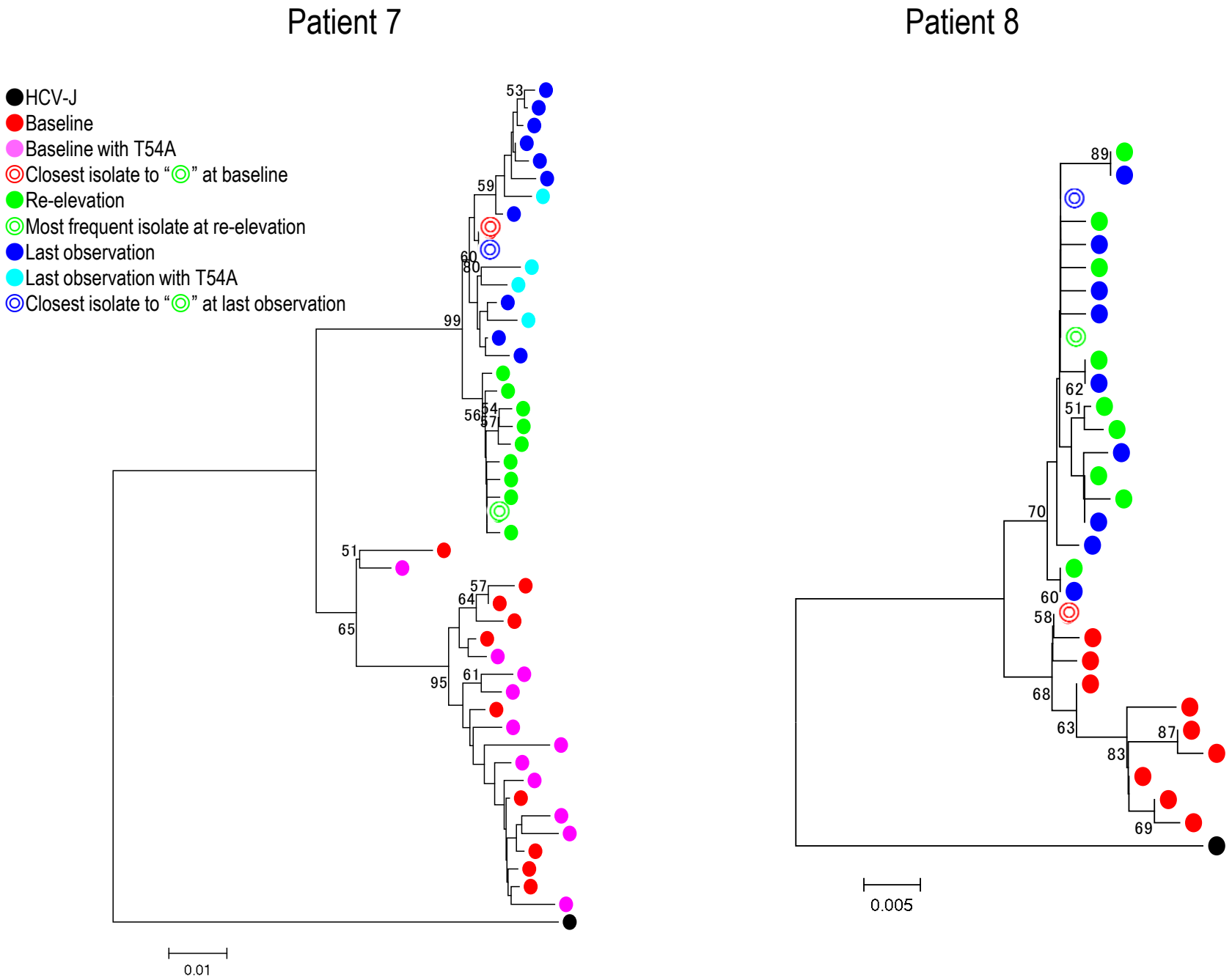



Small-scale phylogenetic trees were reconstructed using the top 10 most populated isolates at baseline, re-elevation, and the last observation in each non-SVR patient and bootstrap values of 50 or more are demonstrated in the phylogenetic trees. The isolate closest to the most frequent isolate found at re-elevation is indicated by the mark "◎" at each time point. Red circles, green circles, and blue circles, respectively, indicate isolates at baseline, at viral RNA re-elevation, and at the last observation.

C|D


Patient 3
Patient 4
HCV-J
Baseline
Baseline with T54A
Closest isolate to "◎" at baseline
Re-elevation
Most frequent isolate at re-elevation
Last observation
Last observation with T54A
Closest isolate to "◎" at last observation
53
53
55
64
53
53
52
91
67
54
97
93
0.01
68
80
99
0.01


Patient 5
Patient 6
HCV-J
Baseline
Closest isolate to "◎" at baseline
Re-elevation
Most frequent isolate at re-elevation
Last observation
Closest isolate to "◎" at last observation
63
95
86
78
58
66
0.01
54
64
64
50
72
68
64
99
0.01


Patient 7
Patient 8
HCV-J
Baseline
Baseline with T54A
Closest isolate to "◎" at baseline
Re-elevation
Most frequent isolate at re-elevation
Last observation
Last observation with T54A
Closest isolate to "◎" at last observation
53
59
60
80
99
56
54
57
51
57
64
65
61
95
0.01
89
62
51
70
60
58
68
63
87
83
69
0.005

| 1st primers | | | |
|---|---|---|---|
| | 5'→3' | | 5'→3' |
| Sense | ATC(A/G)TCACTAGCCTCAC(A/G)GG | Antisense | AATGTCTGCGGTAC(G/A)GCCGG |

| 2nd primers | | | |
|---|---|---|---|
| | 5'→3' | | 5'→3' |
| Sense-Barcode 1 | CGTATCGCCTCCCTCGCGCCATCAGACGAGTGCGTAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 1 | CTATGCGCCTTGCCAGCCCGCTCAGACGAGTGCGTCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 2 | CGTATCGCCTCCCTCGCGCCATCAGACGCTCGACAAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 2 | CTATGCGCCTTGCCAGCCCGCTCAGACGCTCGACACGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 3 | CGTATCGCCTCCCTCGCGCCATCAGAGACGCACTCAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 3 | CTATGCGCCTTGCCAGCCCGCTCAGAGACGCACTCCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 4 | CGTATCGCCTCCCTCGCGCCATCAGAGCACTGTAGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 4 | CTATGCGCCTTGCCAGCCCGCTCAGAGCACTGTAGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 5 | CGTATCGCCTCCCTCGCGCCATCAGATCAGACACGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 5 | CTATGCGCCTTGCCAGCCCGCTCAGATCAGACACGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 6 | CGTATCGCCTCCCTCGCGCCATCAGATATCGCGAGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 6 | CTATGCGCCTTGCCAGCCCGCTCAGATATCGCGAGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 7 | CGTATCGCCTCCCTCGCGCCATCAGCGTGTCTCTAAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 7 | CTATGCGCCTTGCCAGCCCGCTCAGCGTGTCTCTACGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 8 | CGTATCGCCTCCCTCGCGCCATCAGCTCGCGTGTCAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 8 | CTATGCGCCTTGCCAGCCCGCTCAGCTCGCGTGTCCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 9 | CGTATCGCCTCCCTCGCGCCATCAGTAGTATCAGCAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 9 | CTATGCGCCTTGCCAGCCCGCTCAGTAGTATCAGCCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 10 | CGTATCGCCTCCCTCGCGCCATCAGTCTCTATGCGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 10 | CTATGCGCCTTGCCAGCCCGCTCAGTCTCTATGCGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 11 | CGTATCGCCTCCCTCGCGCCATCAGTGATACGTCTAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 11 | CTATGCGCCTTGCCAGCCCGCTCAGTGATACGTCTCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 12 | CGTATCGCCTCCCTCGCGCCATCAGTACTGAGCTAAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 12 | CTATGCGCCTTGCCAGCCCGCTCAGTACTGAGCTACGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 13 | CGTATCGCCTCCCTCGCGCCATCAGCATAGTAGTGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 13 | CTATGCGCCTTGCCAGCCCGCTCAGCATAGTAGTGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 14 | CGTATCGCCTCCCTCGCGCCATCAGCGAGAGATACAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 14 | CTATGCGCCTTGCCAGCCCGCTCAGCGAGAGATACCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 15 | CGTATCGCCTCCCTCGCGCCATCAGATACGACGTAAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 15 | CTATGCGCCTTGCCAGCCCGCTCAGATACGACGTACGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 16 | CGTATCGCCTCCCTCGCGCCATCAGTCACGTACTAAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 16 | CTATGCGCCTTGCCAGCCCGCTCAGTCACGTACTACGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 17 | CGTATCGCCTCCCTCGCGCCATCAGCGTCTAGTACAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 17 | CTATGCGCCTTGCCAGCCCGCTCAGCGTCTAGTACCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 18 | CGTATCGCCTCCCTCGCGCCATCAGTCTACGTAGCAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 18 | CTATGCGCCTTGCCAGCCCGCTCAGTCTACGTAGCCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 19 | CGTATCGCCTCCCTCGCGCCATCAGTGTACTACTCAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 19 | CTATGCGCCTTGCCAGCCCGCTCAGTGTACTACTCCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 20 | CGTATCGCCTCCCTCGCGCCATCAGACGACTACAGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 20 | CTATGCGCCTTGCCAGCCCGCTCAGACGACTACAGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 21 | CGTATCGCCTCCCTCGCGCCATCAGCGTAGACTAGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 21 | CTATGCGCCTTGCCAGCCCGCTCAGCGTAGACTAGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 22 | CGTATCGCCTCCCTCGCGCCATCAGTACGAGTATGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 22 | CTATGCGCCTTGCCAGCCCGCTCAGTACGAGTATGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 23 | CGTATCGCCTCCCTCGCGCCATCAGTACTCTCGTGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 23 | CTATGCGCCTTGCCAGCCCGCTCAGTACTCTCGTGCGTGAAGACCGGAGACCGCAT |
| Sense-Barcode 24 | CGTATCGCCTCCCTCGCGCCATCAGTAGAGACGAGAGCCTTACAGGTCGGGACAAGAA | Antisense-Barcode 24 | CTATGCGCCTTGCCAGCCCGCTCAGTAGAGACGAGCGTGAAGACCGGAGACCGCAT |