Proteomics reveals antiviral host response and NETosis during acute COVID-19 in high-risk patients

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Supplementary Tables

Table S1: Description of confounders

Table S2: Clinical characteristics for different subgroups of the cohort at admission

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Table S8: Differential Abundance Analysis Results in the Study Cohort: Phases compared to control groups

Table S9: Pathway Enrichment Analysis in the Study Cohort: Phases compared to control groups

Table S10: Differential Abundance Analysis Results in the Validation Cohort: Phases compared to control groups

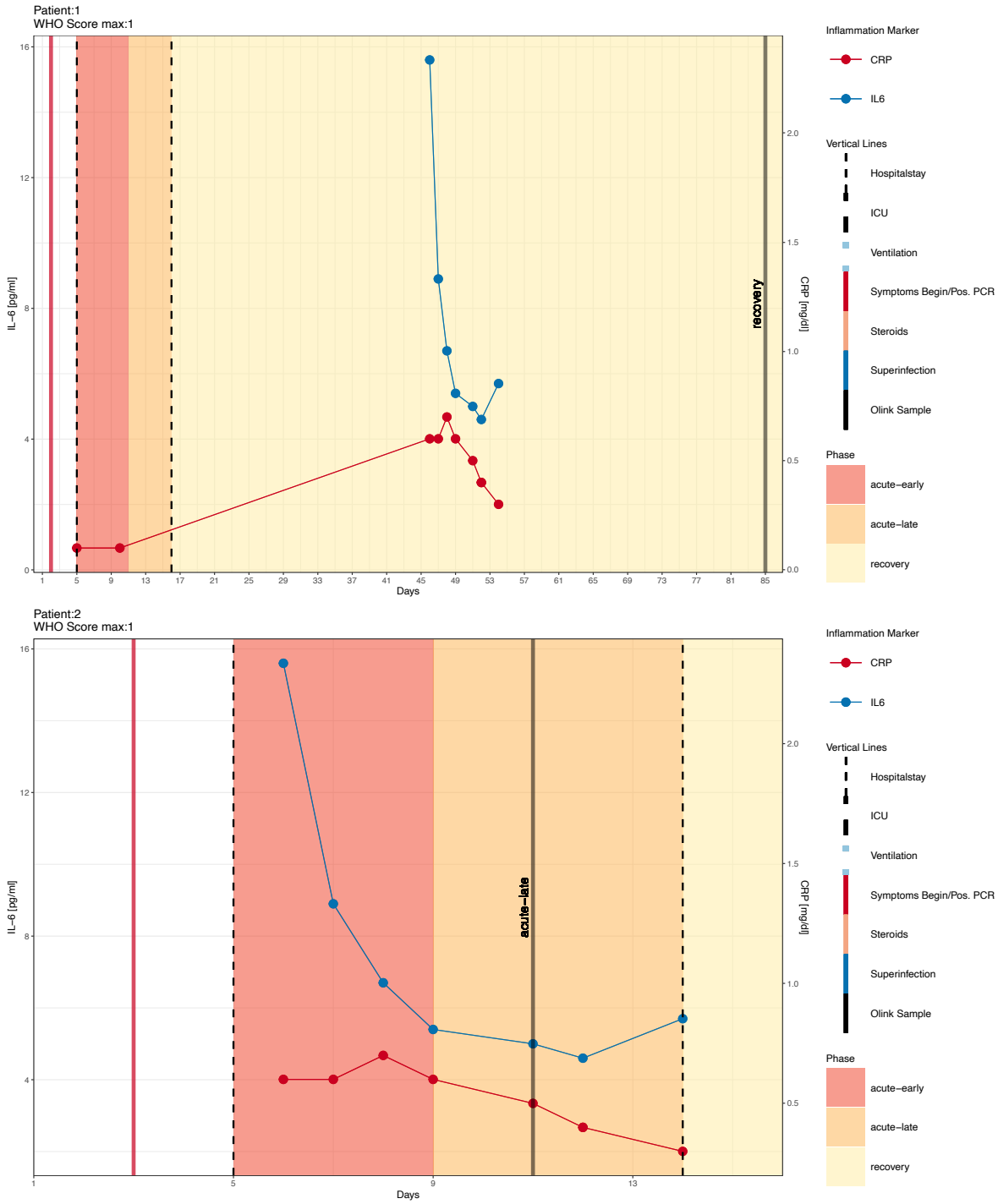
Table S11: Differential Abundance Analysis Results in the Study Cohort: Trajectory comparisons

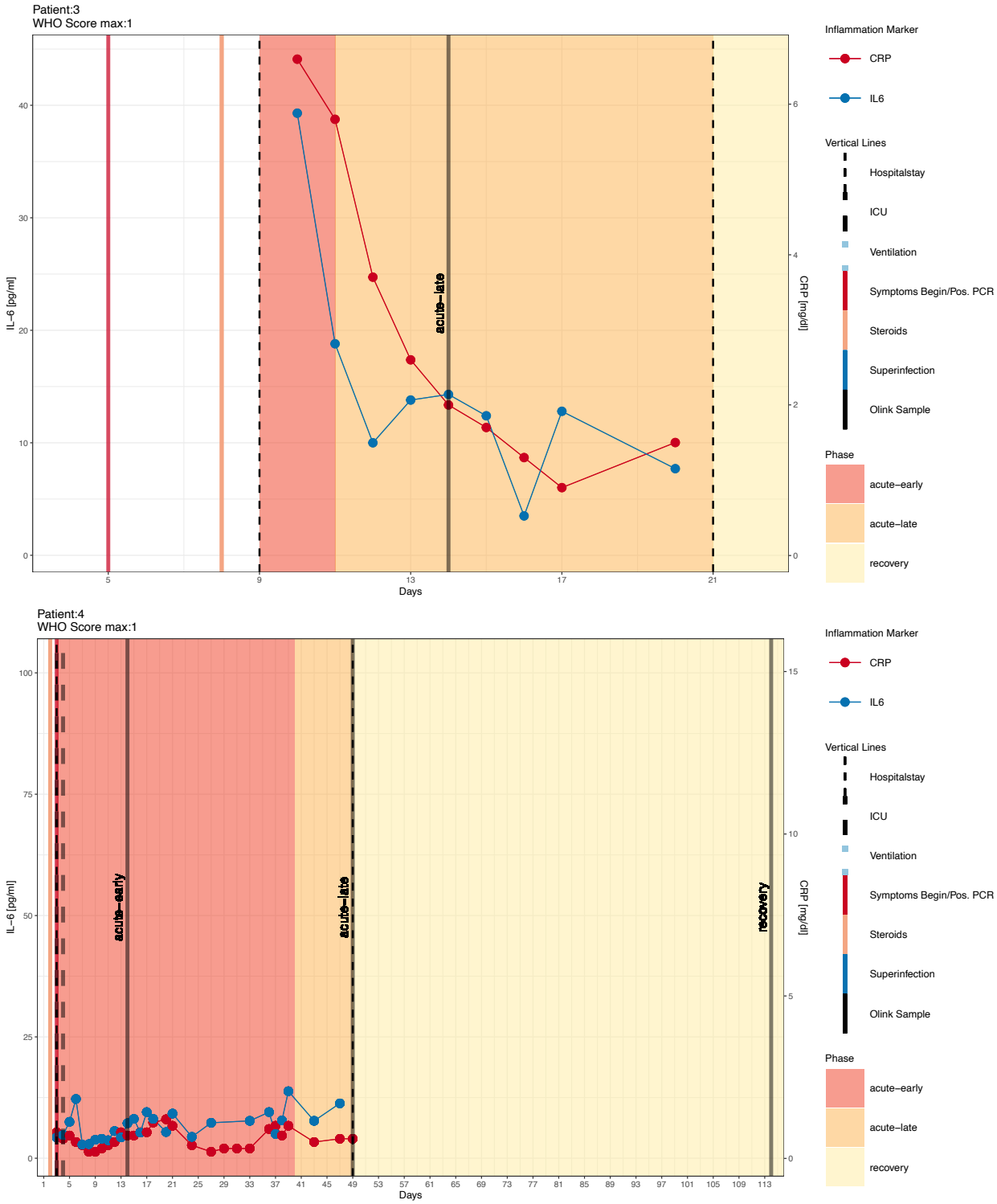
Table S12: Pathway Enrichment Analysis Results in the Study Cohort: Trajectory comparisons

Supplementary Figures

Figure S1: Individual patient trajectories of CRP and IL-6.

Covid-positive: max WHO score =1 (n= 8)

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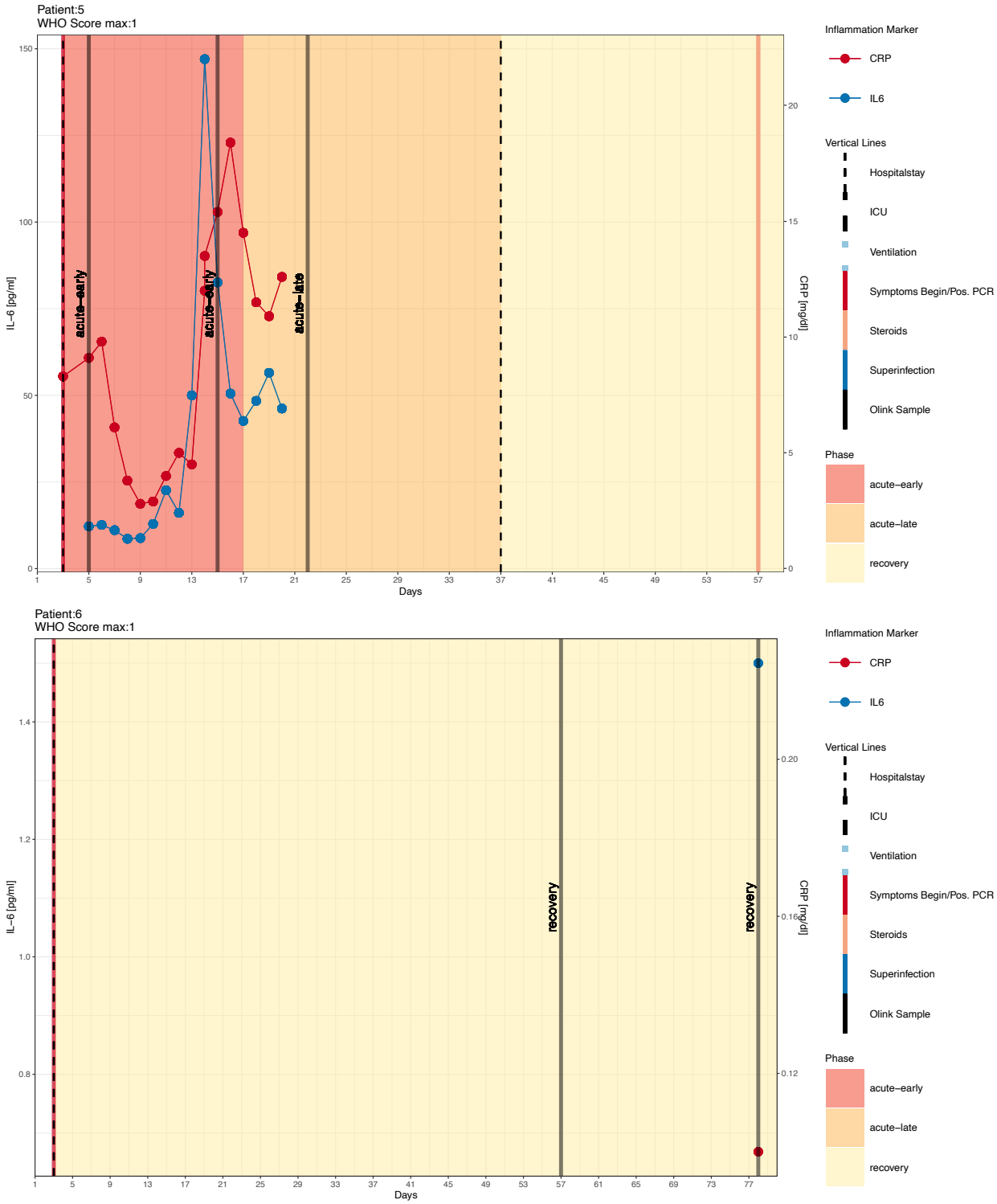
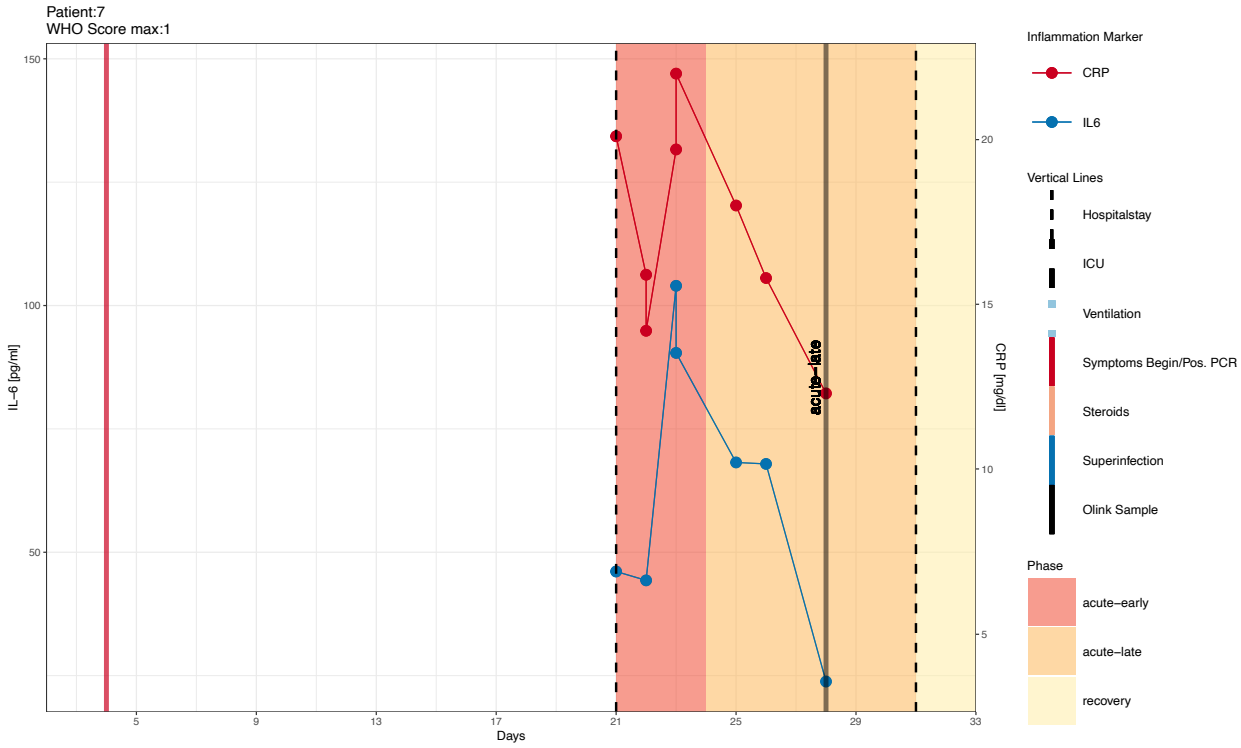
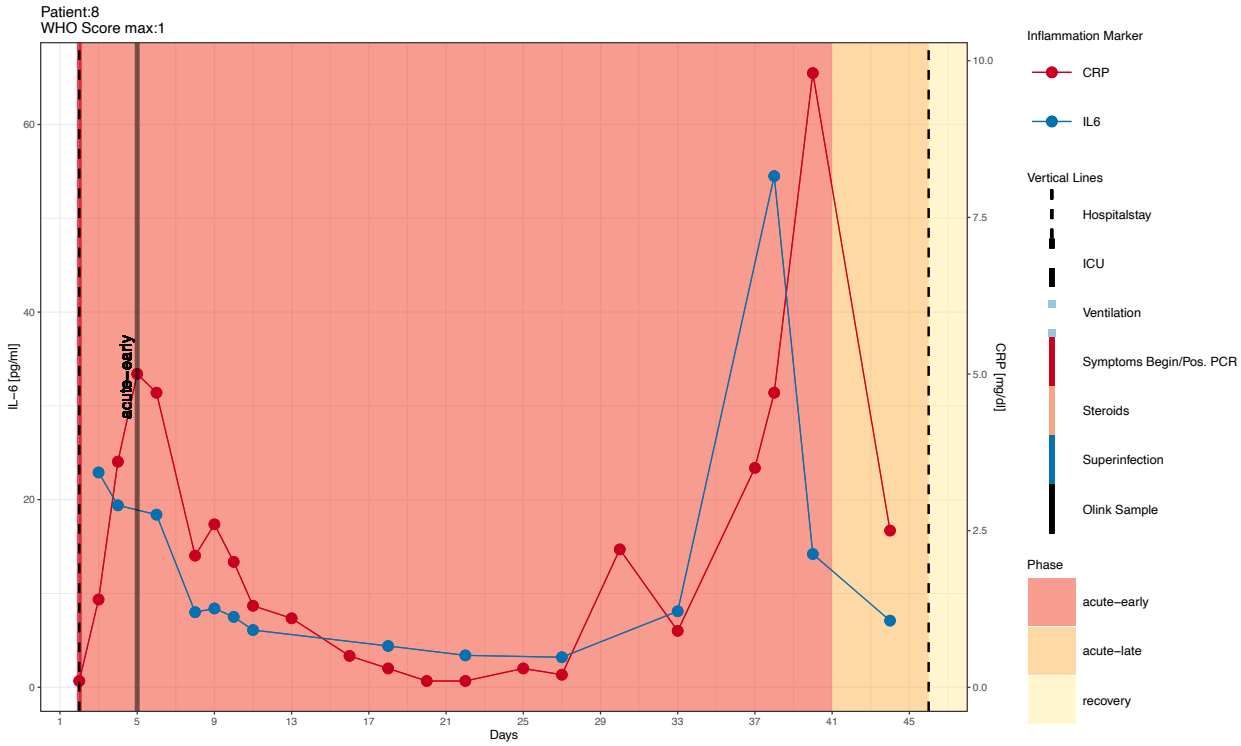
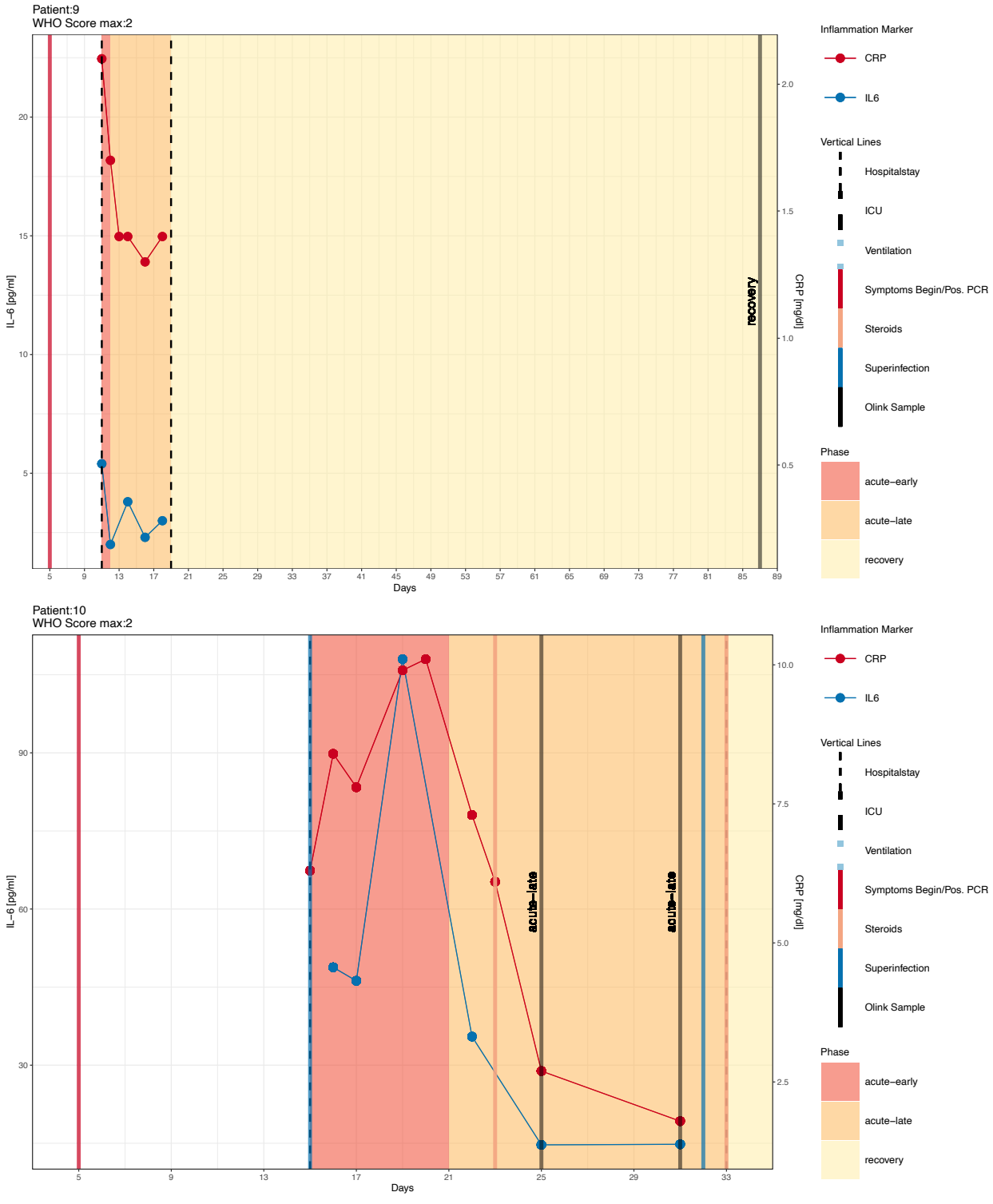
WHO Score max:1
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Patient:4
WHO Score max:1
acute−early
acute−late
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

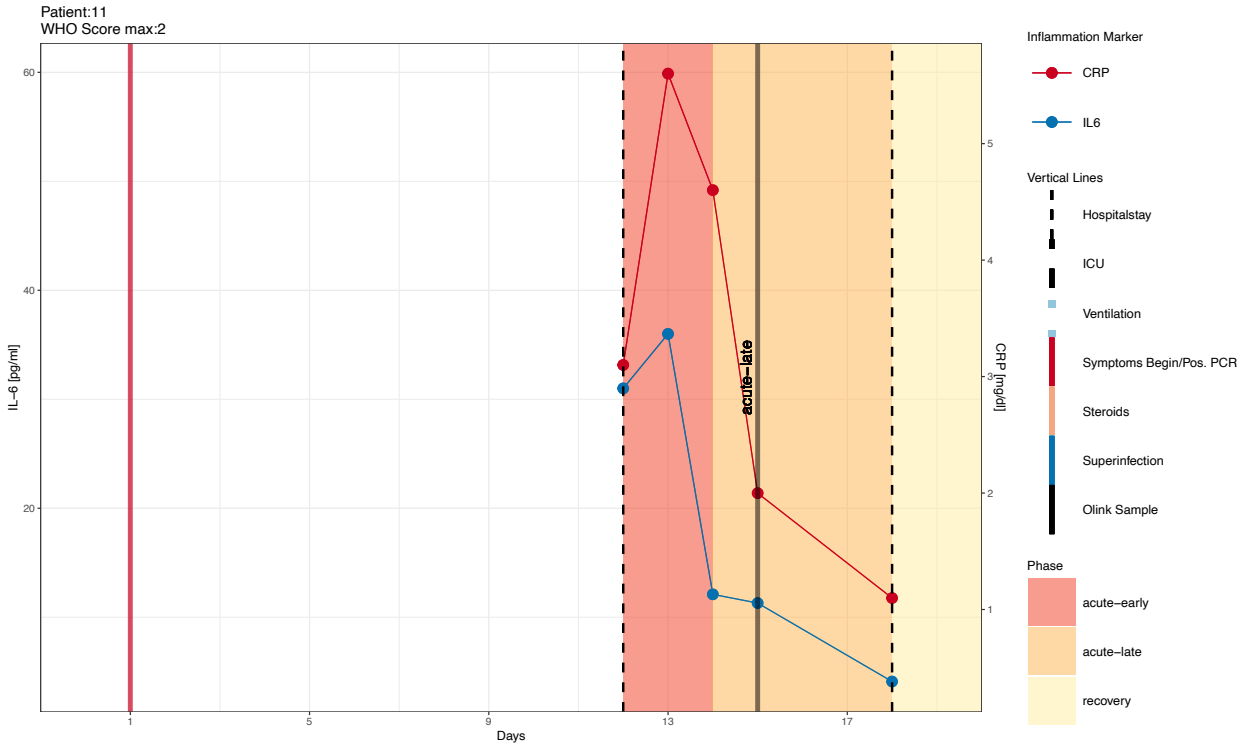

Patient:5
WHO Score max:1
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:6
WHO Score max:1
IL−6 [pg/ml]
CRP [mg/dl]
Days
recovery
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

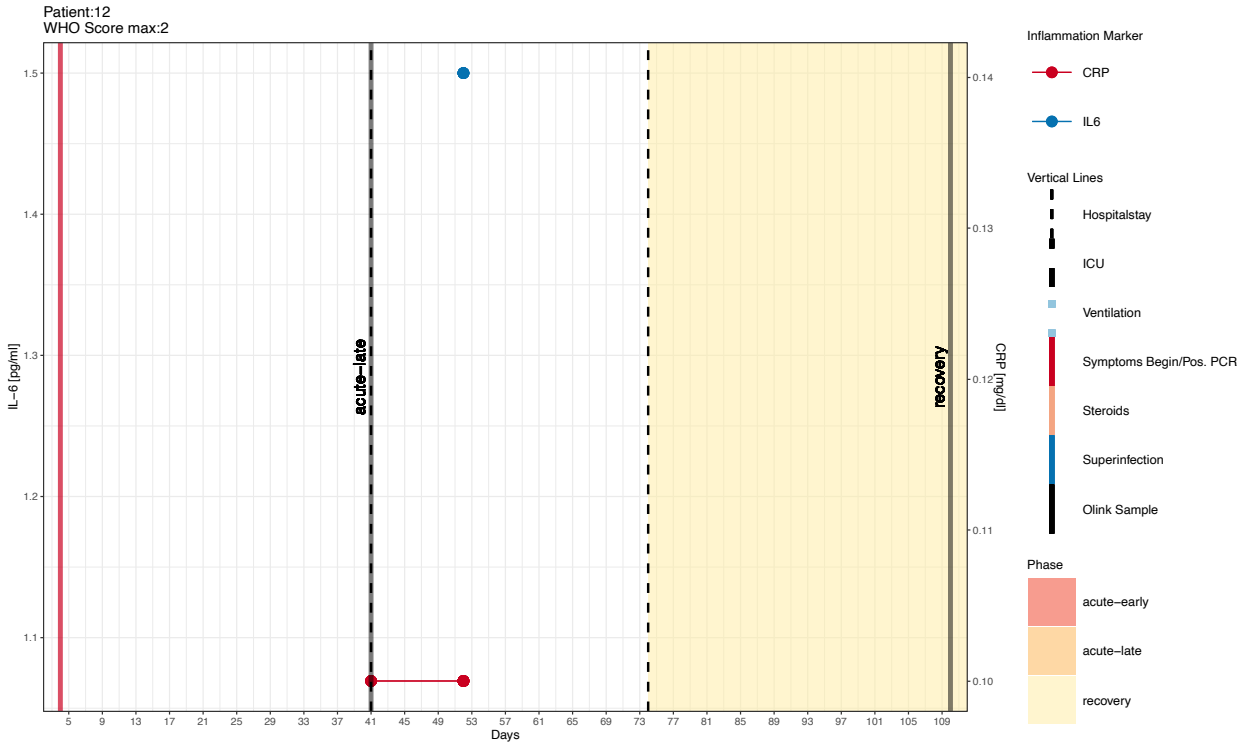

Patient:7
WHO Score max:1
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:8
WHO Score max:1
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

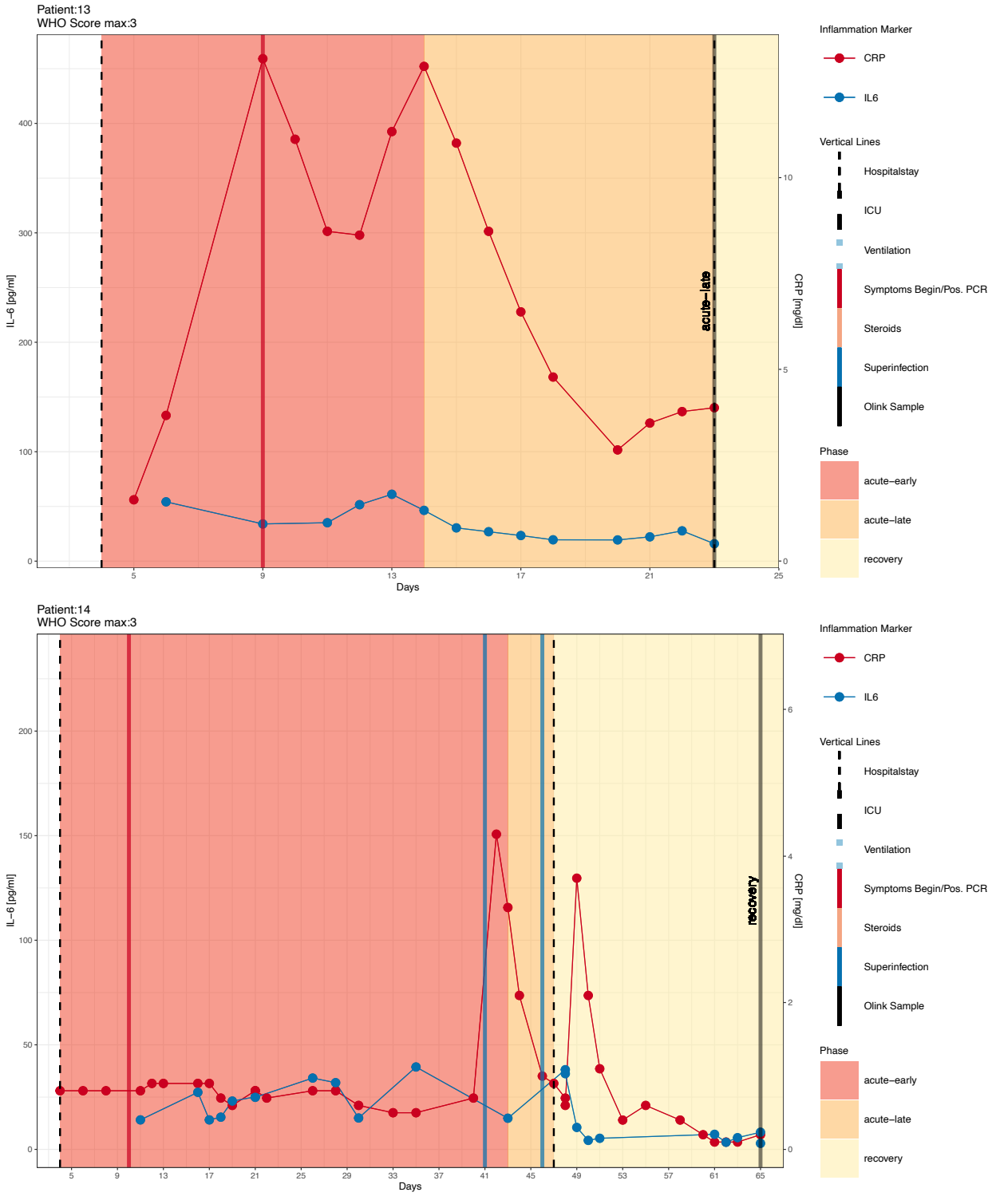
Covid-positive: max WHO score =2 (n= 4)

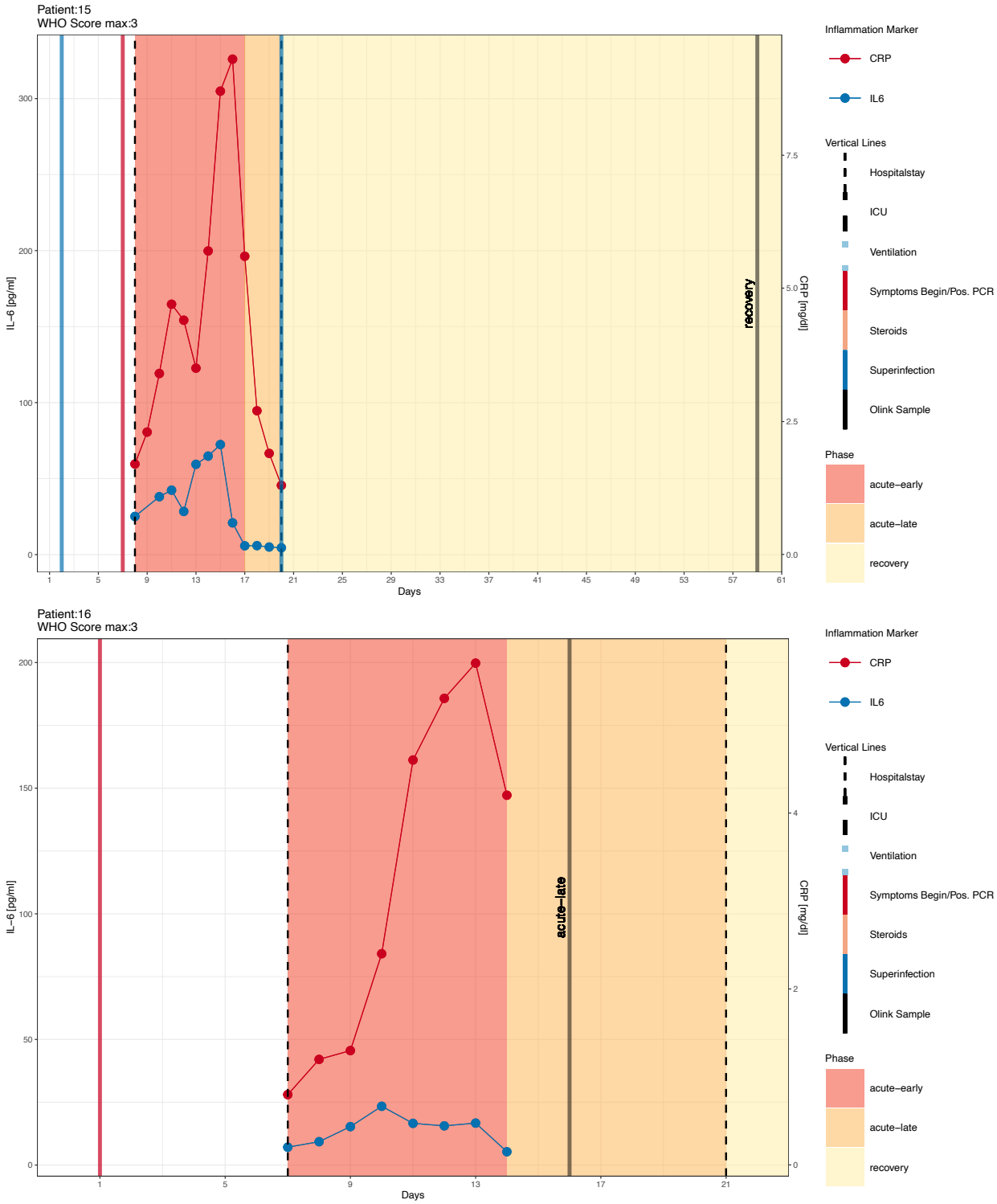


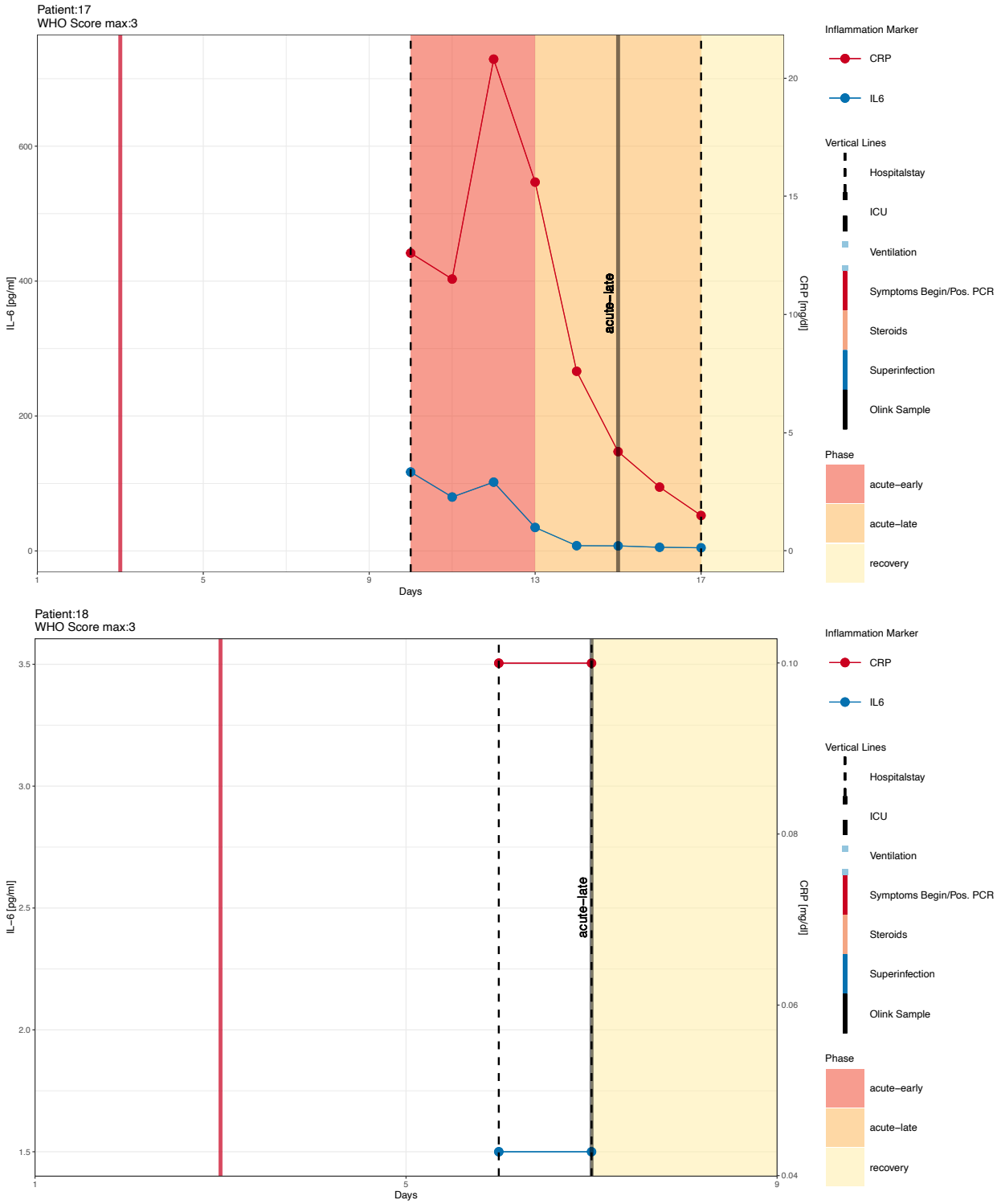

Patient:11
WHO Score max:2
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

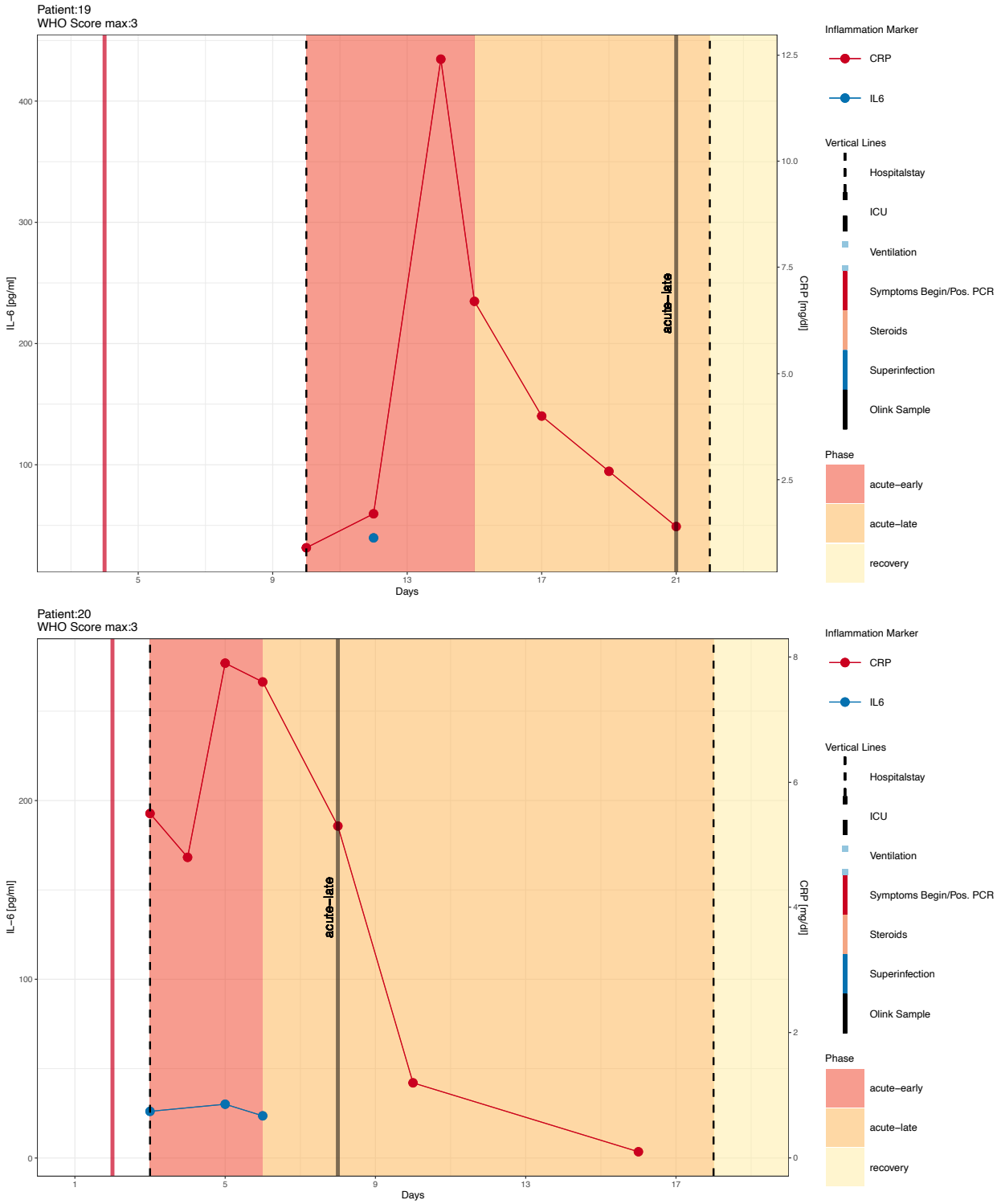

Patient:12
WHO Score max:2
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

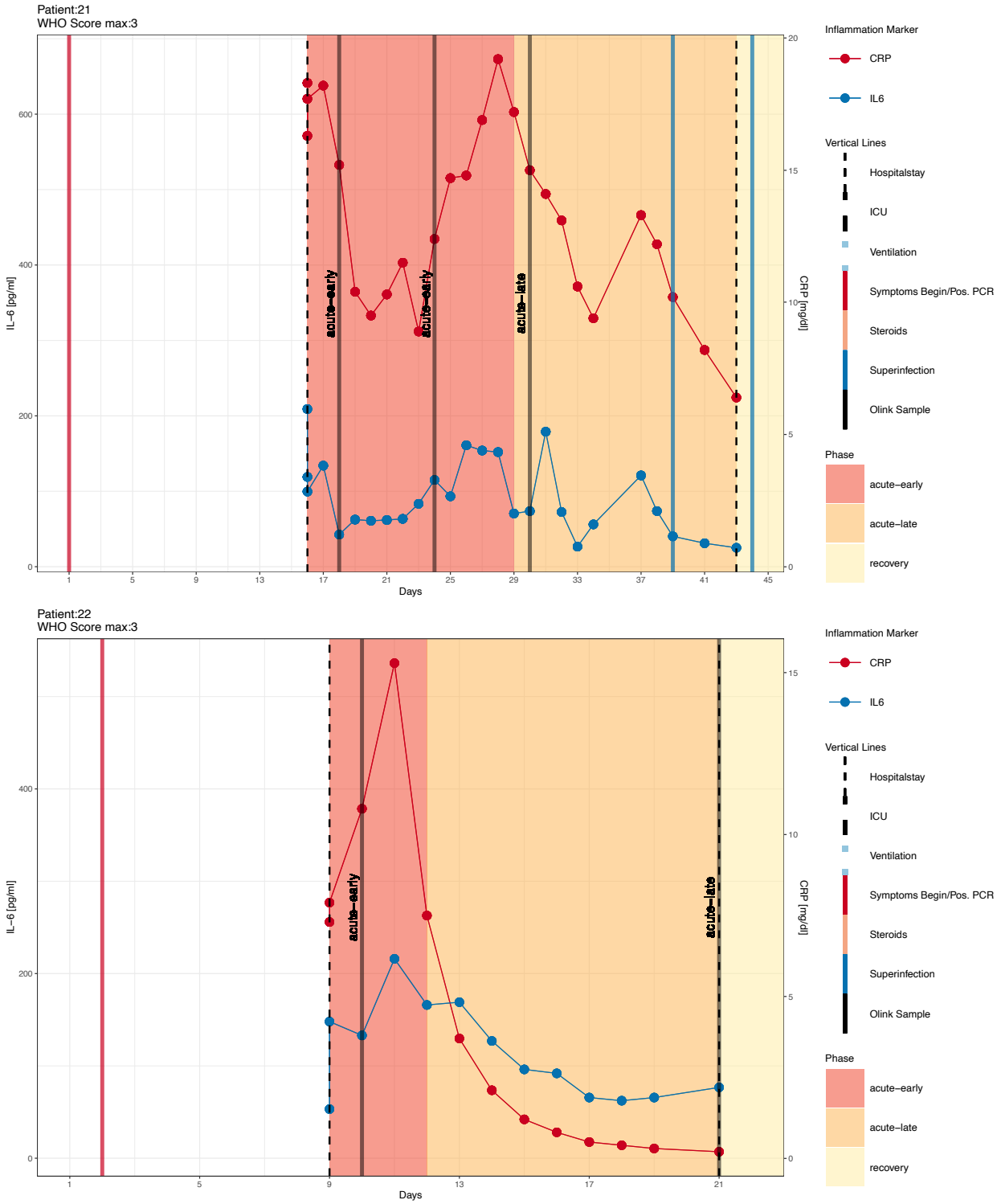
Covid-positive: max WHO score =3 (n= 25)

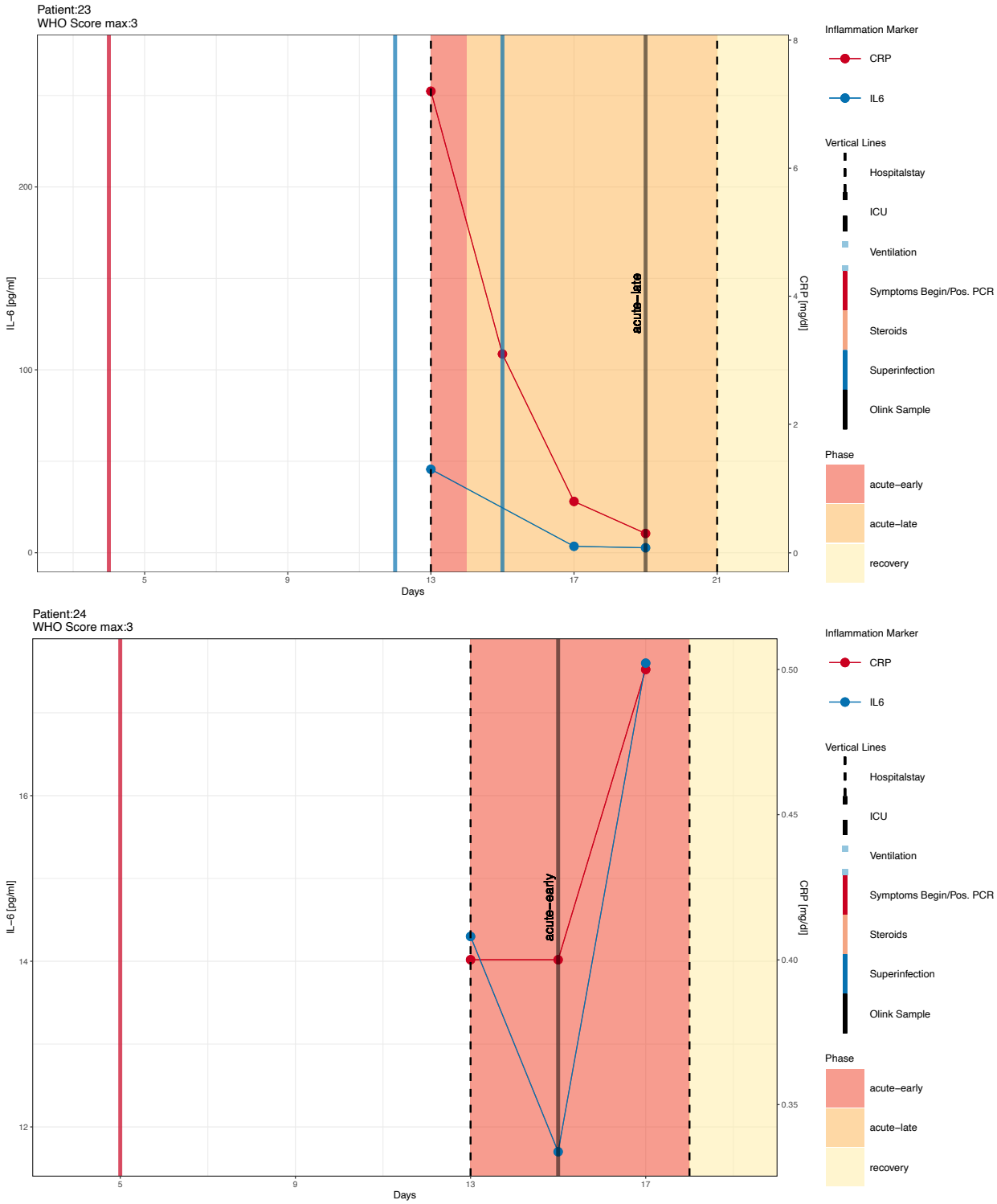


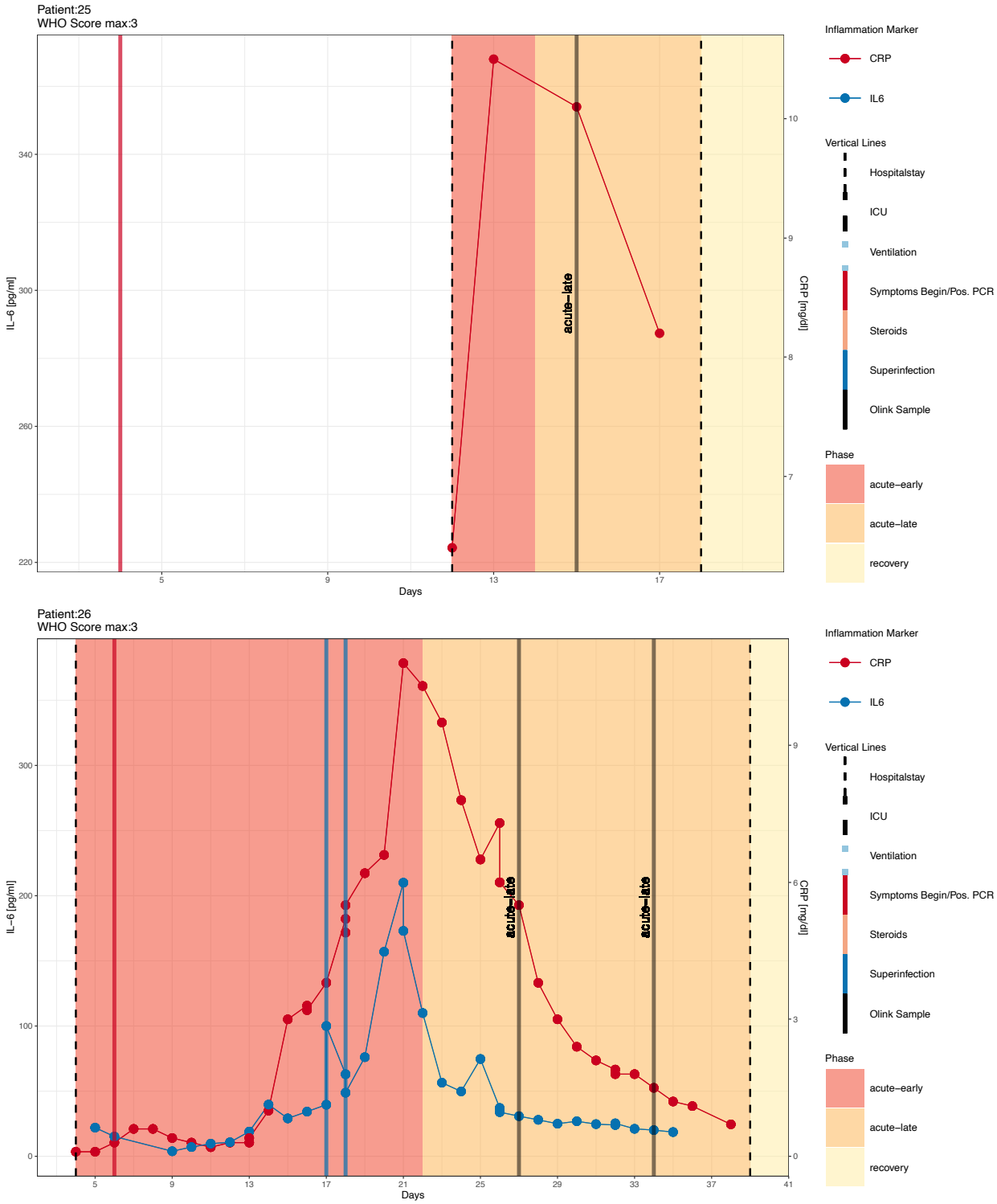

Patient:15
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
recovery
Patient:16
WHO Score max:3
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

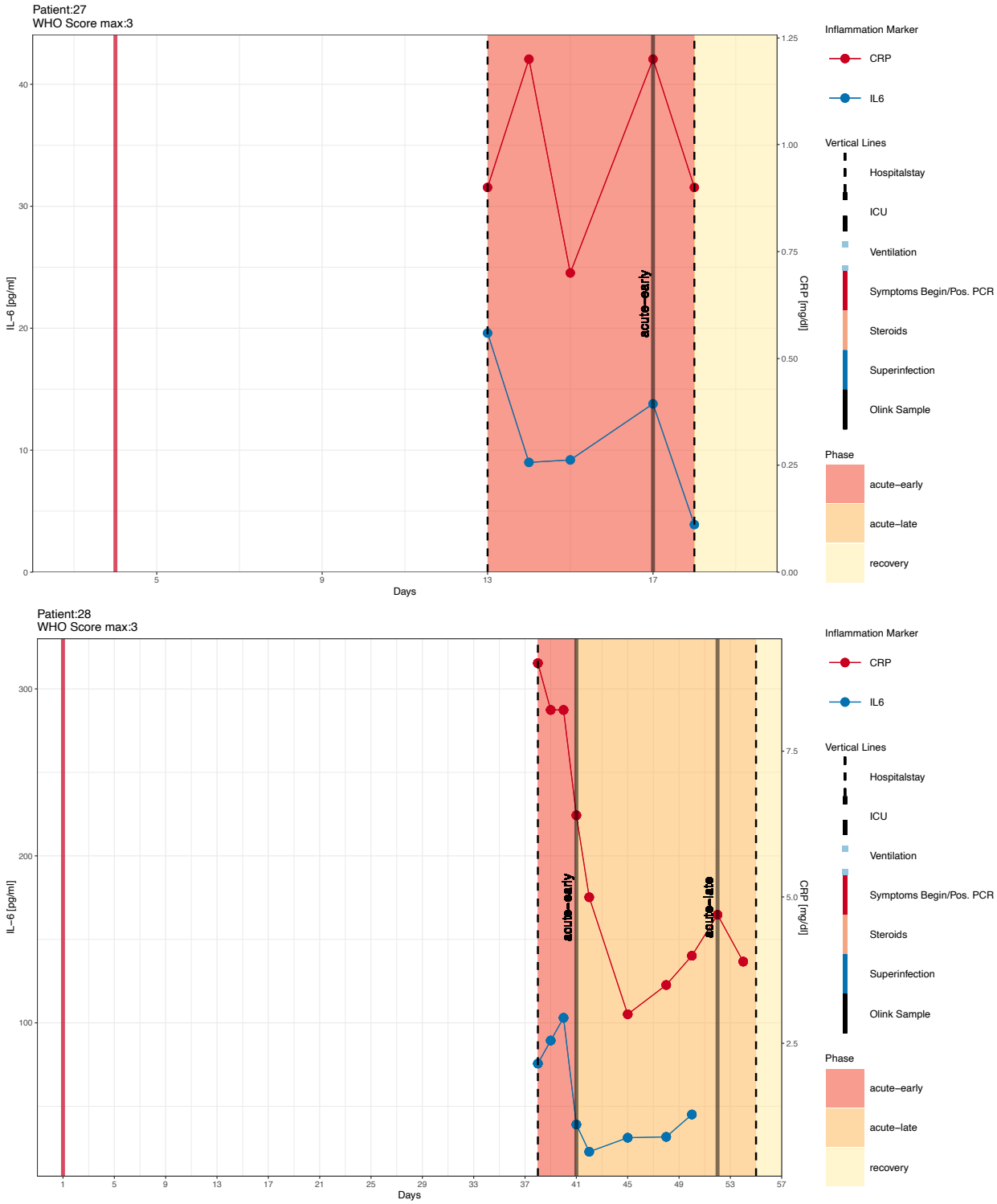

Patient:17
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:18
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

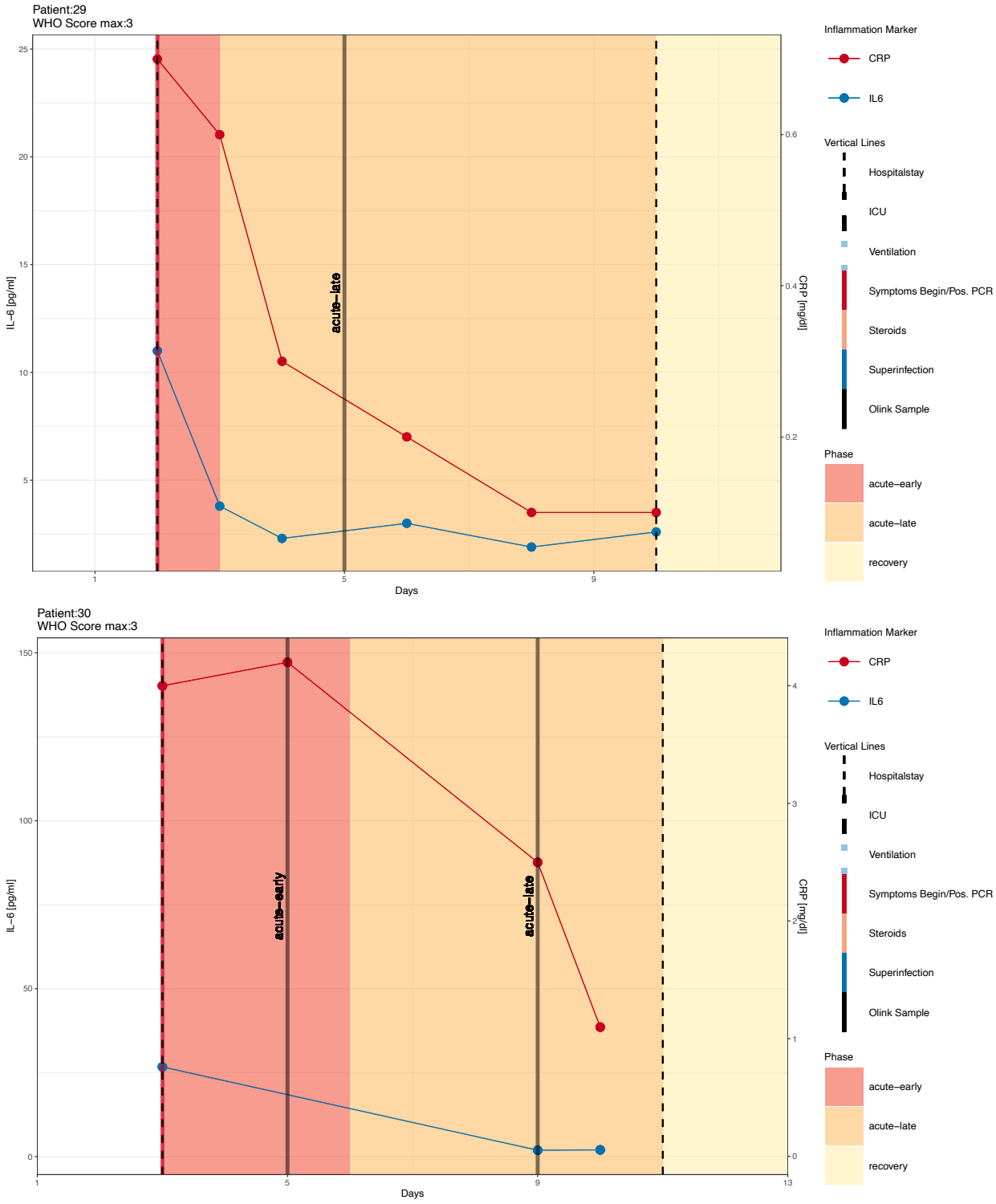

Patient:19
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:20
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

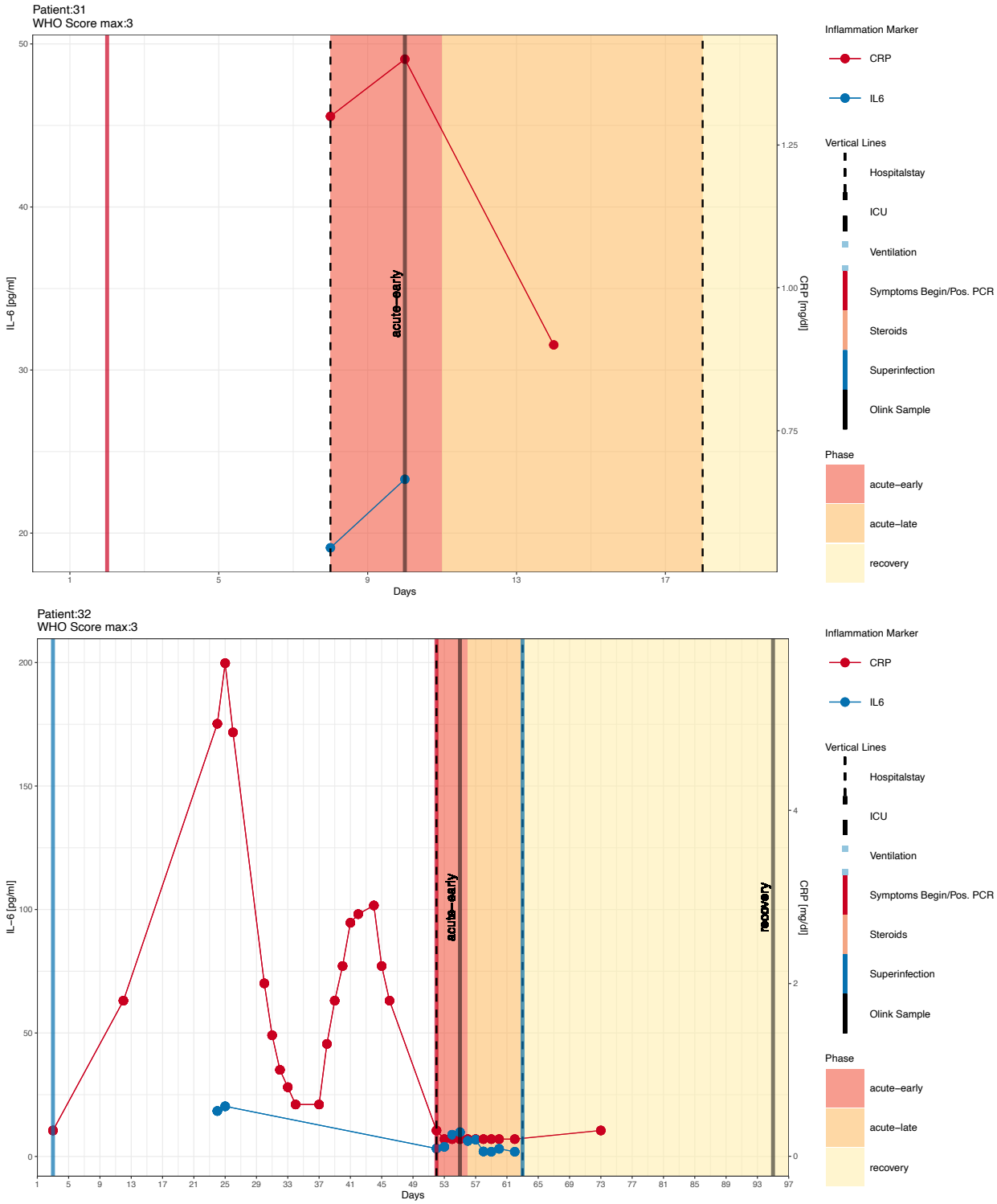

Patient:21
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:22
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:23
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:24
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:25
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:26
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:27
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:28
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:29
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:30
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery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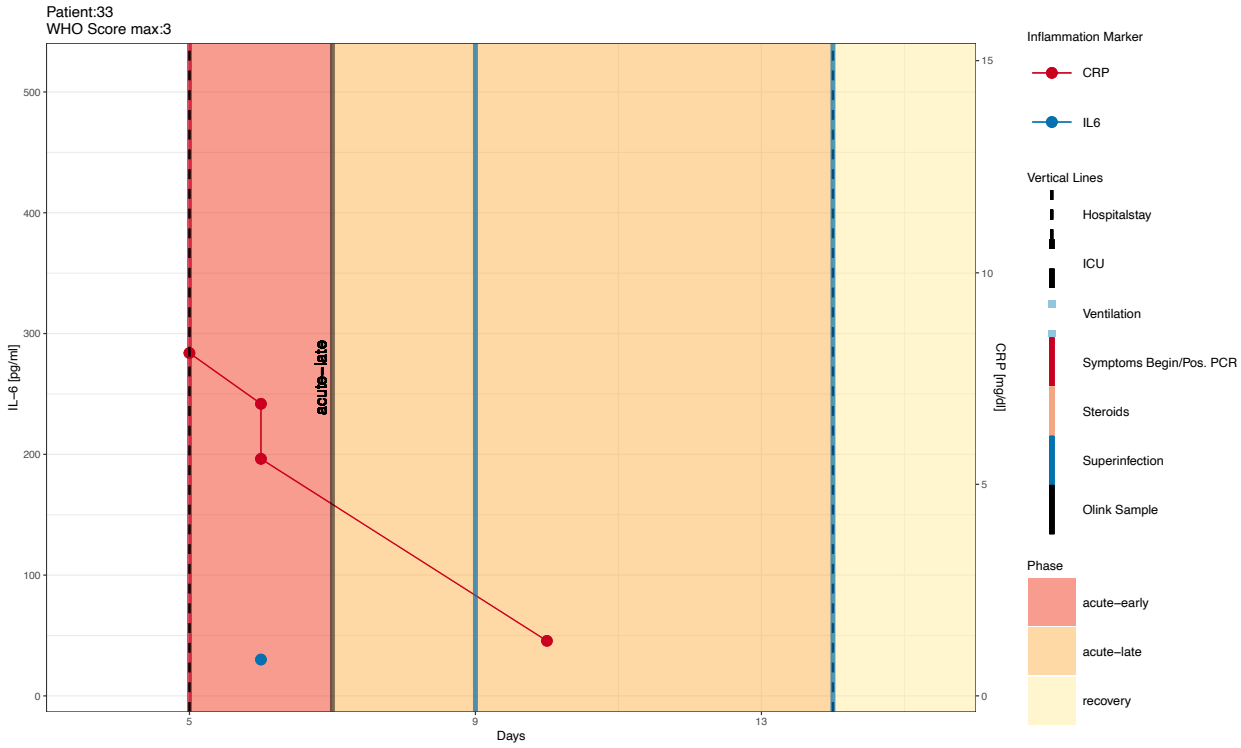
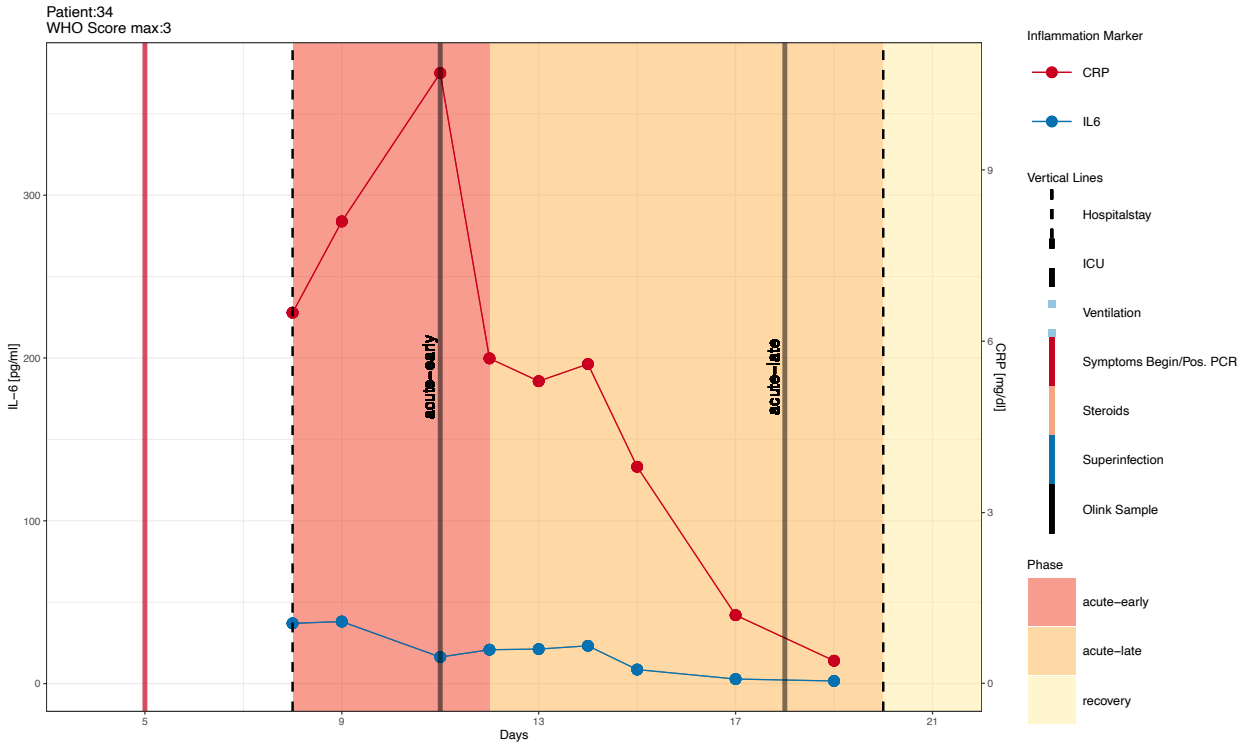
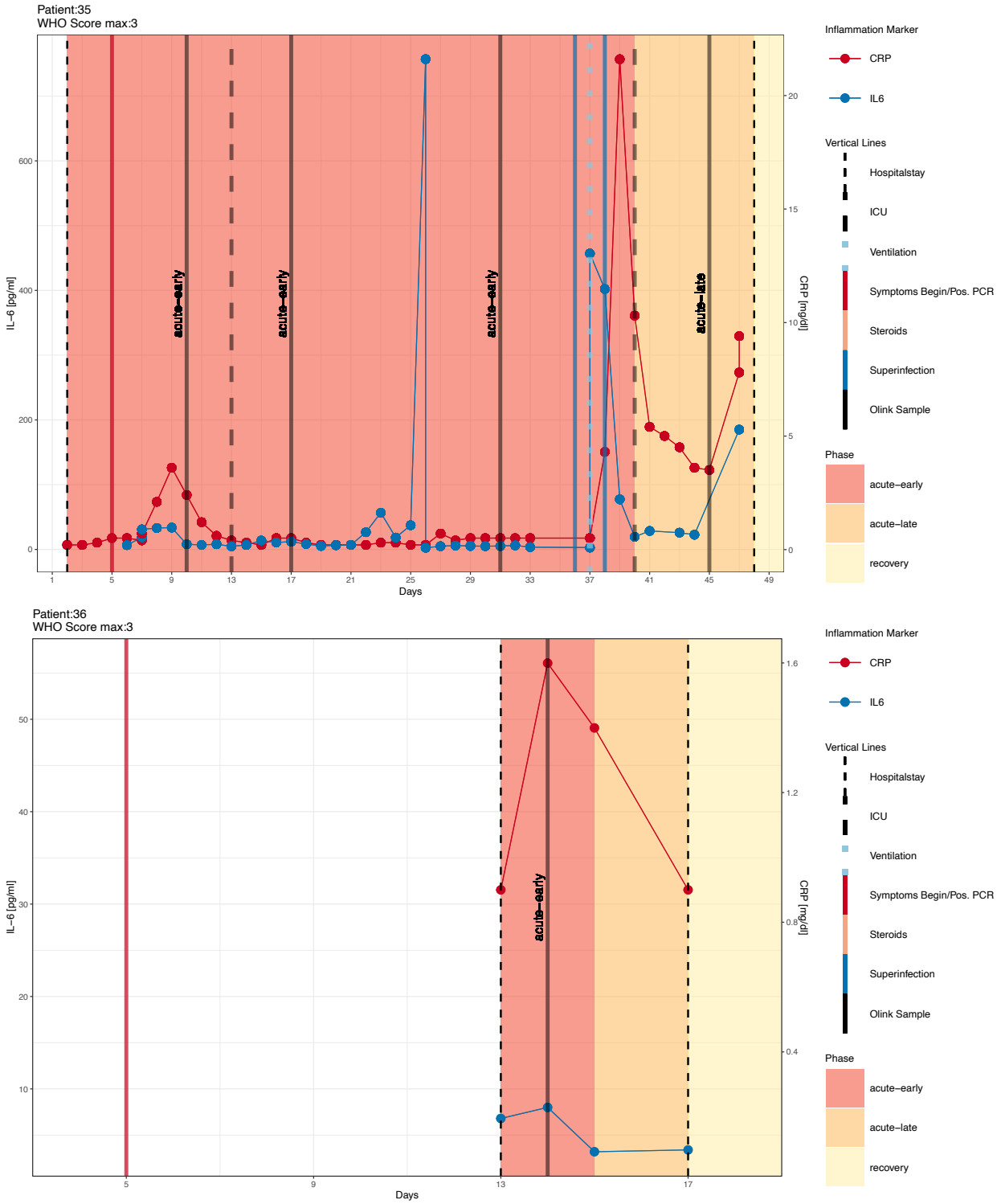
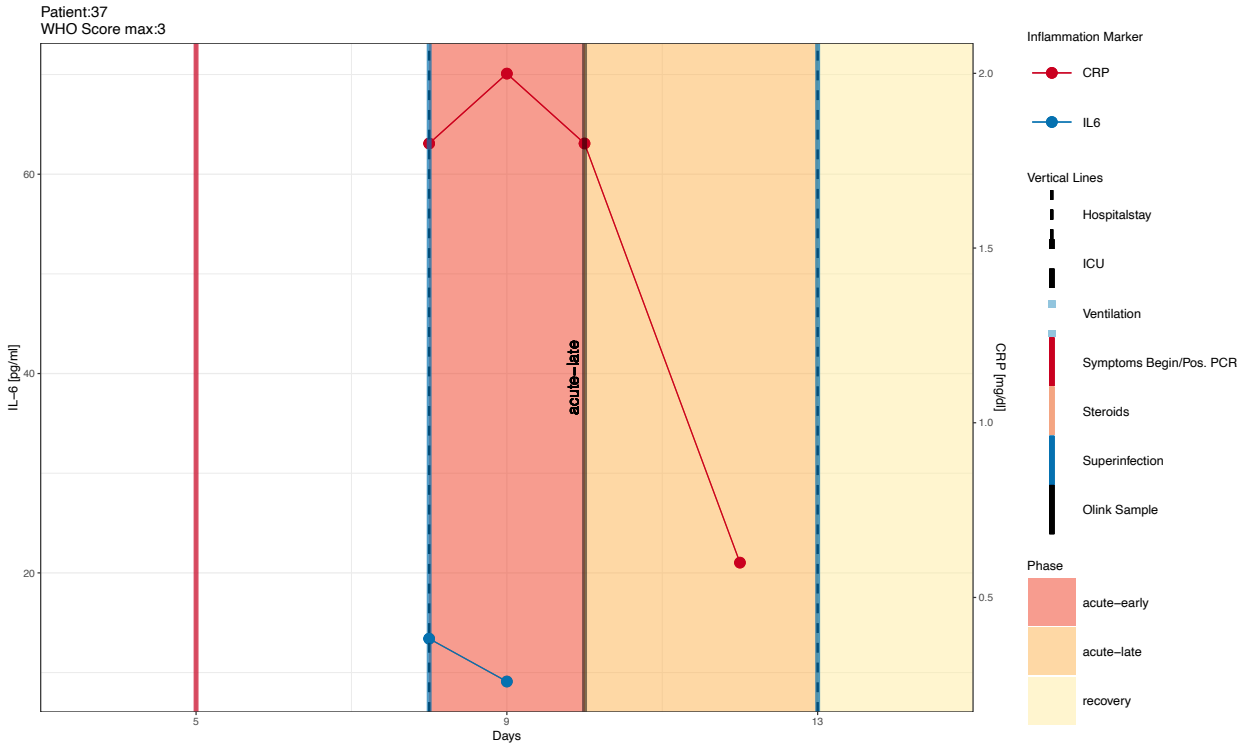
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:32
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

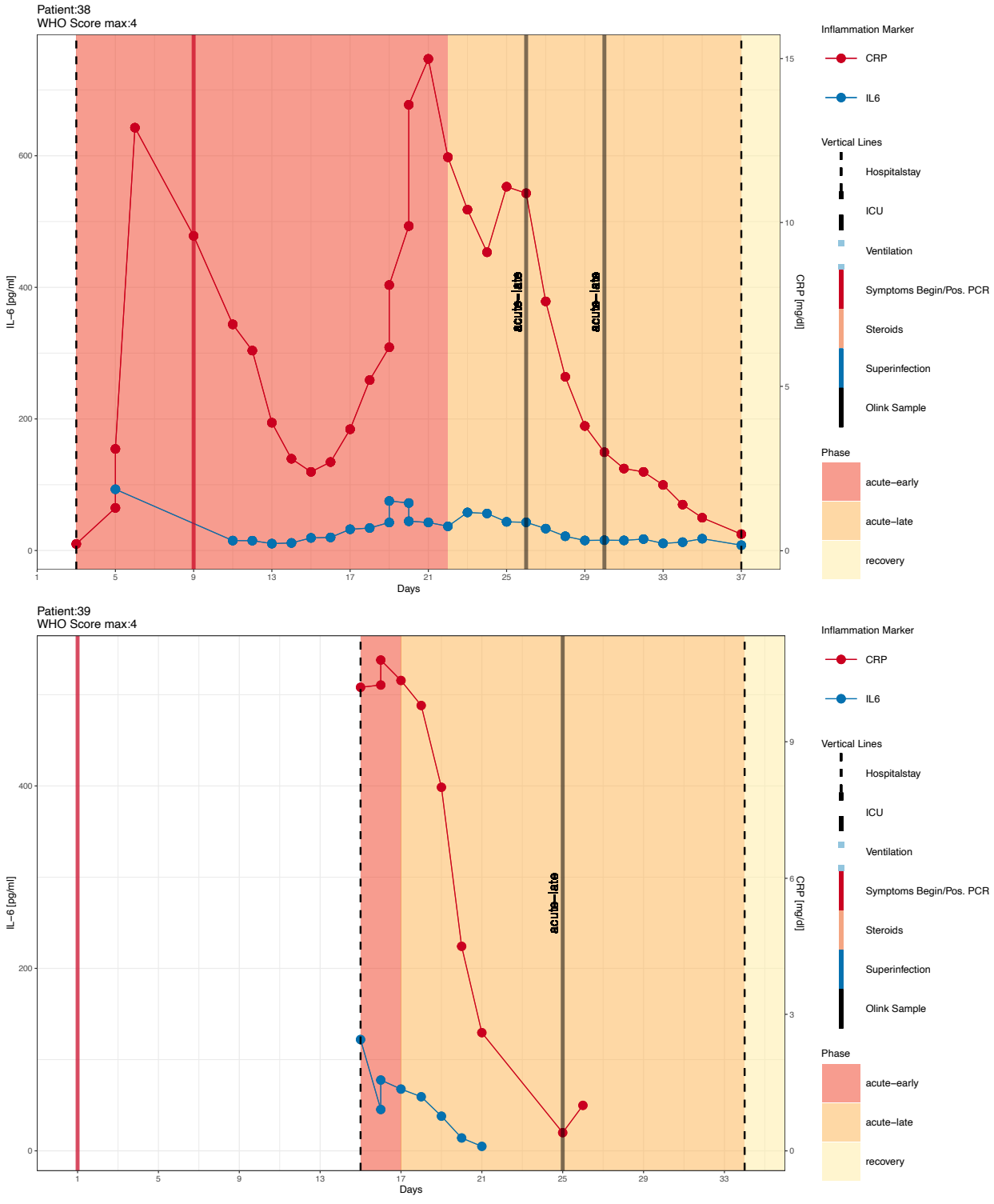

Patient:33
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

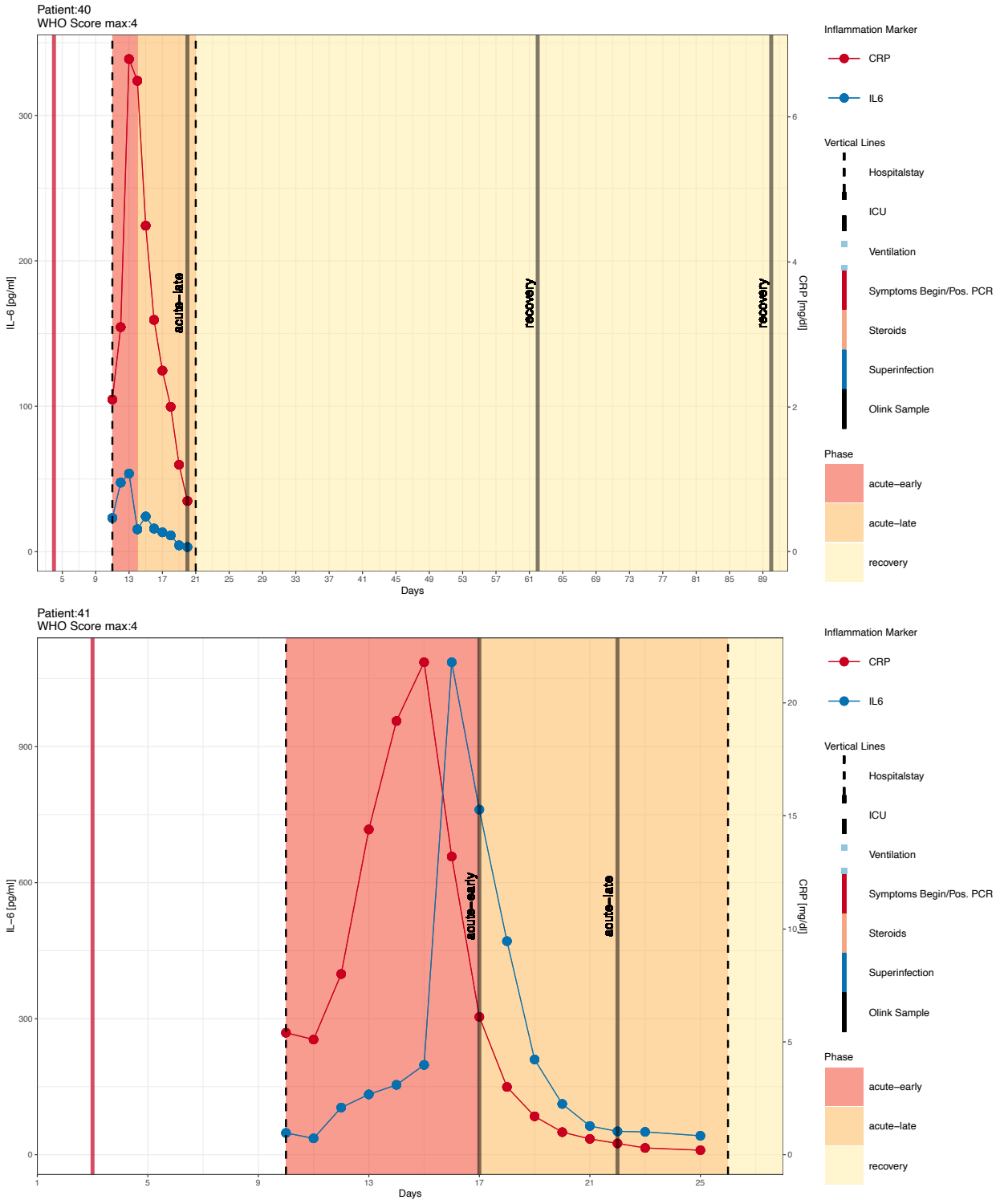

Patient:34
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

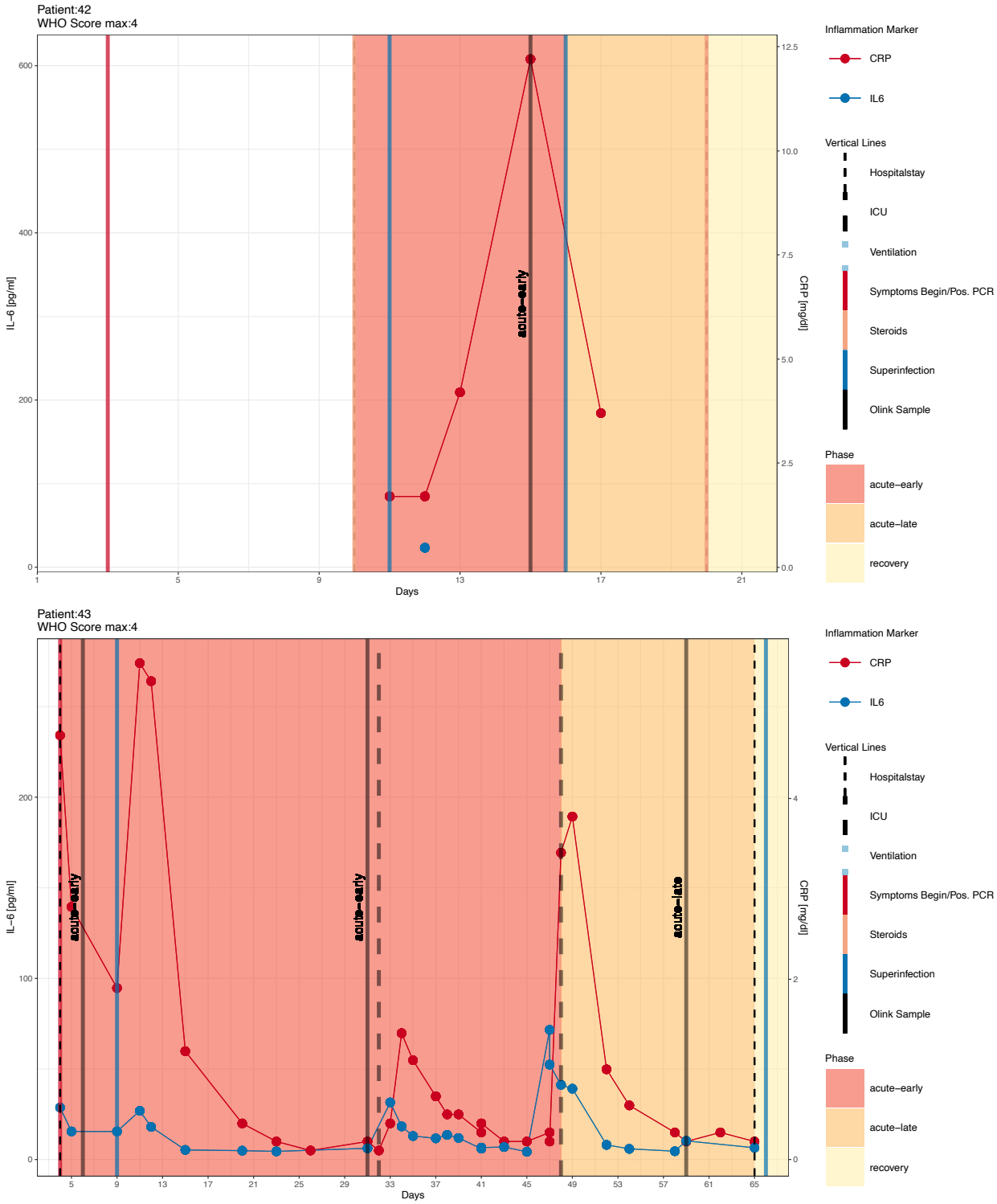

Patient:35
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:36
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

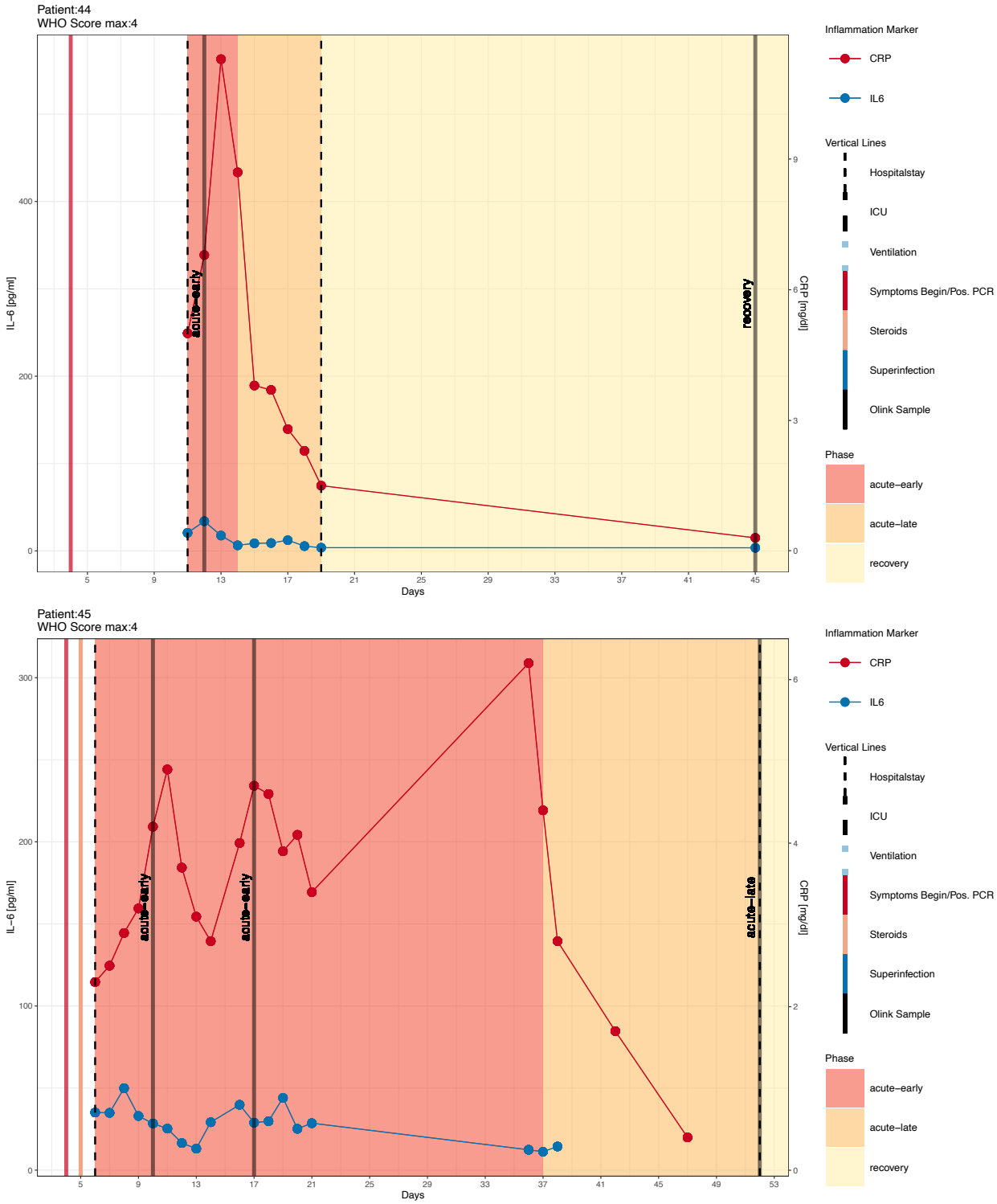

Patient:37
WHO Score max:3
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

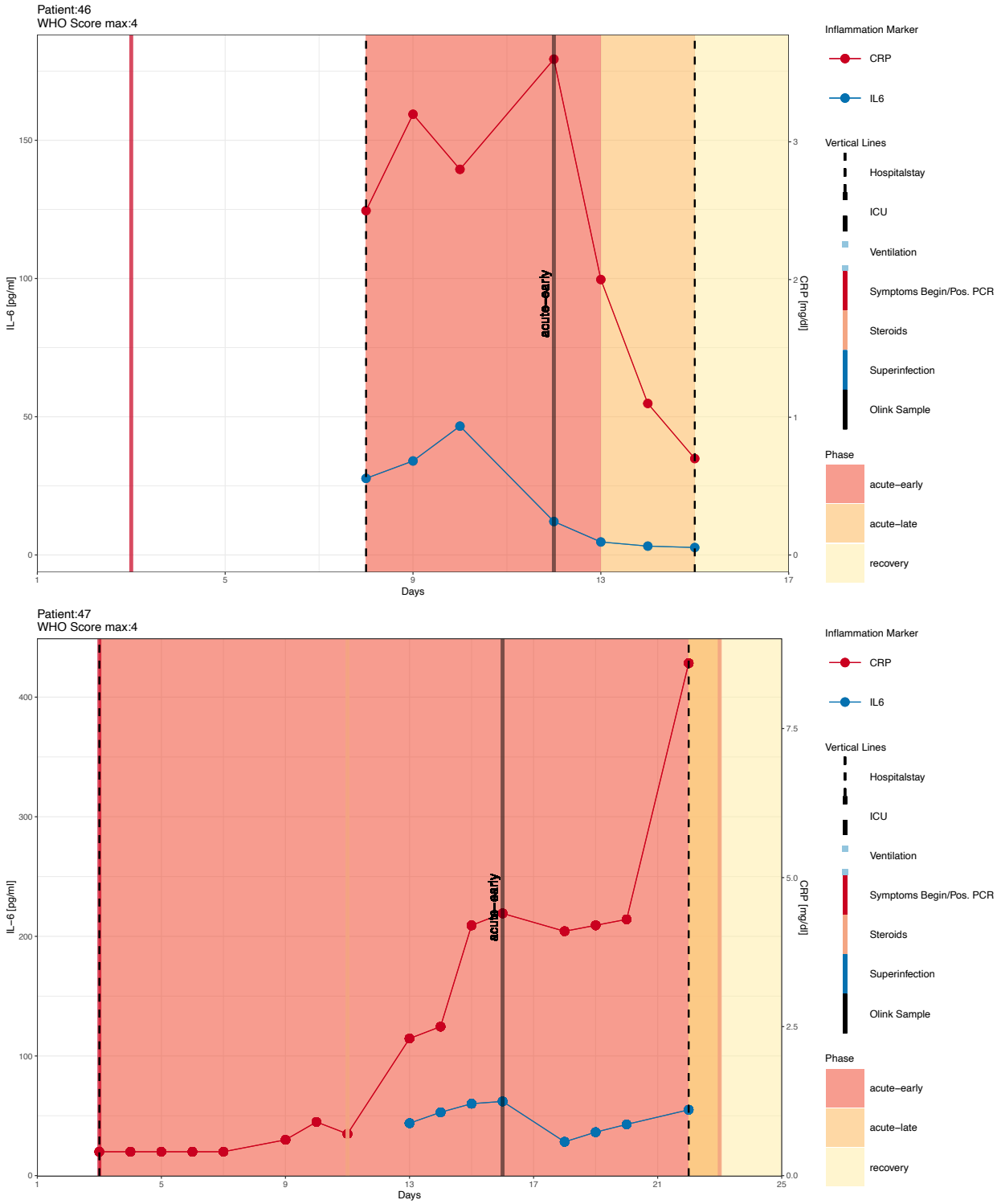
Covid-positive: max WHO score =4 (n= 10)



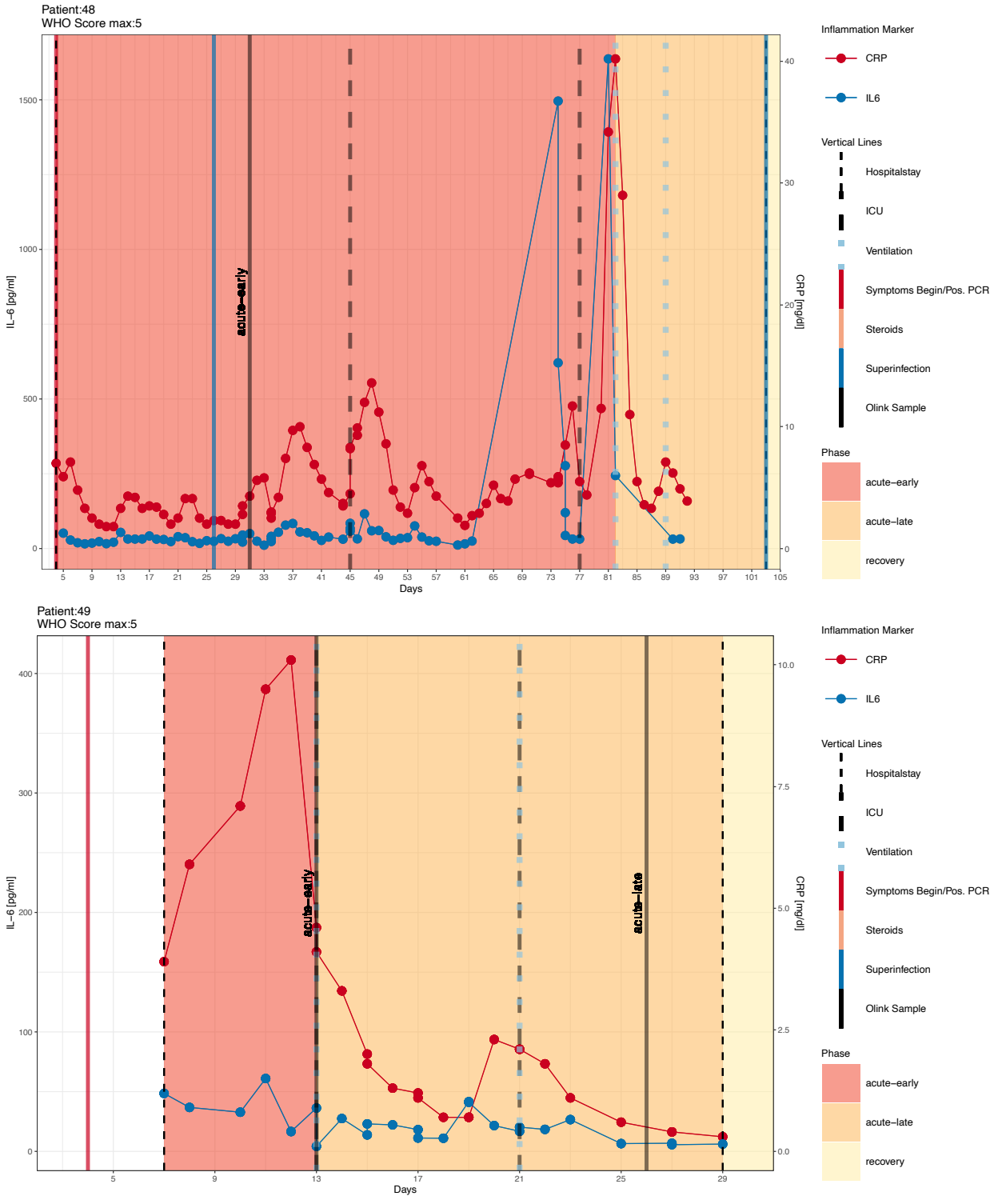

Patient:40
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
recovery
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:41
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:42
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Patient:43
WHO Score max:4
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

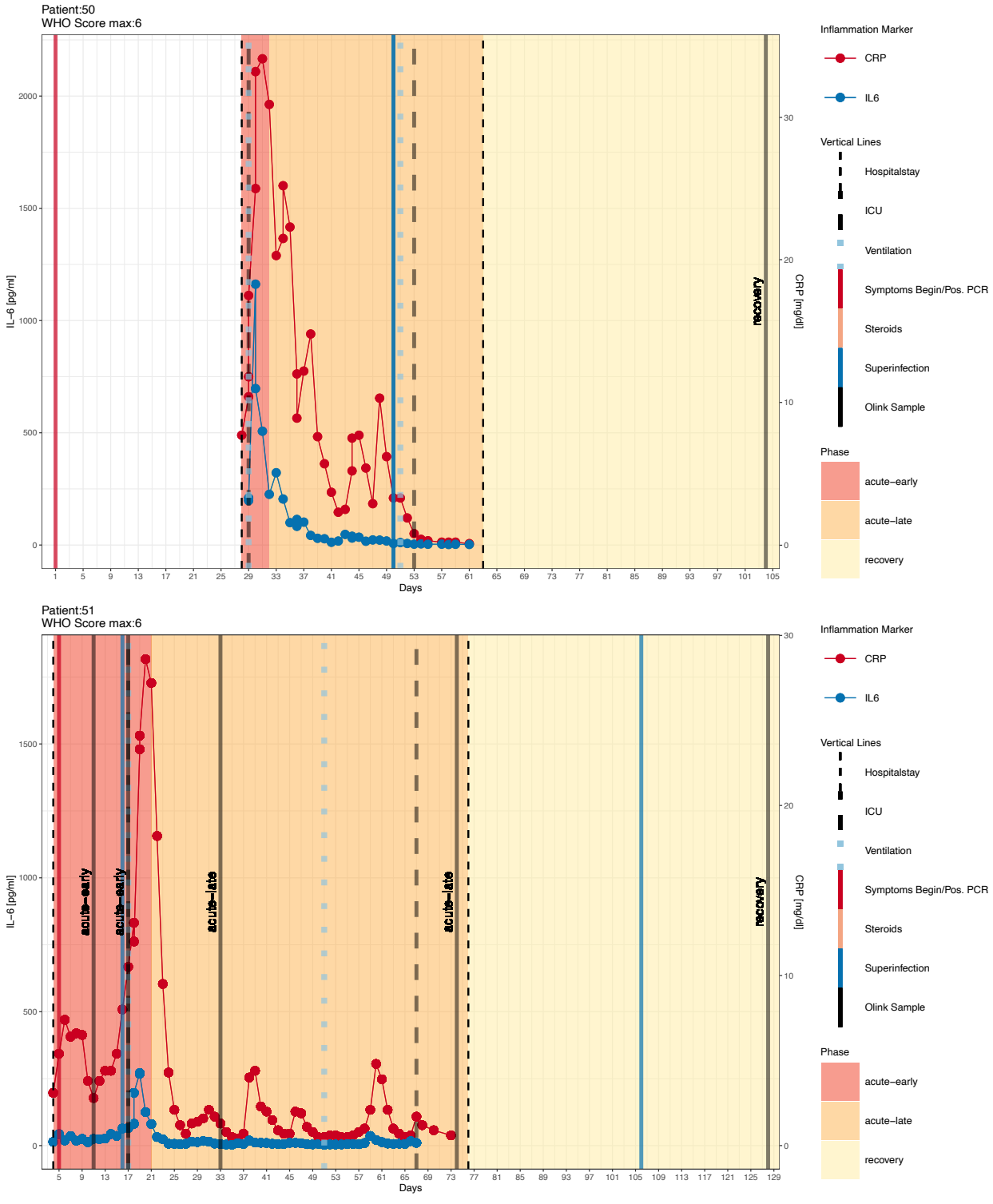

Patient:44
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
recovery
Patient:45
WHO Score max:4
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

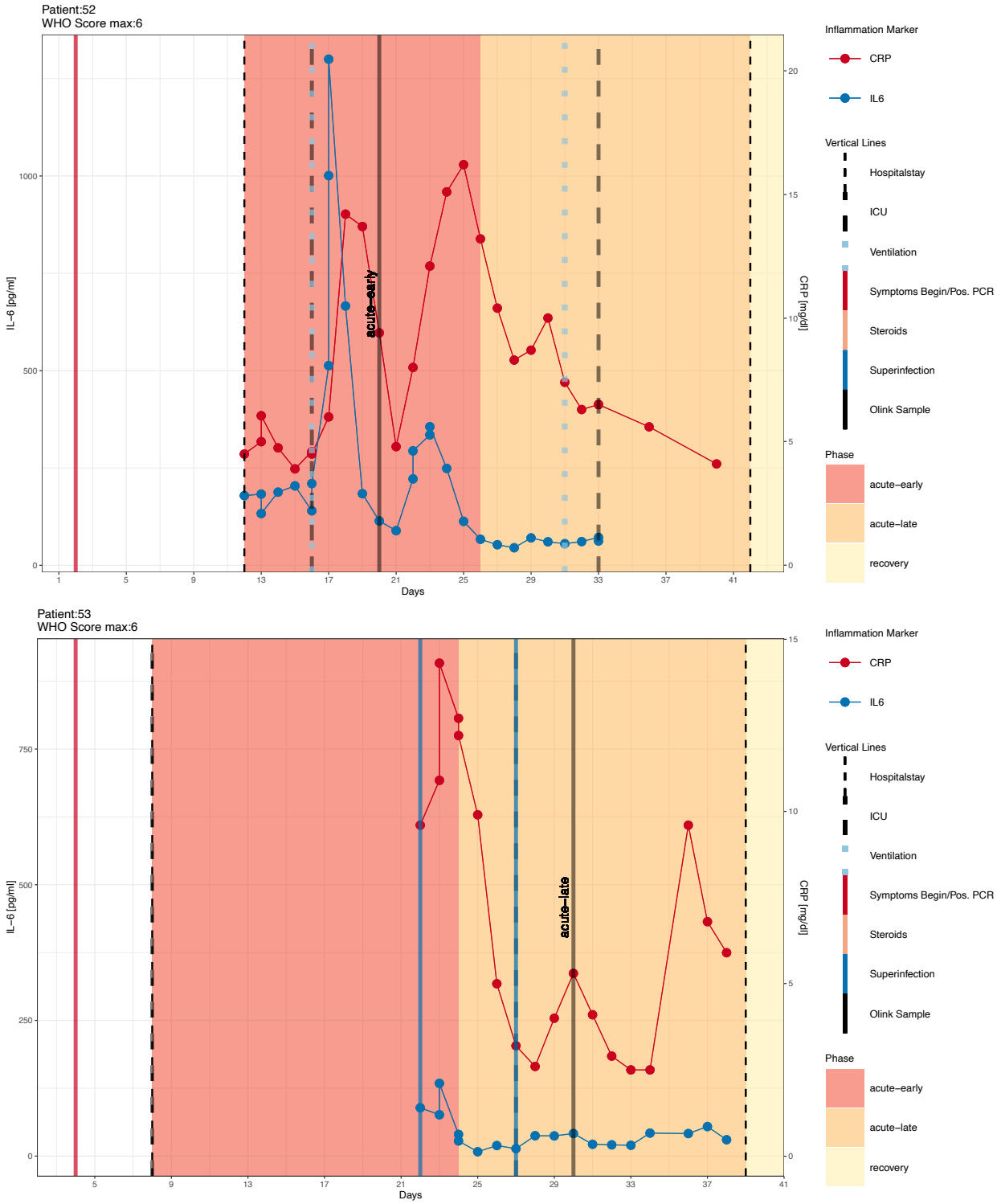

Patient:46
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:47
WHO Score max:4
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

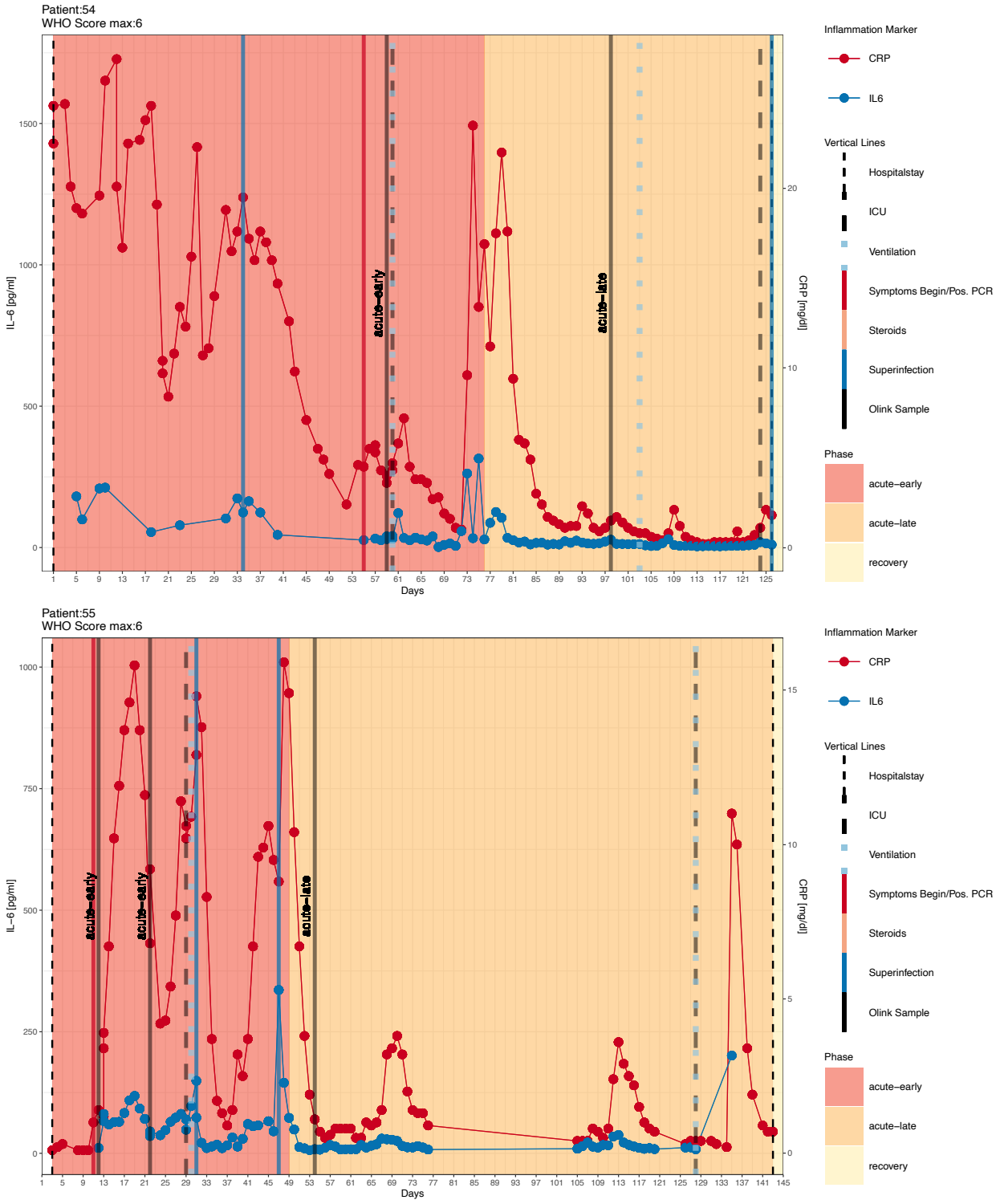
Covid-positive: max WHO score =5 (n= 2)

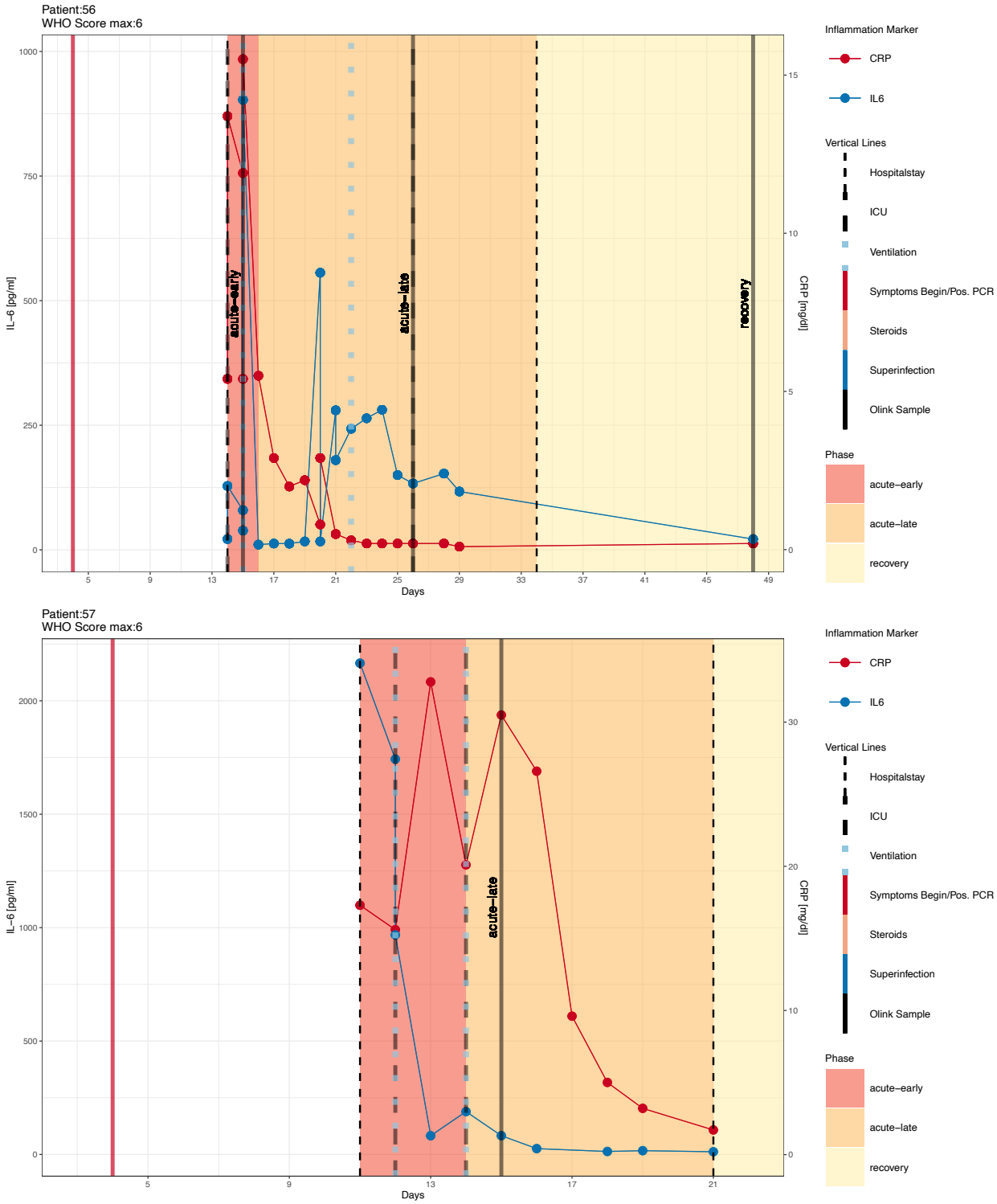


Covid-positive: max WHO score =6 (n= 8)



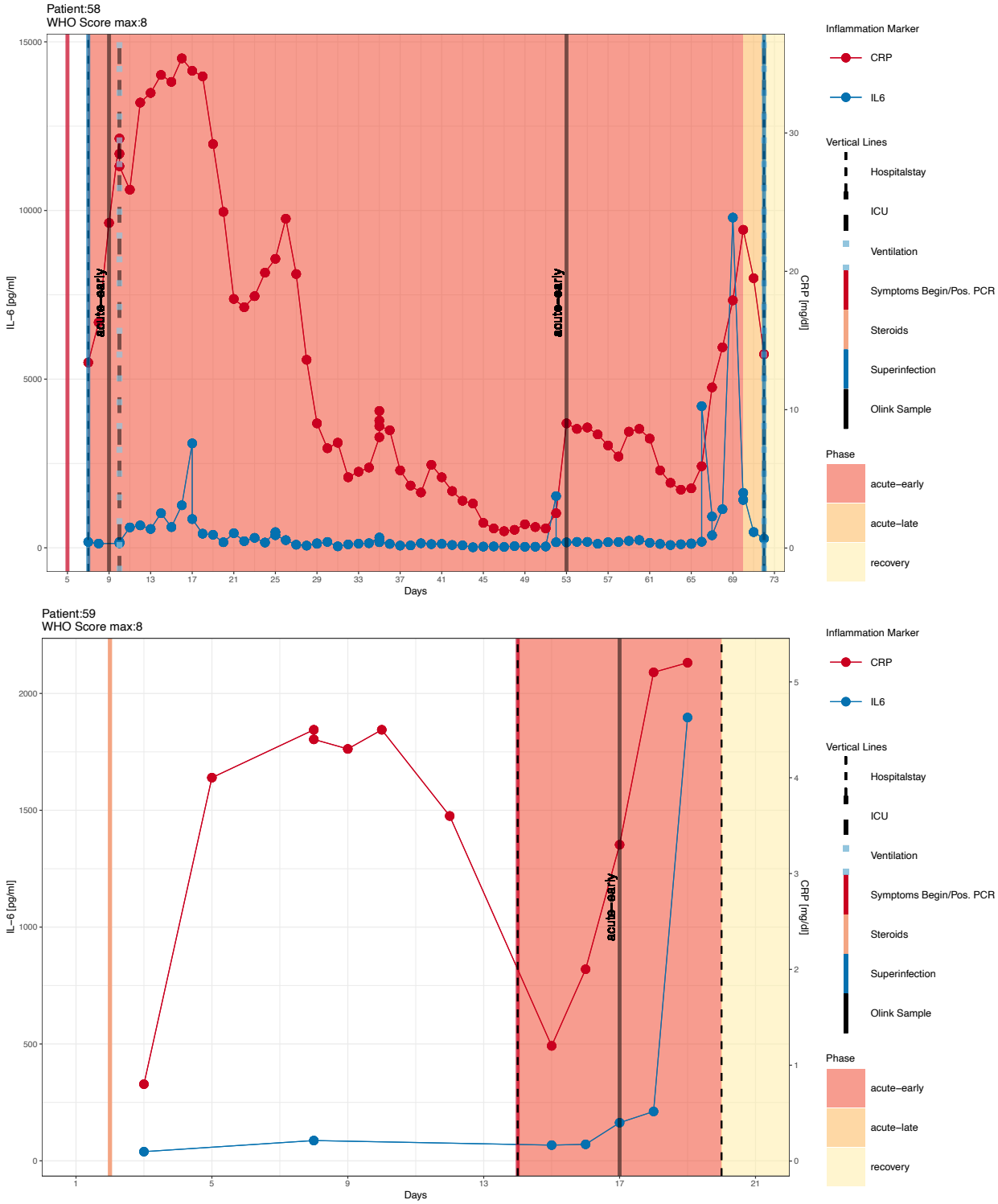

Patient:52
WHO Score max:6
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:53
WHO Score max:6

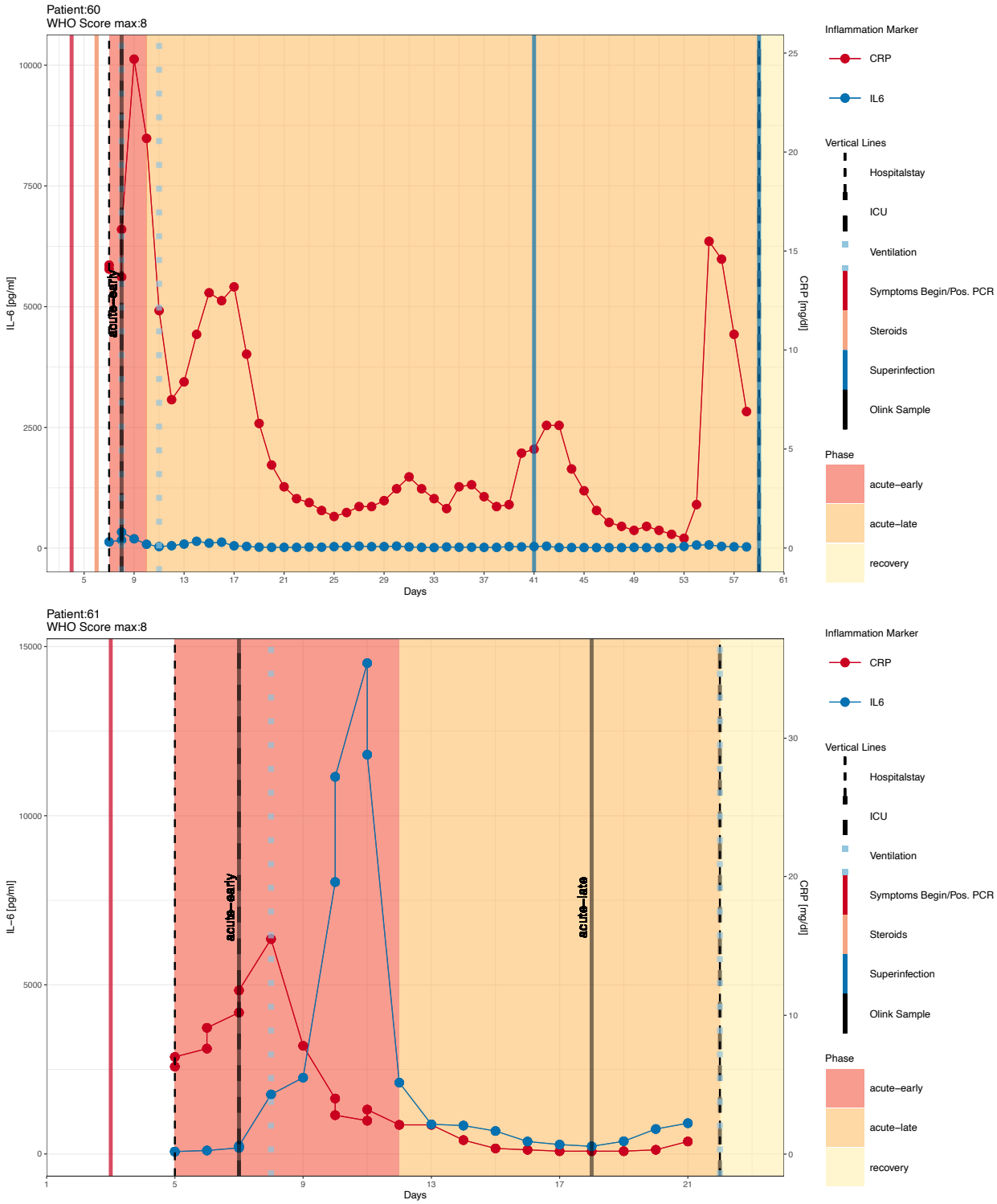

Patient:54
WHO Score max:6
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:55
WHO Score max:6
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

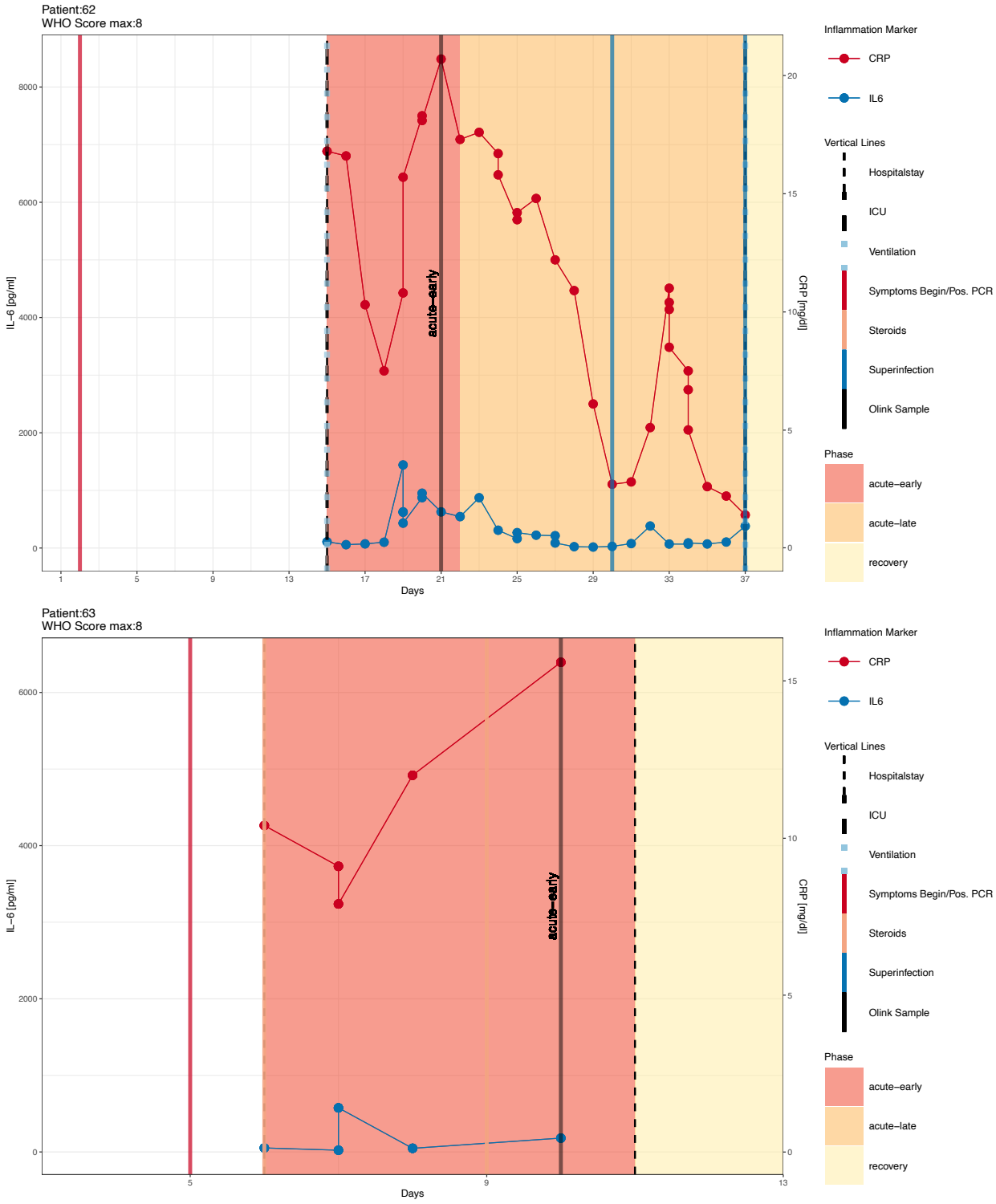

Patient:56
WHO Score max:6
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:57
WHO Score max:6
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

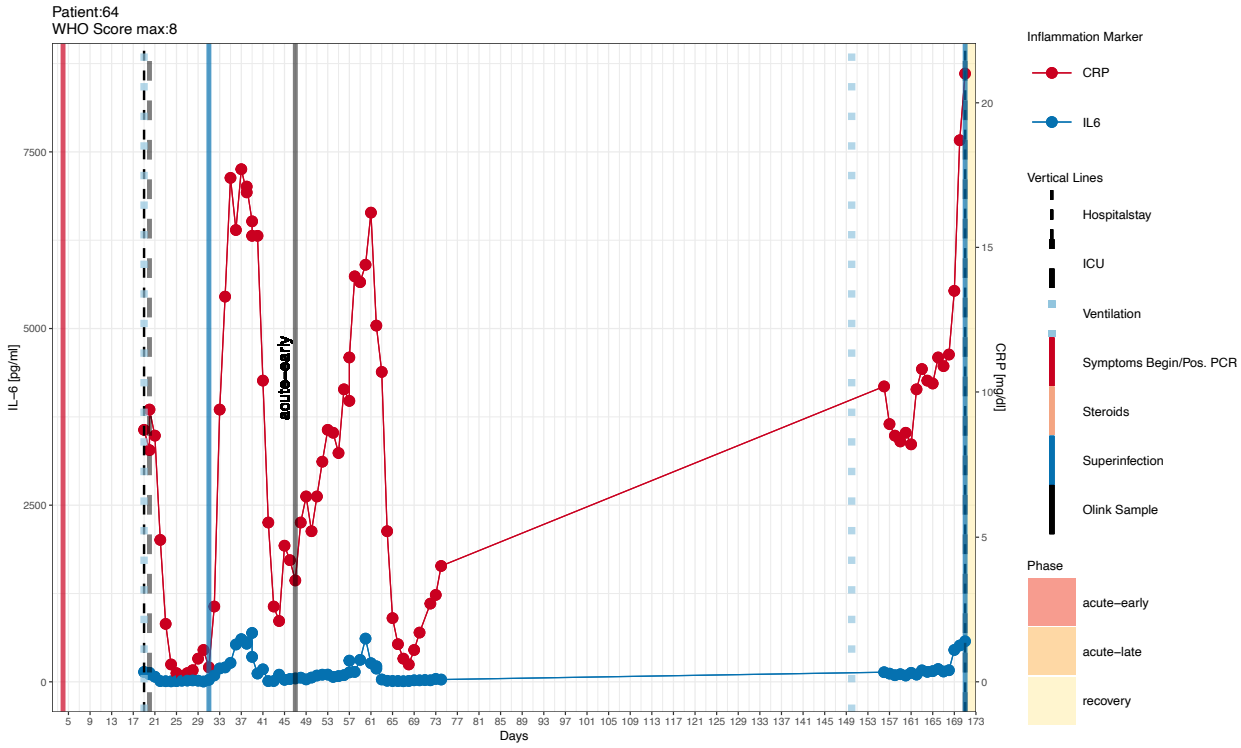
Covid-positive: max WHO score =7 (n= 0)

Covid-positive: max WHO score =8 (n= 7)

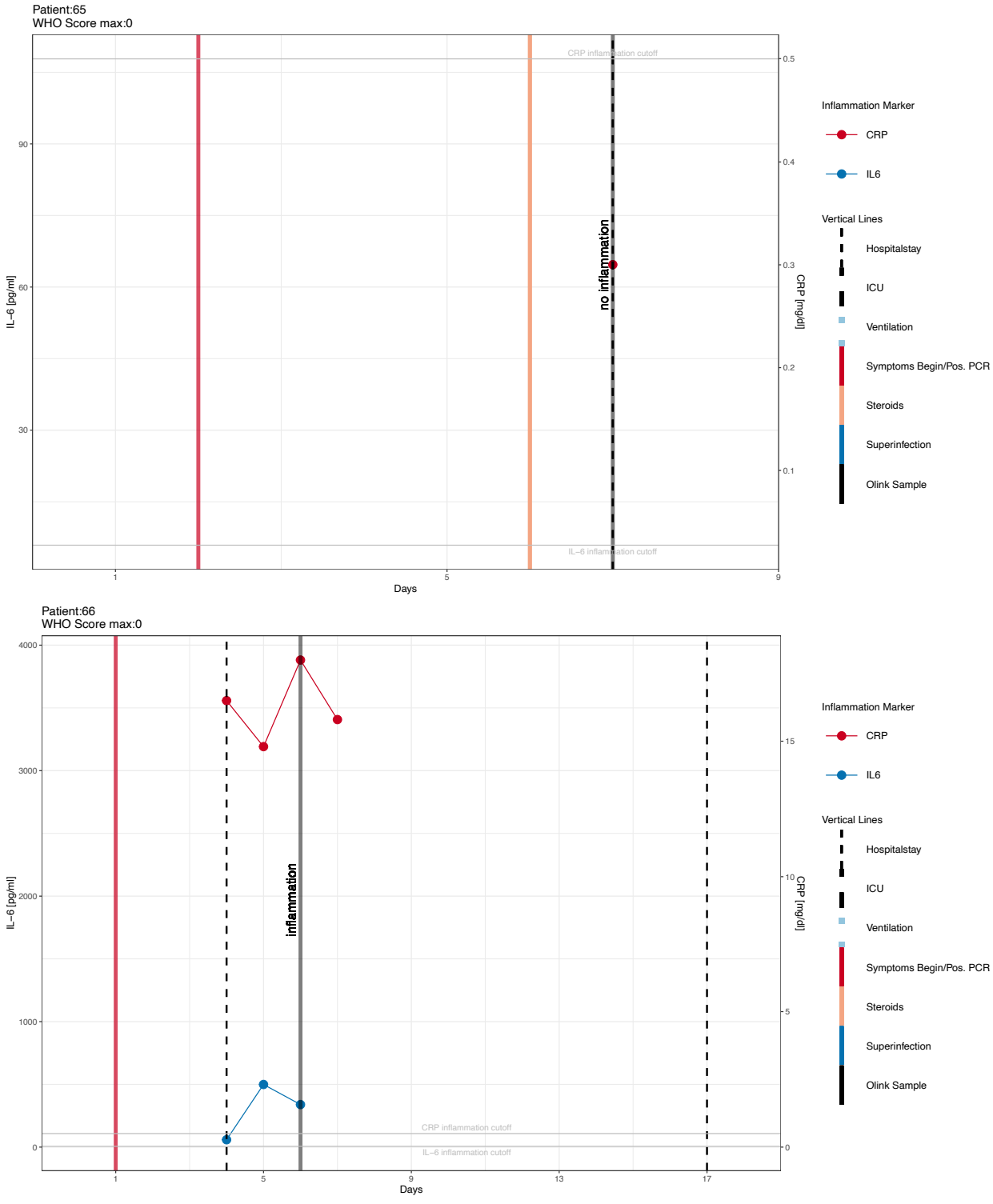


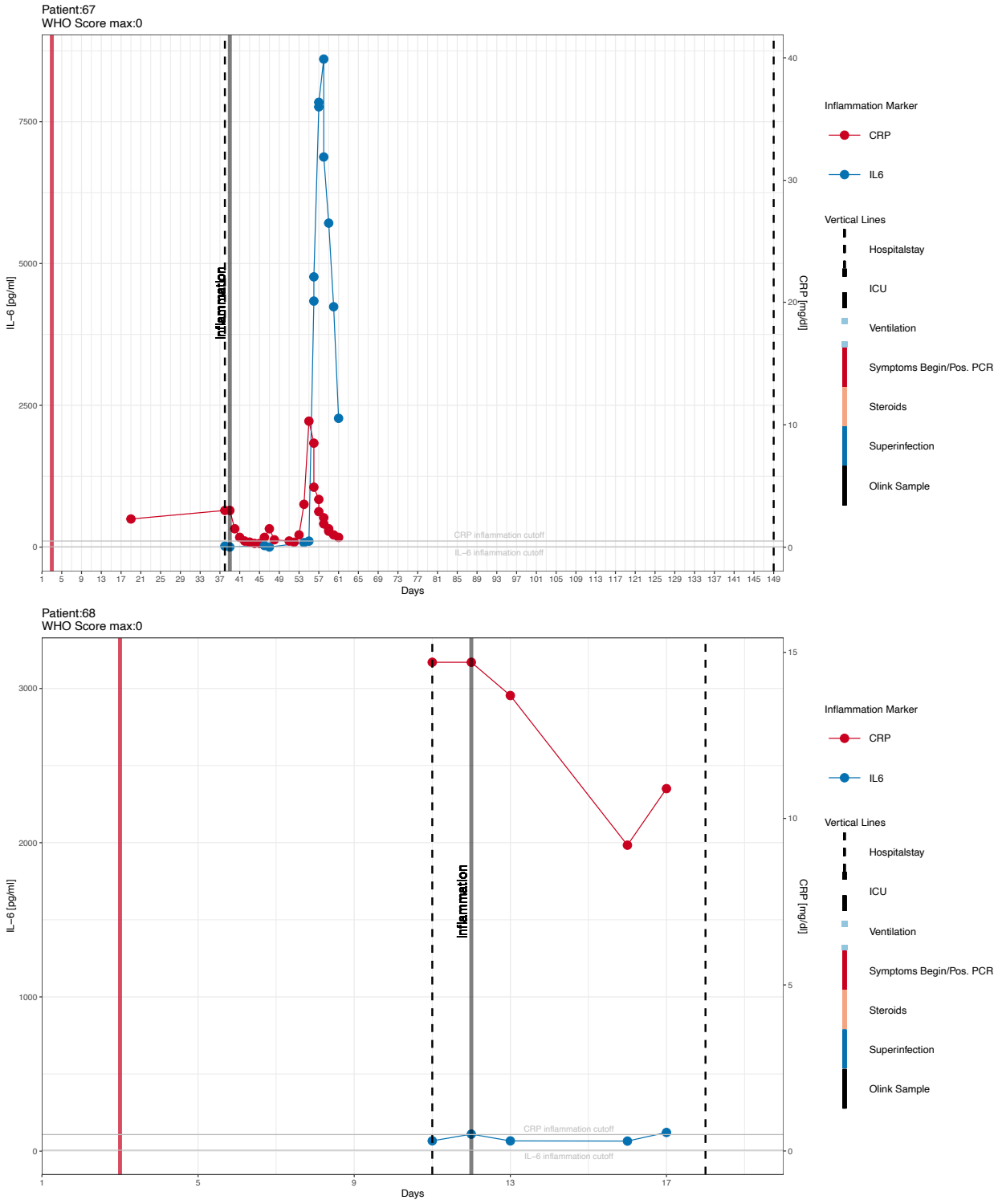

Patient:60
WHO Score max:8
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:61
WHO Score max:8
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

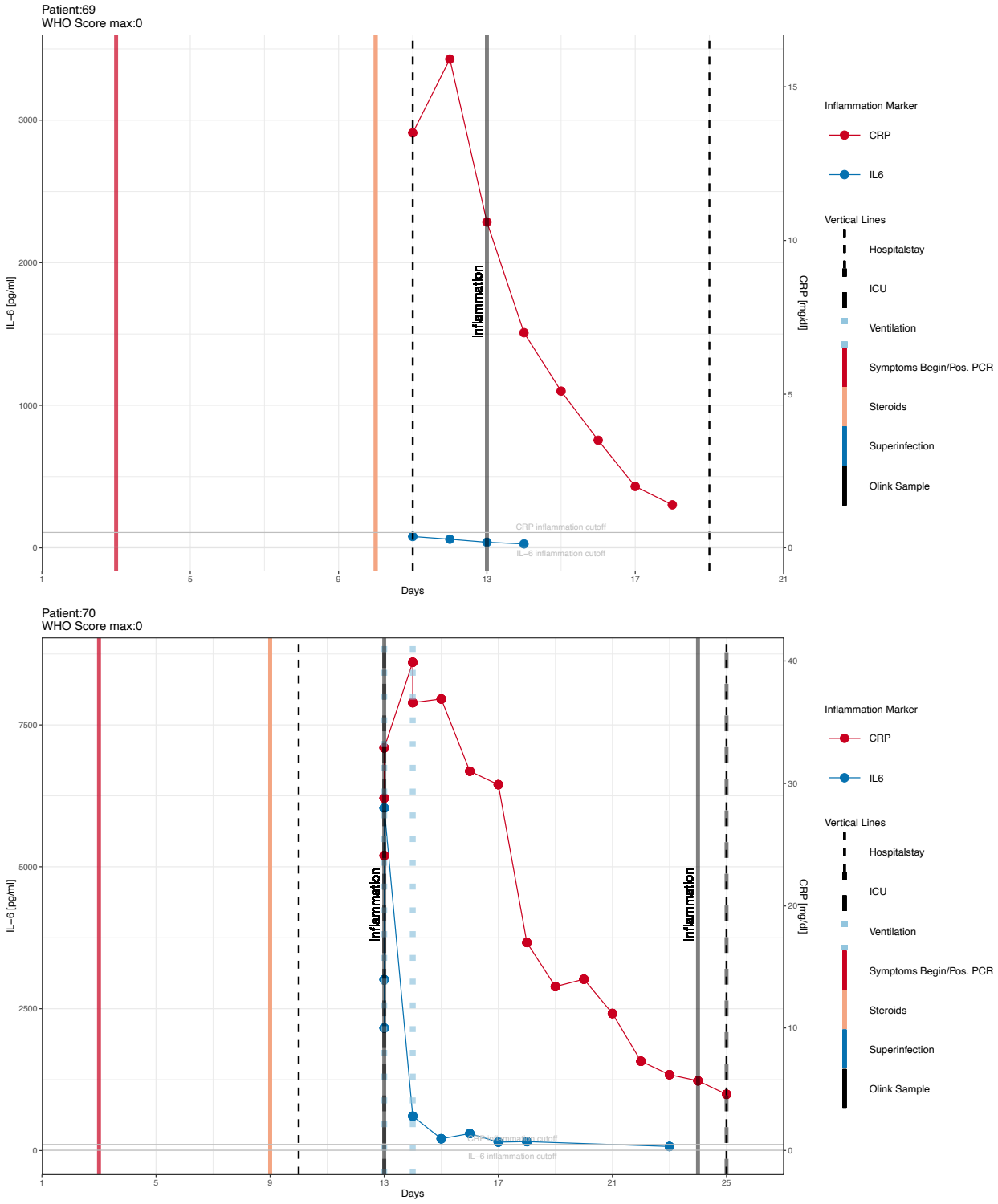

Patient:62
WHO Score max:8
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:63
WHO Score max:8
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

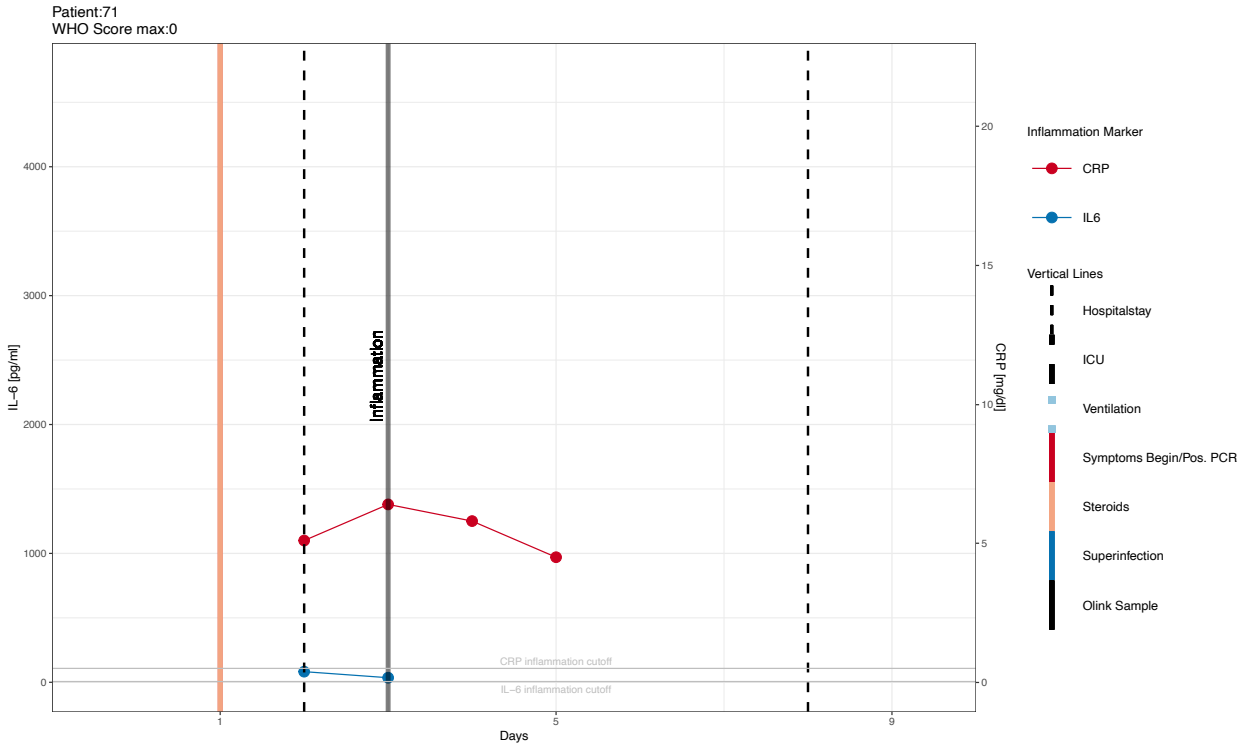

Patient:64
WHO Score max:8
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Phase
acute−early
acute−late
recovery

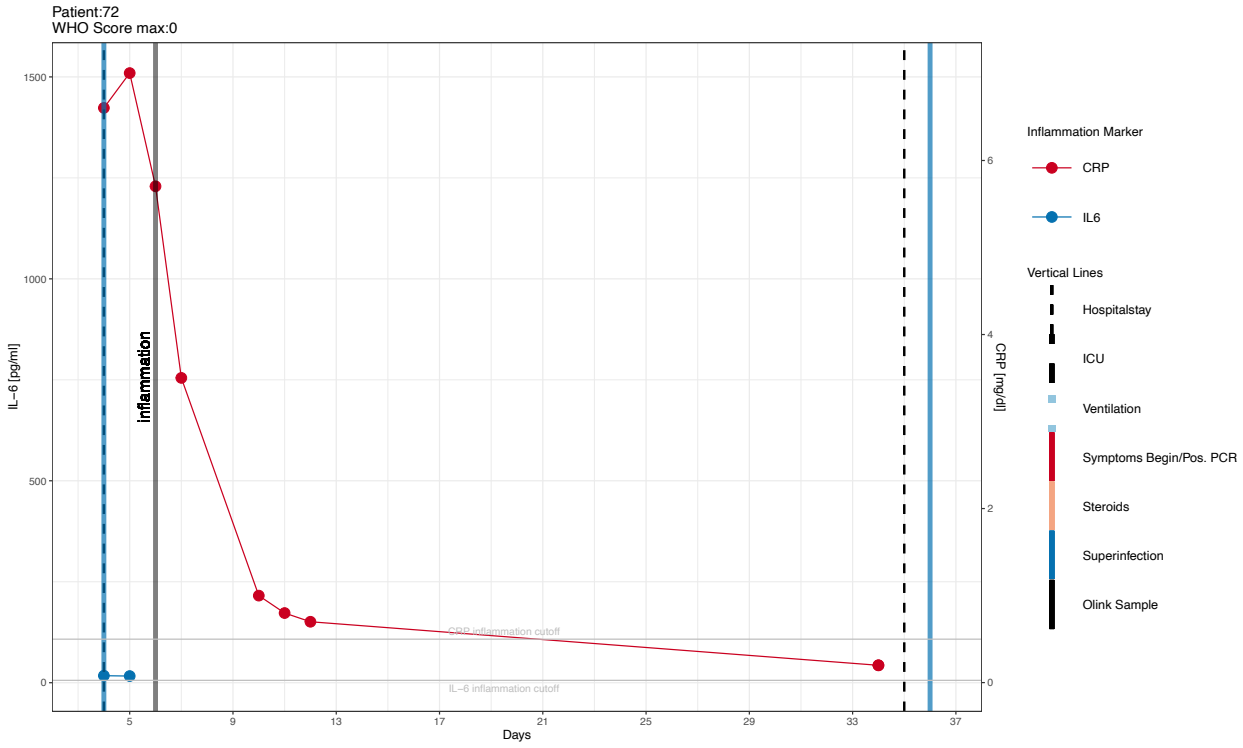
Covid-negative (n= 19)

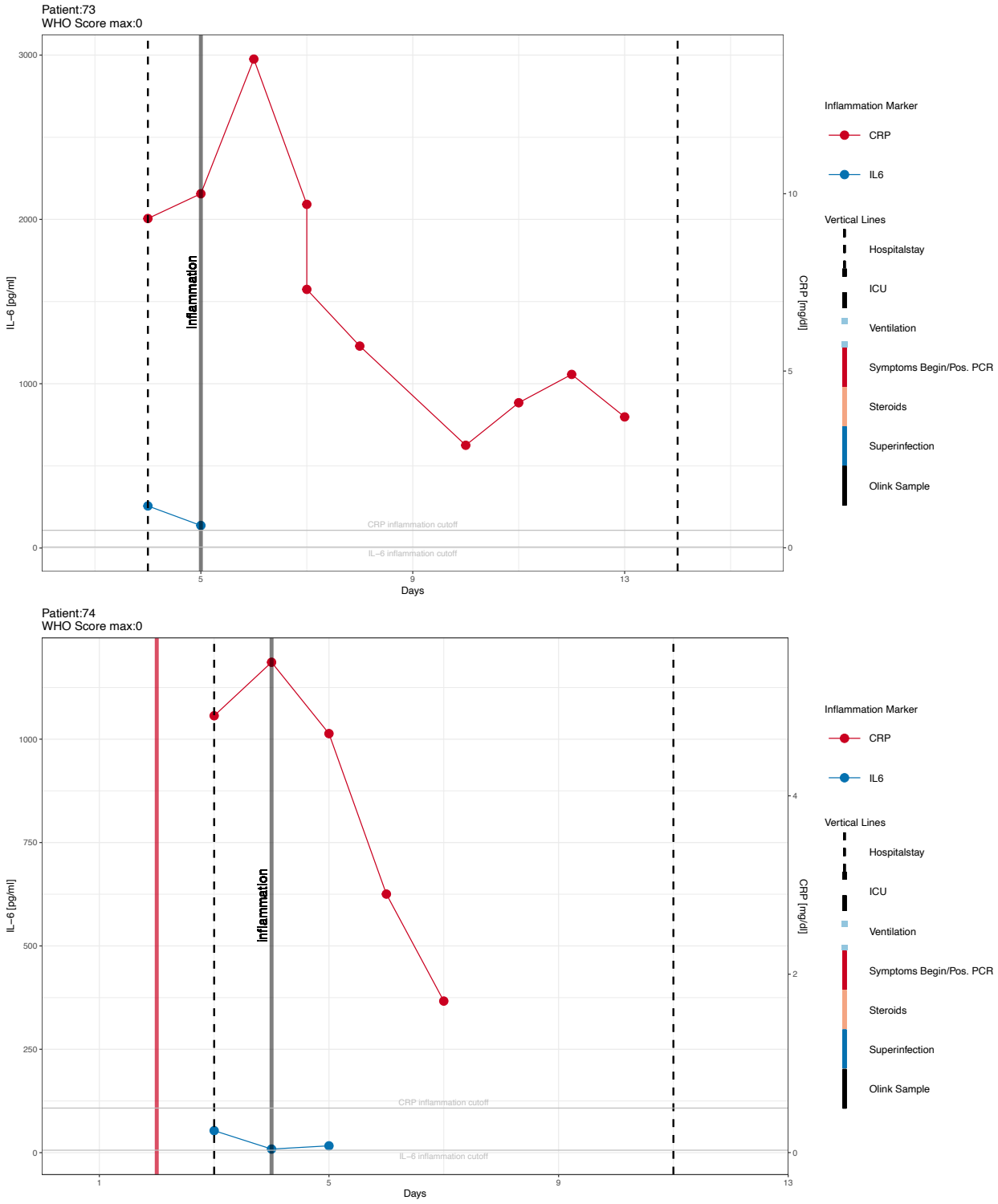


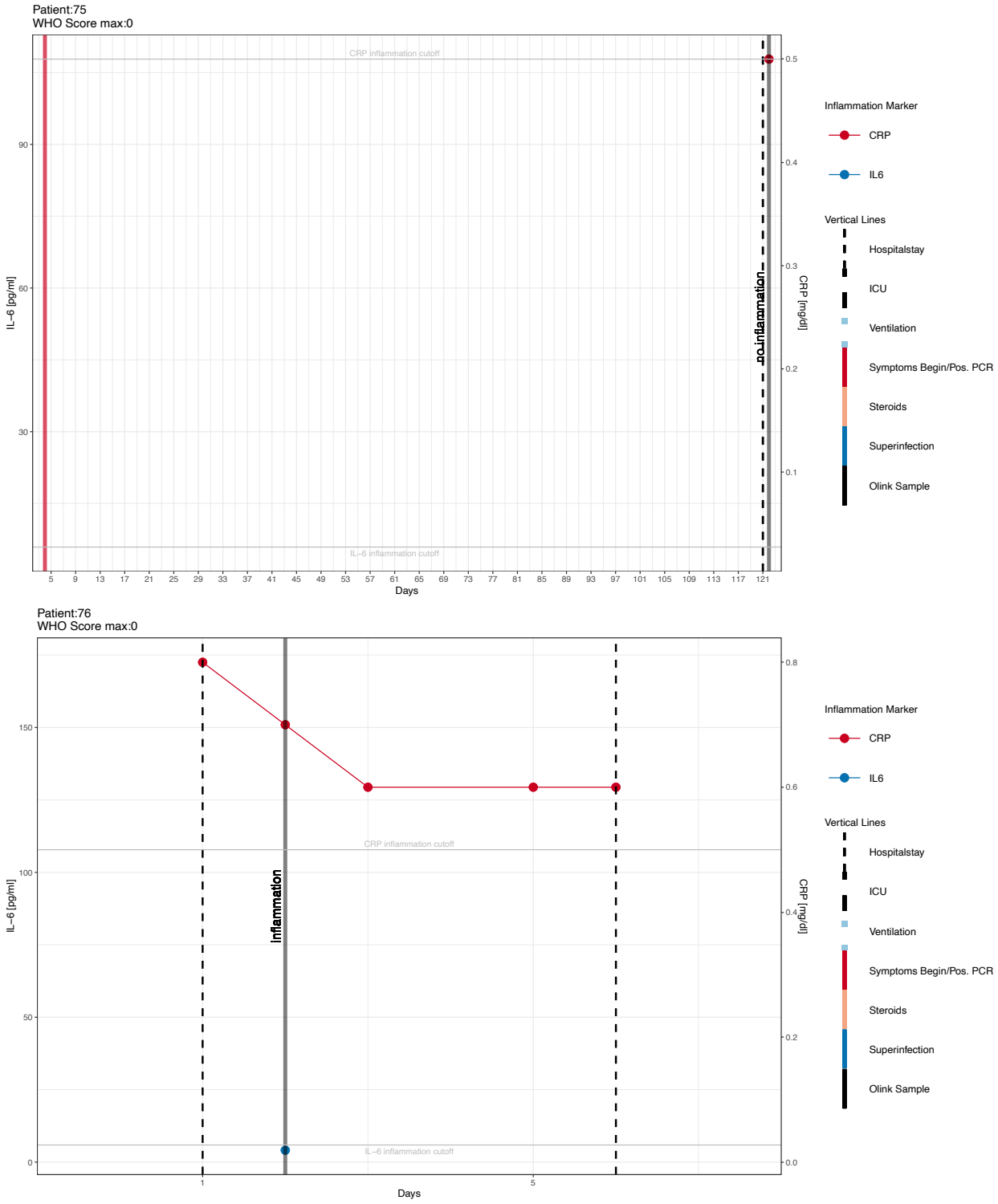

Patient:67
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:68
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

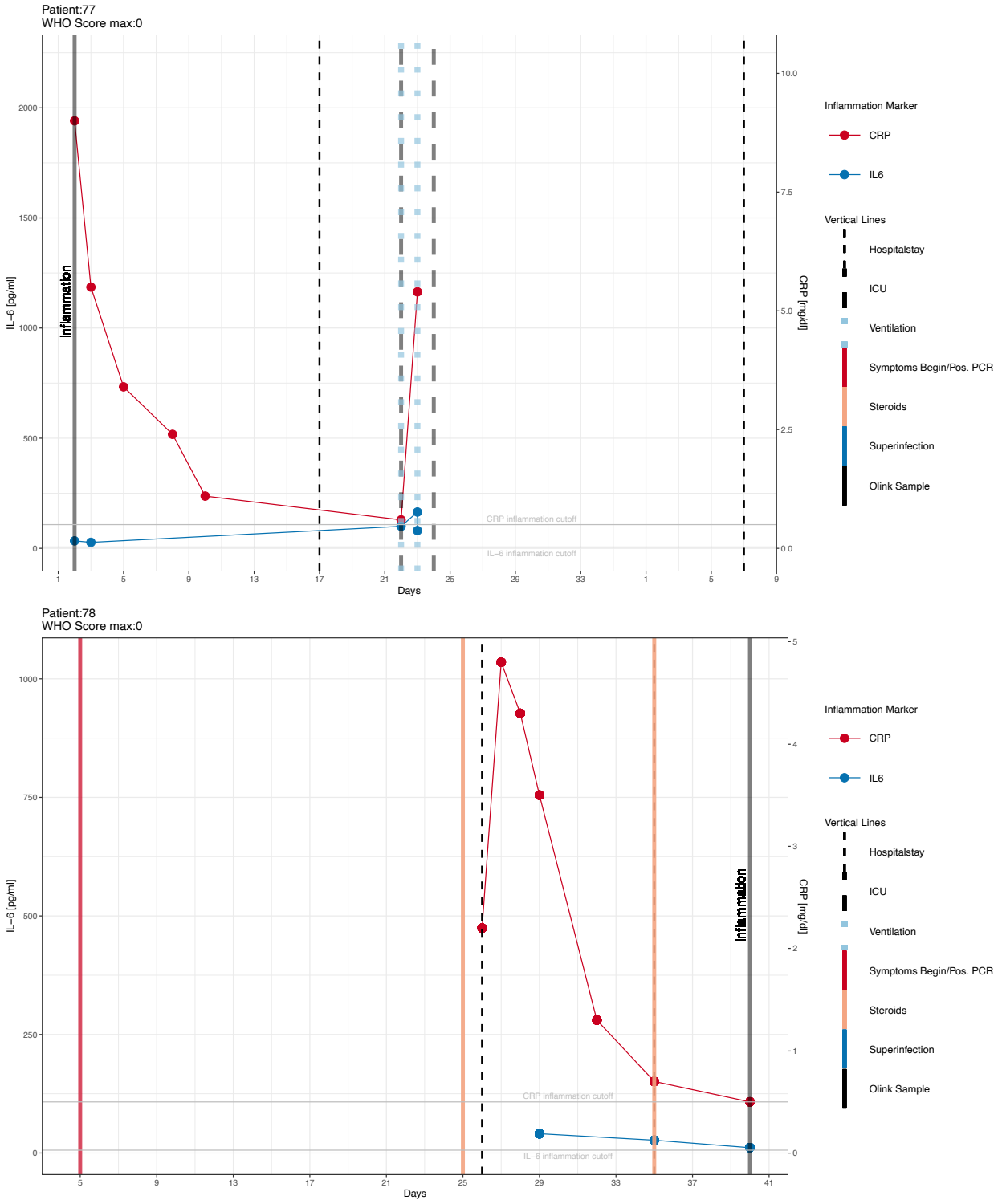

Patient:69
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:70
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
Inflammation
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

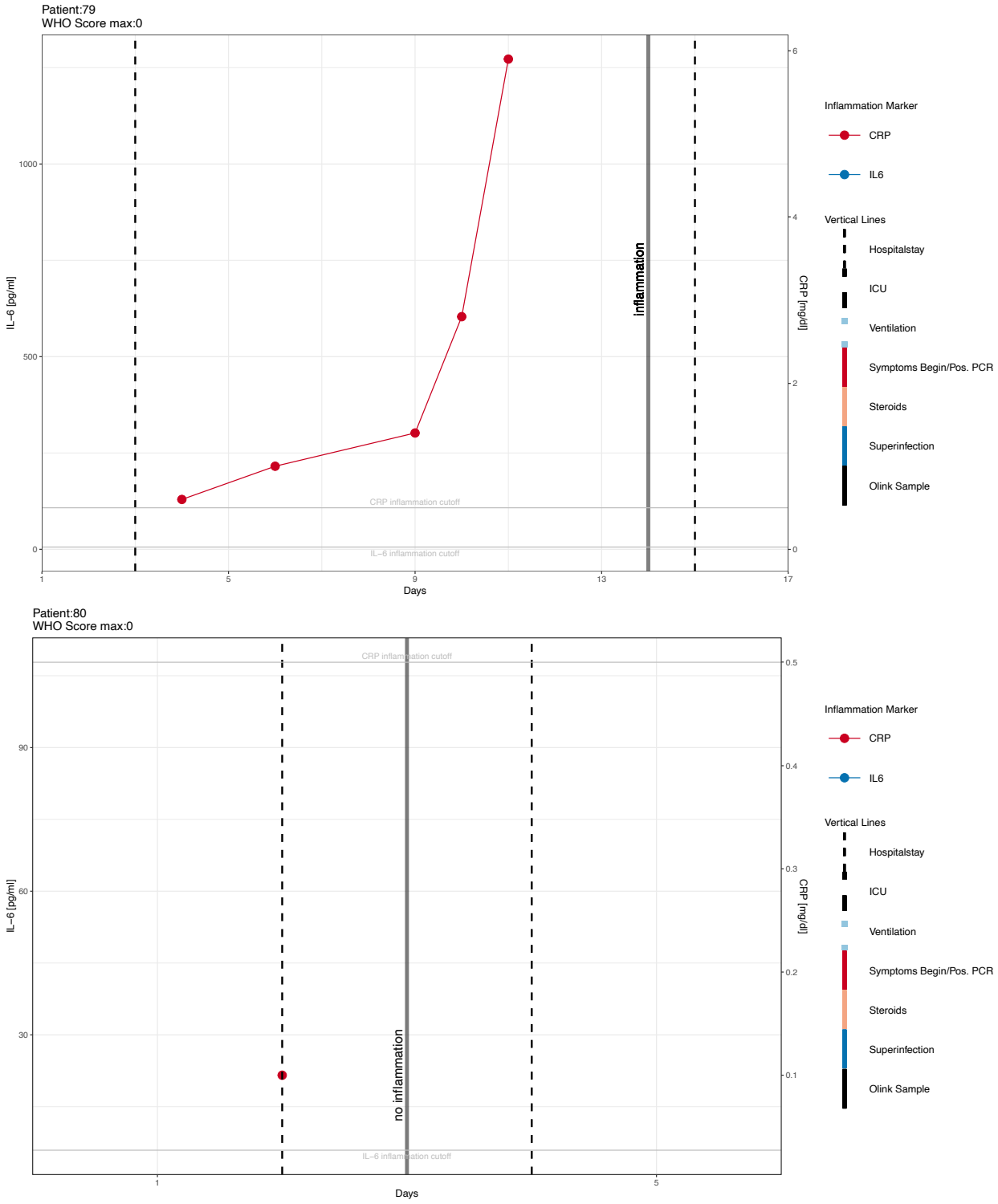

Patient:71
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

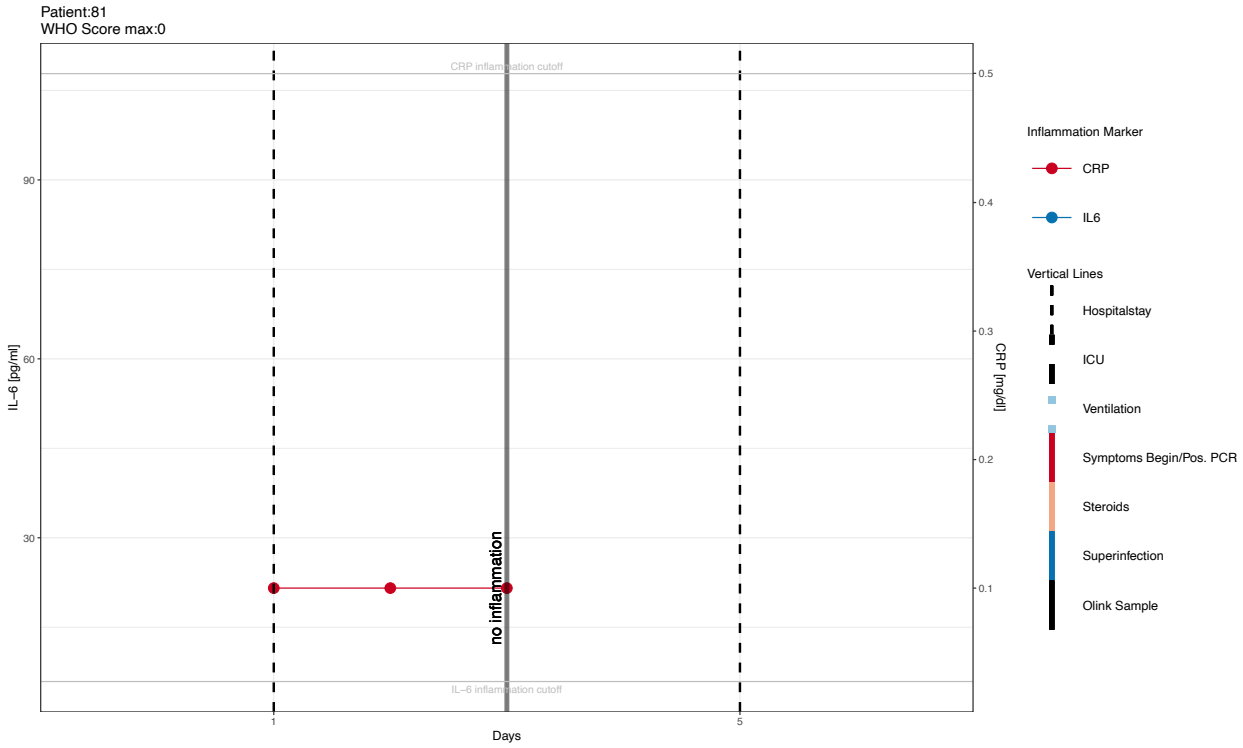

Patient:72
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

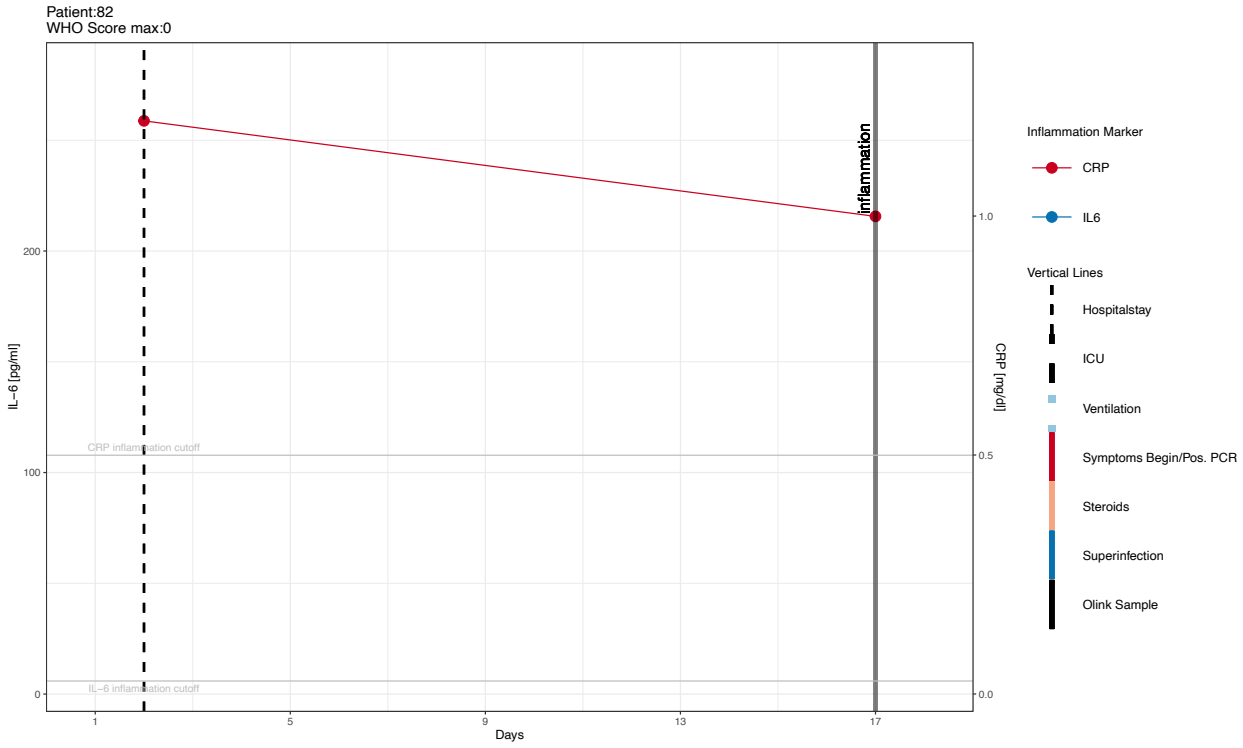

Patient:73
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:74
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

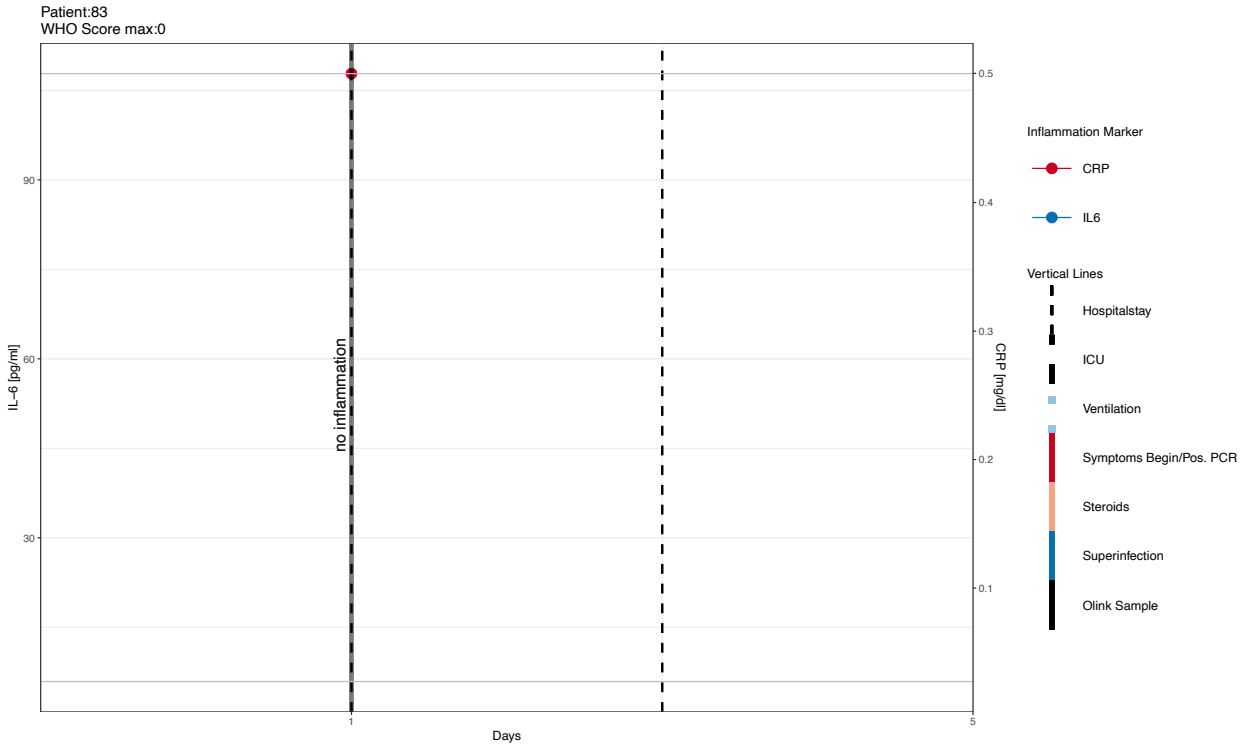

Patient:75
WHO Score max:0
CRP inflammation cutoff
IL−6 inflammation cutoff
no inflammation
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:76
WHO Score max:0
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

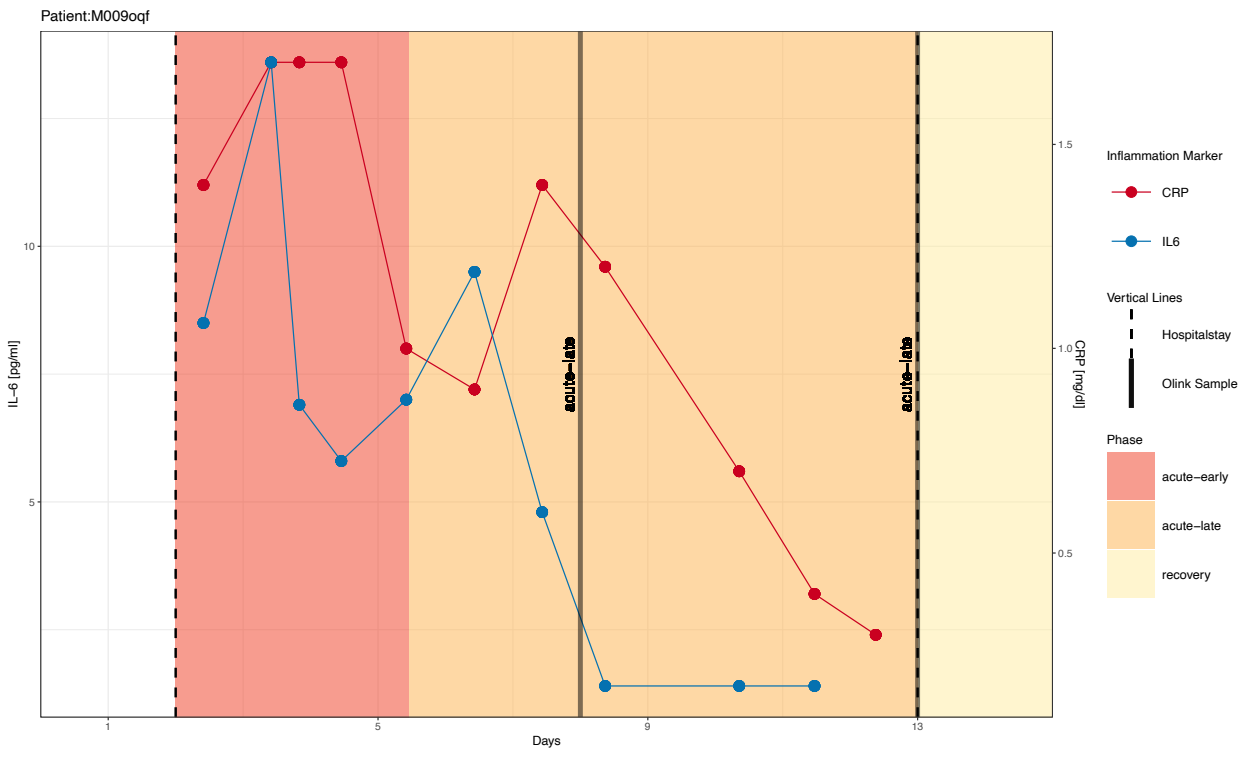

Patient:77
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:78
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

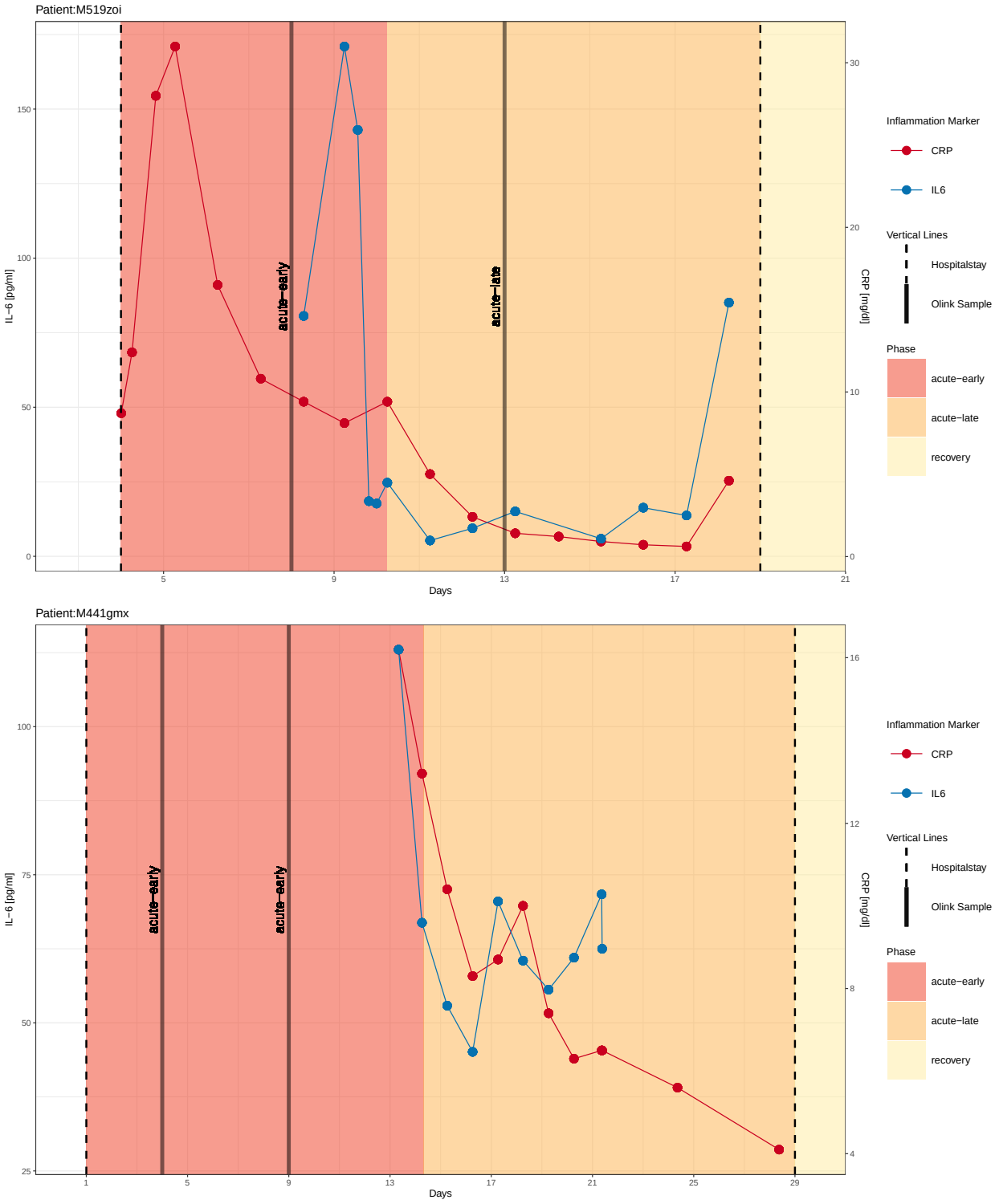

Patient:79
WHO Score max:0
IL−6 [pg/ml]
CRP [mg/dl]
Days
inflammation
CRP inflammation cutoff
IL−6 inflammation cutoff
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample
Patient:80
WHO Score max:0
no inflammation

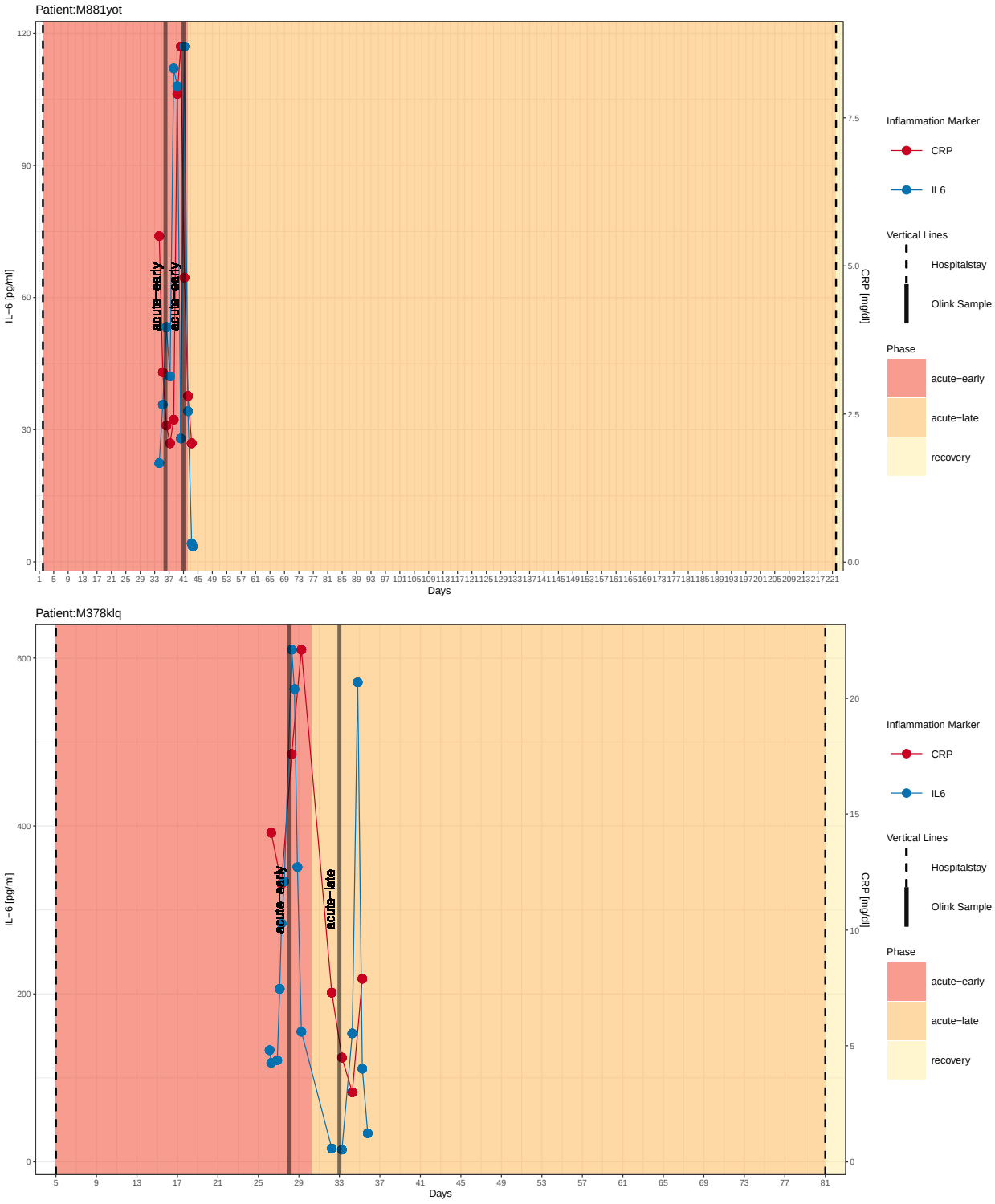

Patient:81
WHO Score max:0
CRP inflammation cutoff
IL−6 inflammation cutoff
no inflammation
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

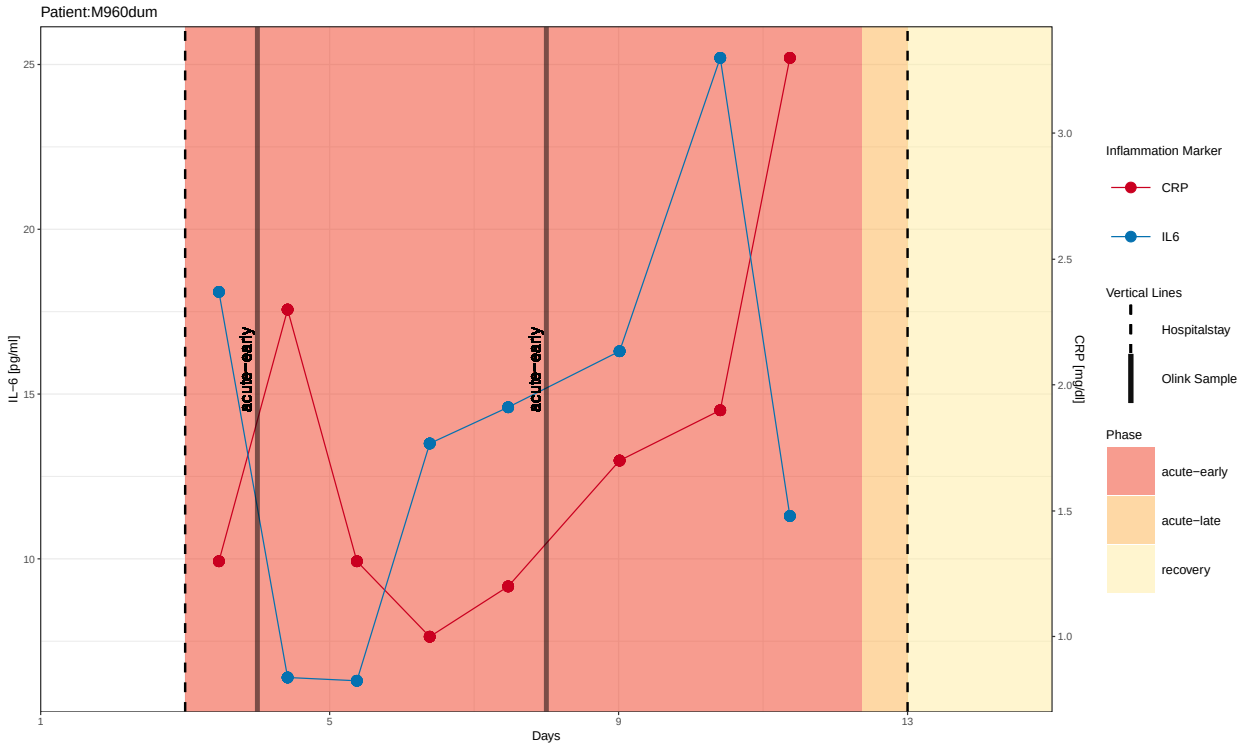

Patient:82
WHO Score max:0
CRP inflammation cutoff
IL−6 inflammation cutoff
inflammation
IL−6 [pg/ml]
CRP [mg/dl]
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

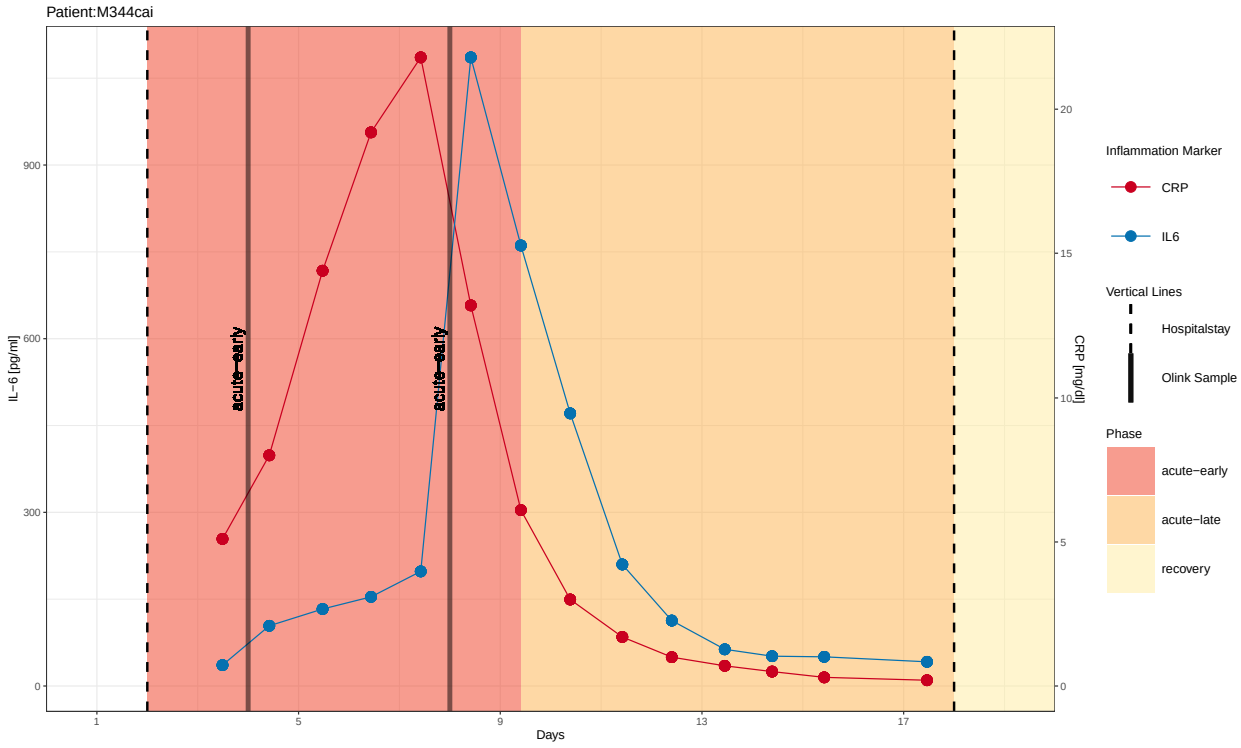

Patient:83
WHO Score max:0
IL−6 [pg/ml]
90
60
30
CRP [mg/dl]
0.5
0.4
0.3
0.2
0.1
no inflammation
1
5
Days
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
ICU
Ventilation
Symptoms Begin/Pos. PCR
Steroids
Superinfection
Olink Sample

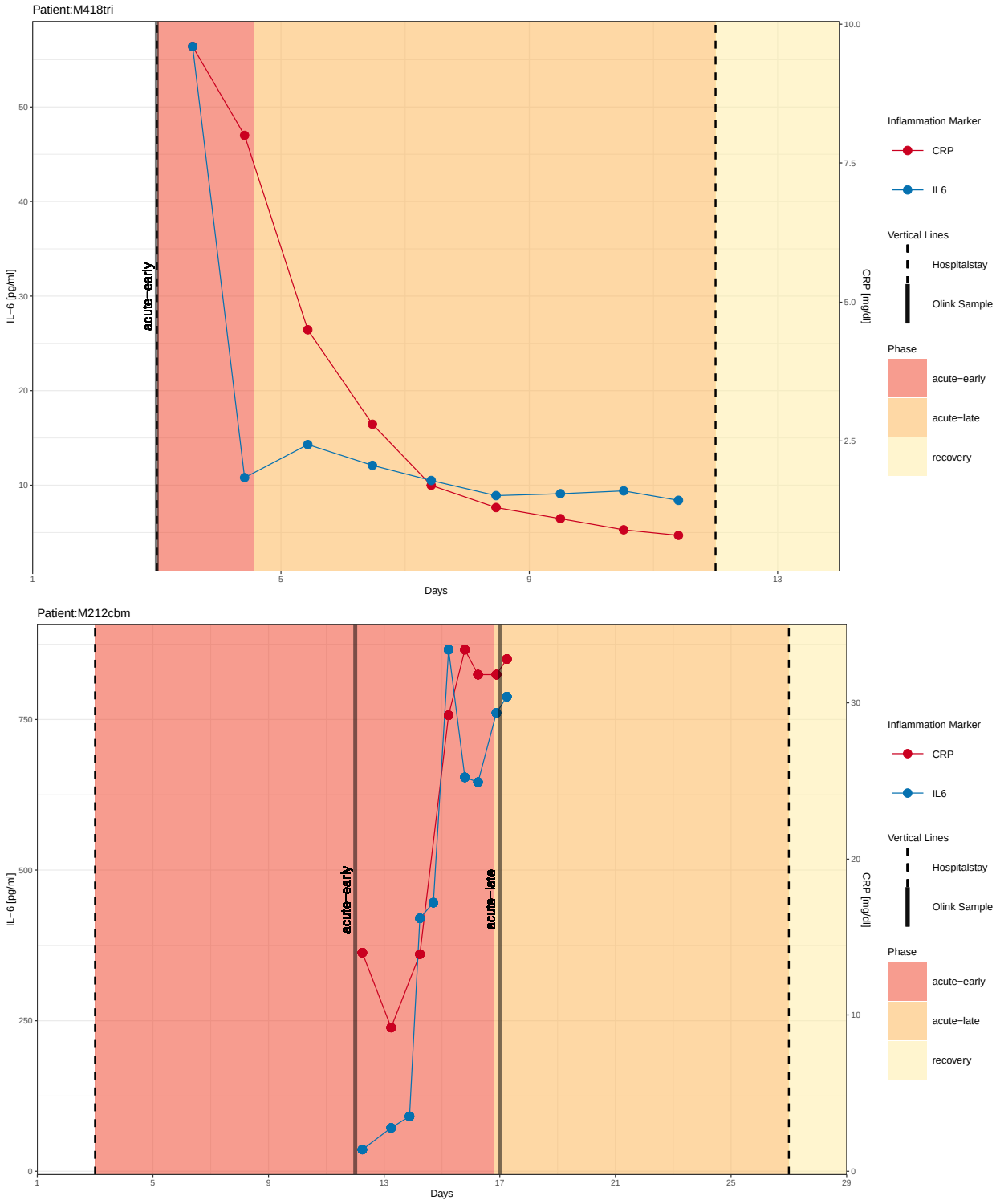

Patient:M009oqf
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

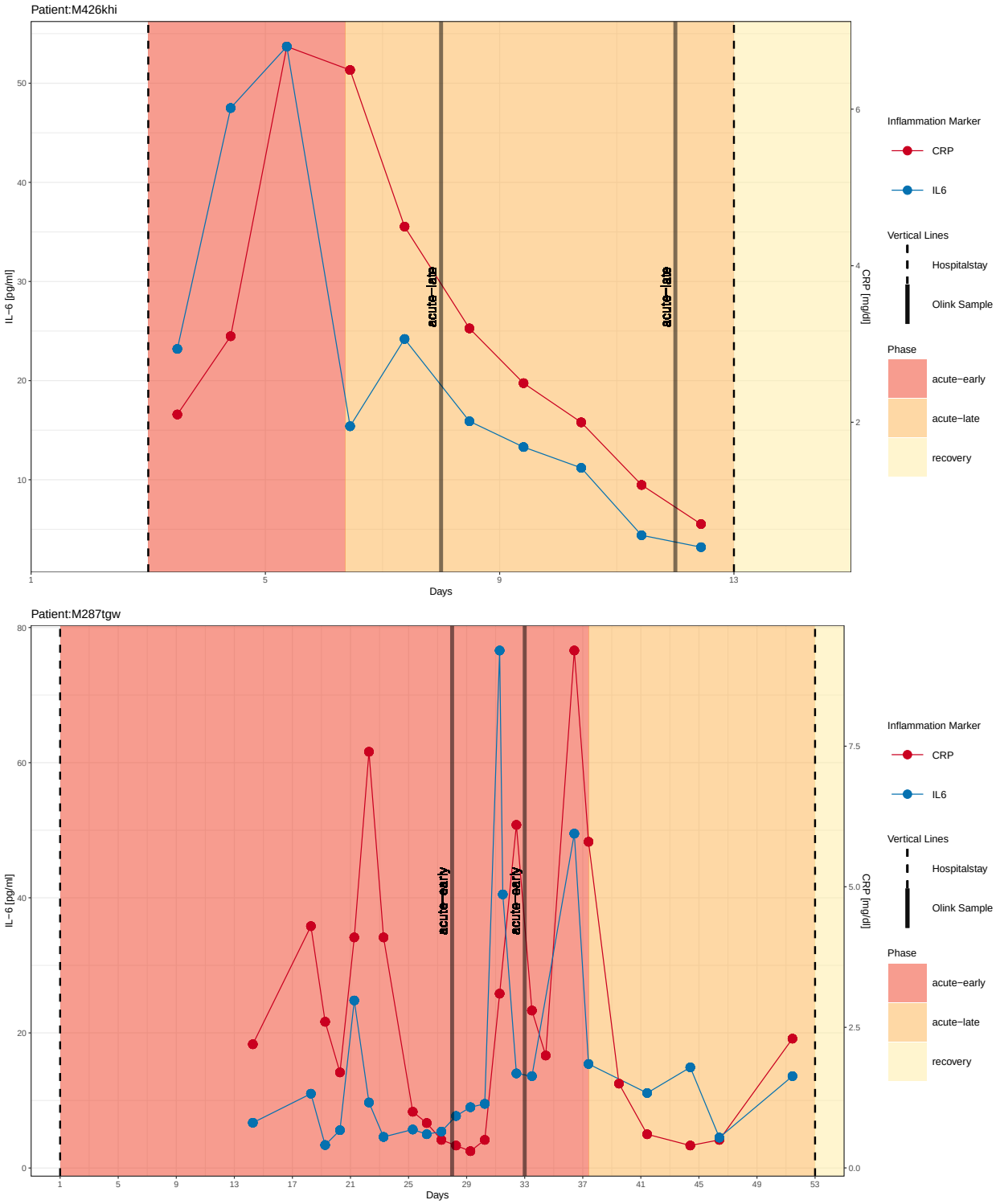

Patient:M519zoi
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Patient:M441gmx
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

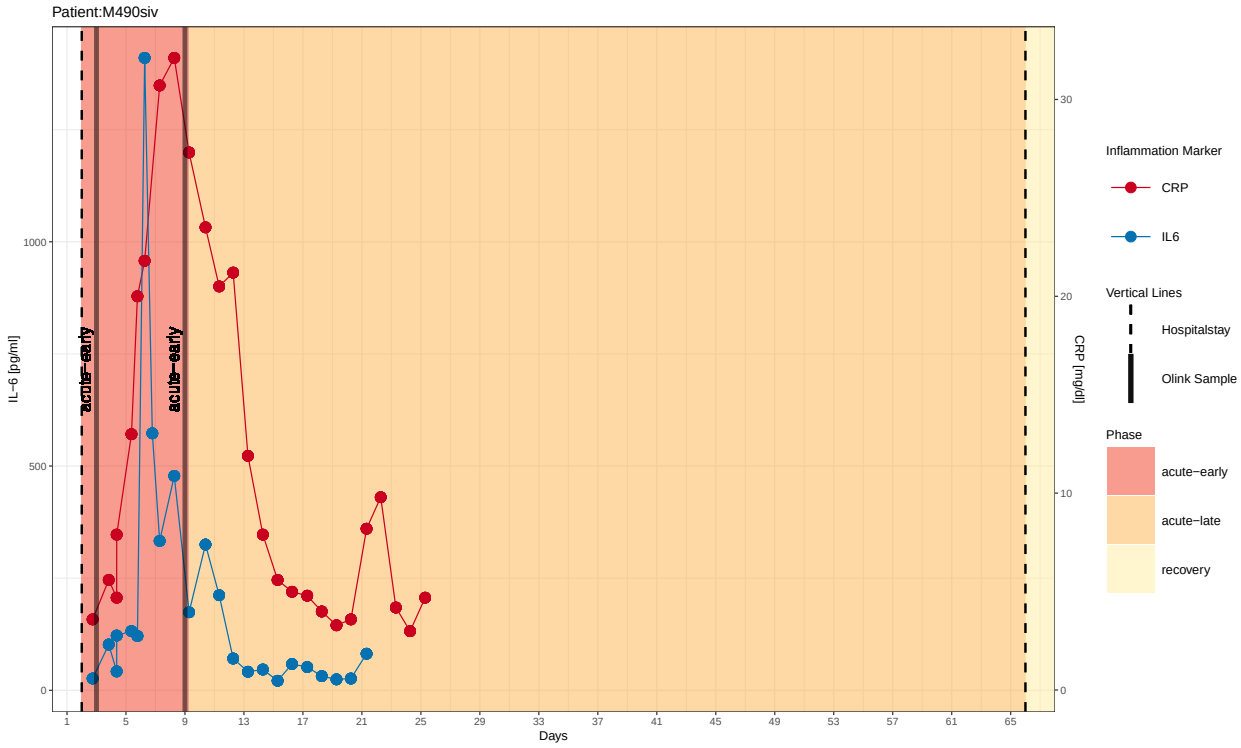

Patient:M881yot
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M378klq
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

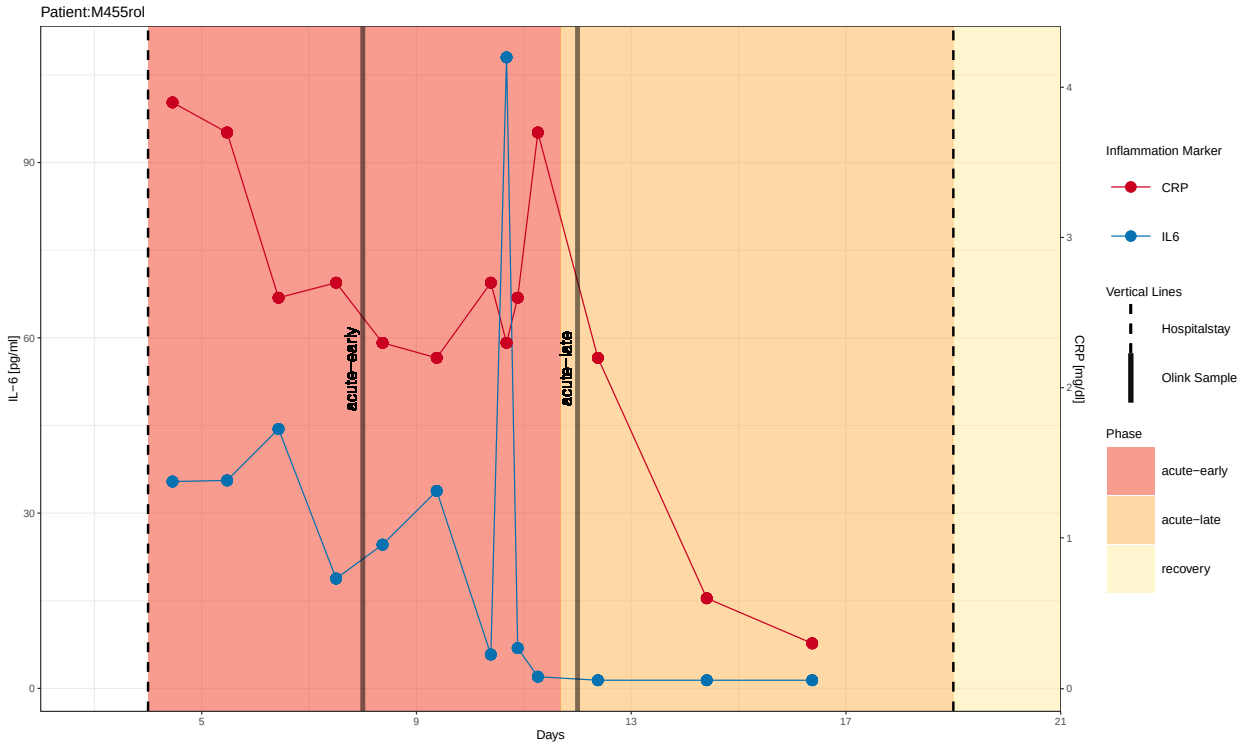

Patient:M960dum
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

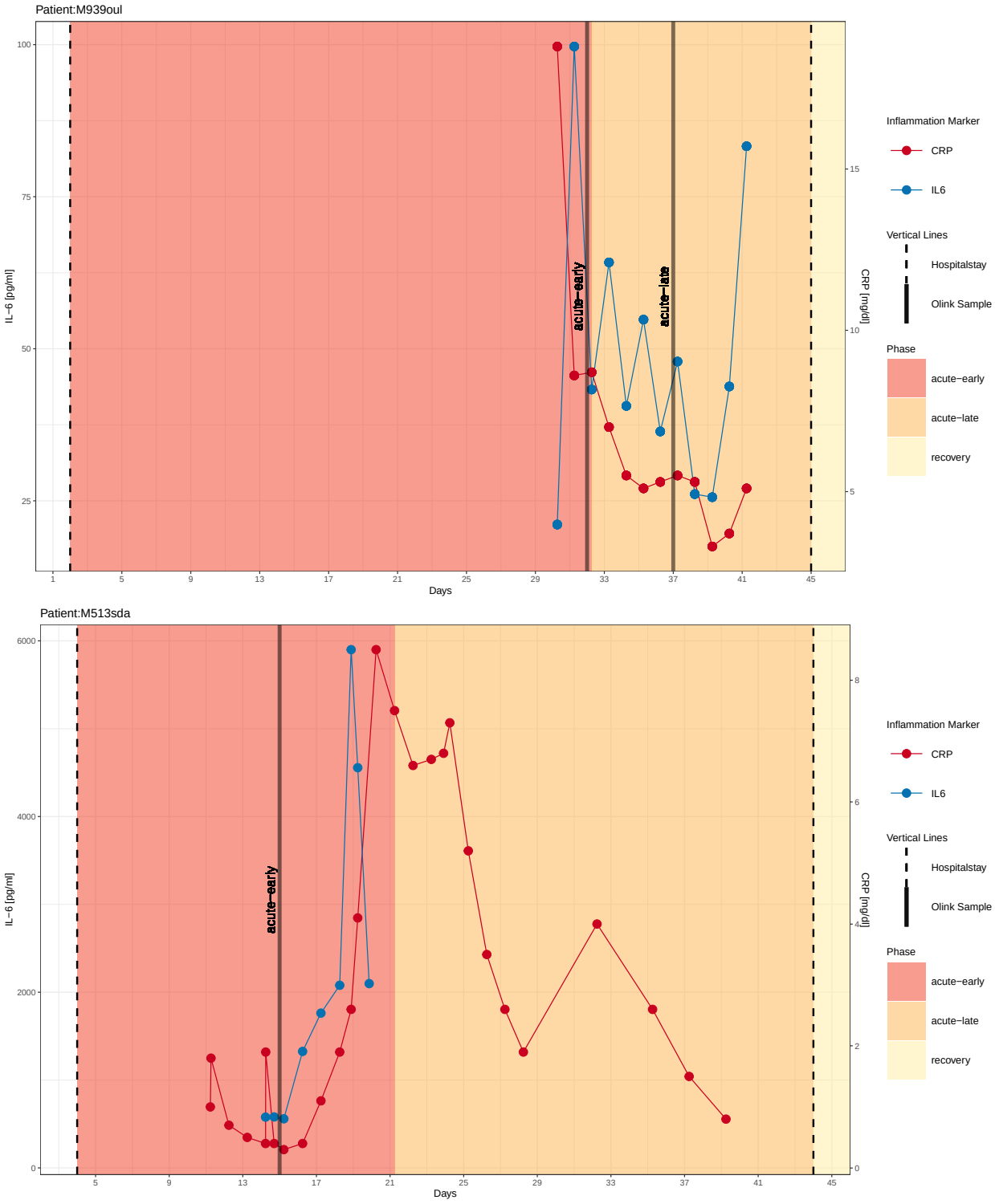

Patient:M344cai
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

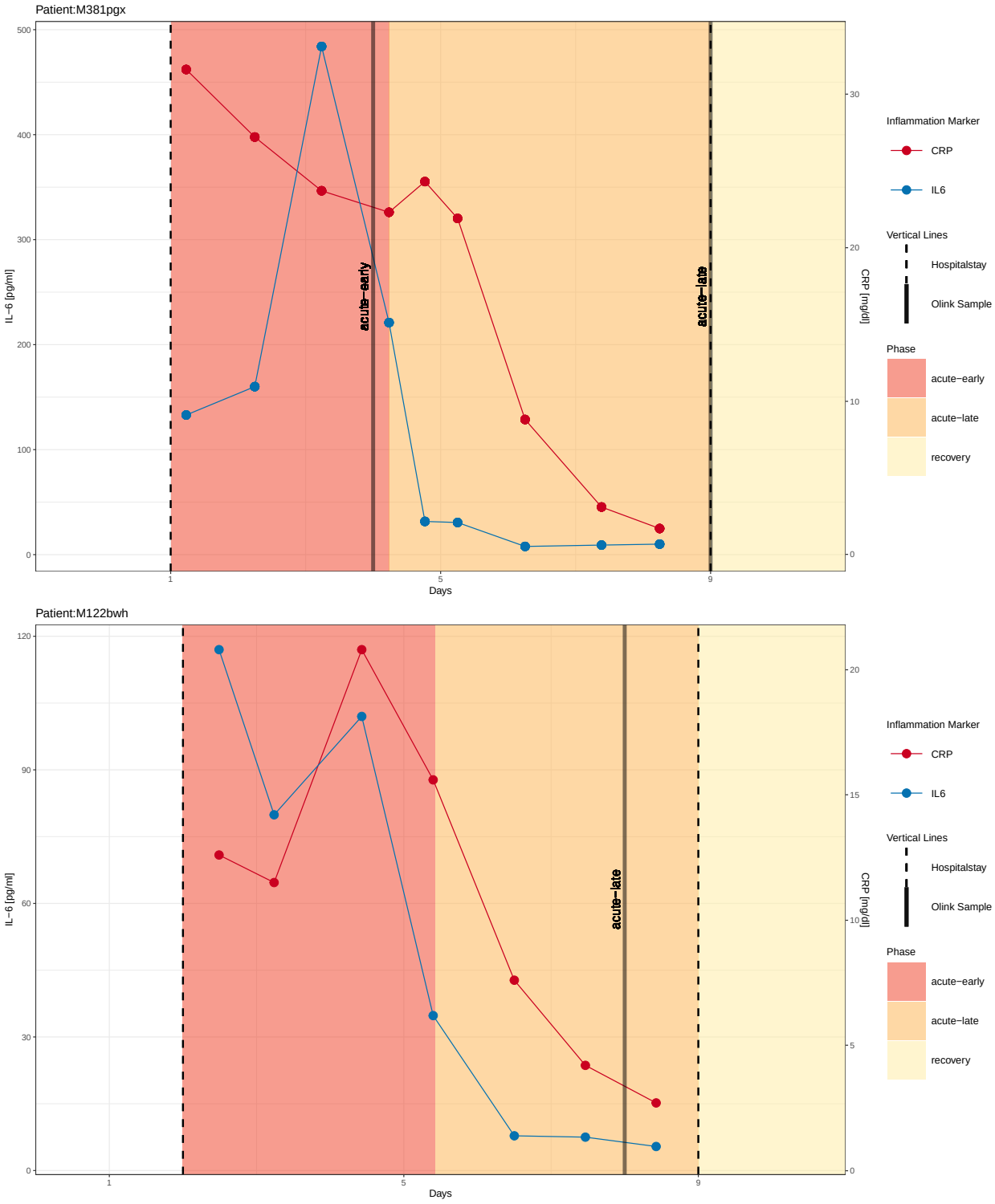

Patient:M418tri
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M212cbm
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

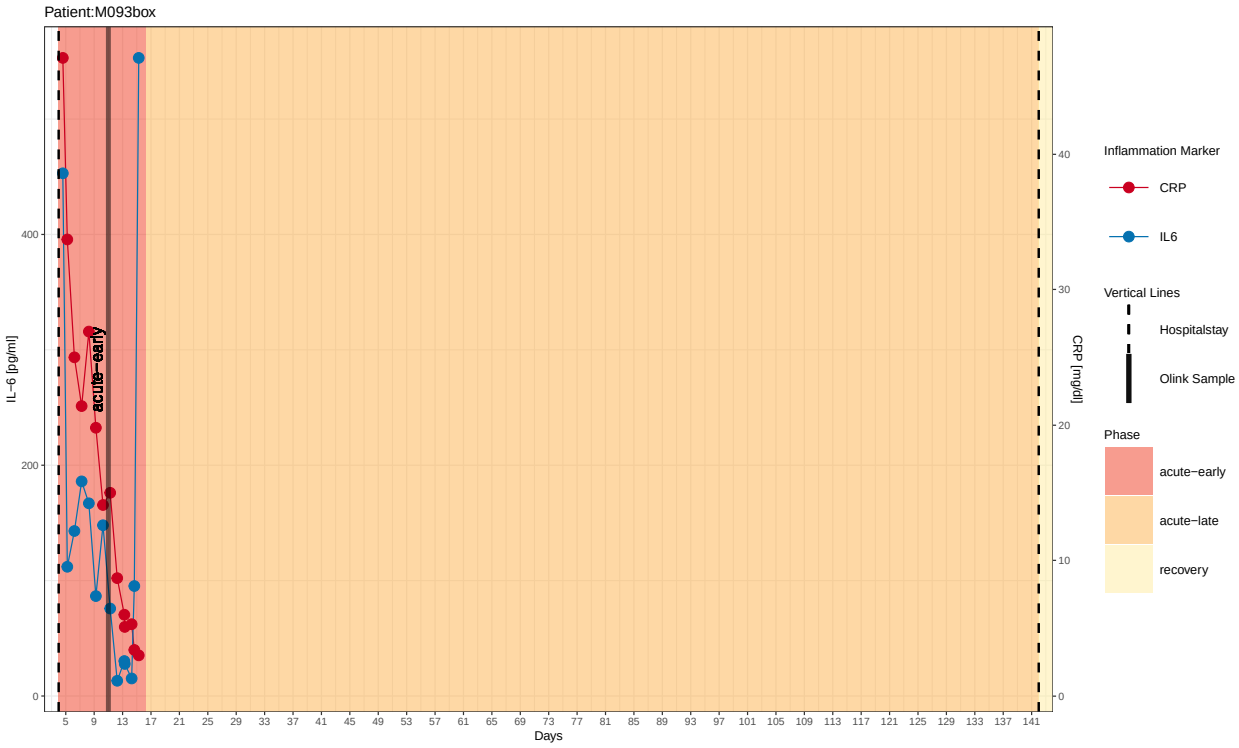

Patient:M426khi
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M287tgw
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

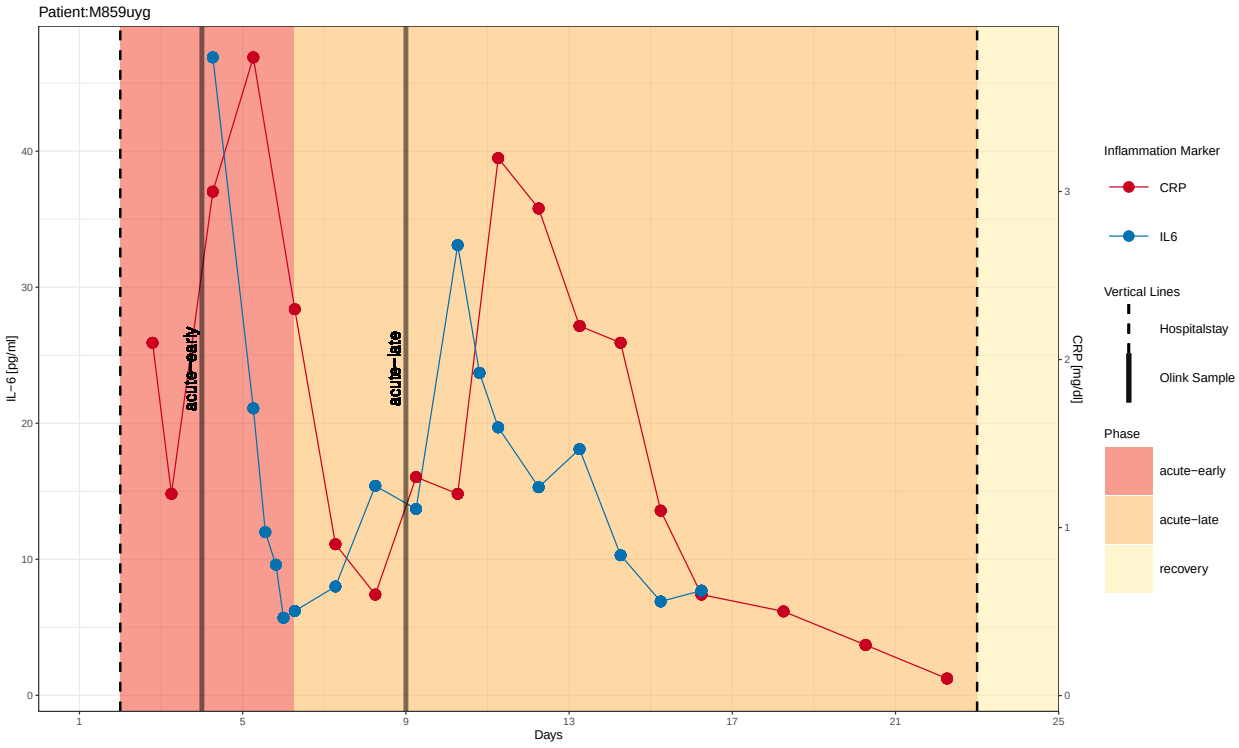

Patient:M490siv
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

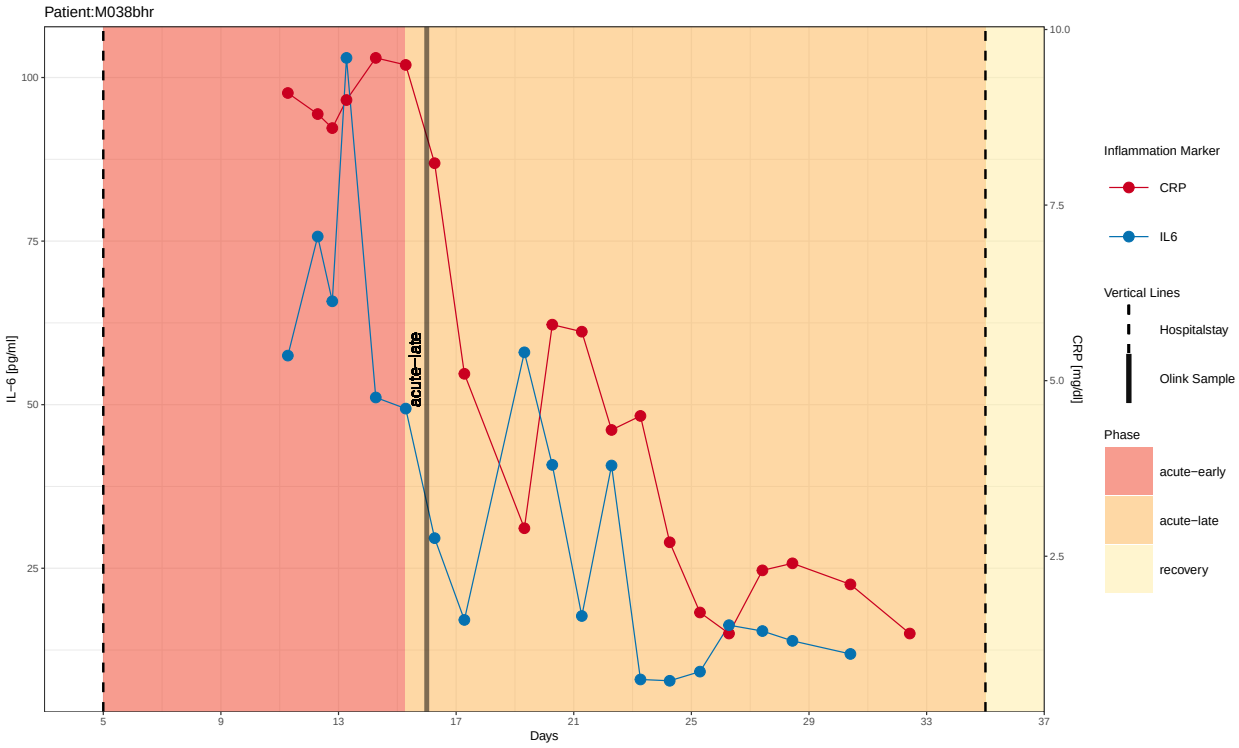

Patient:M455rol
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

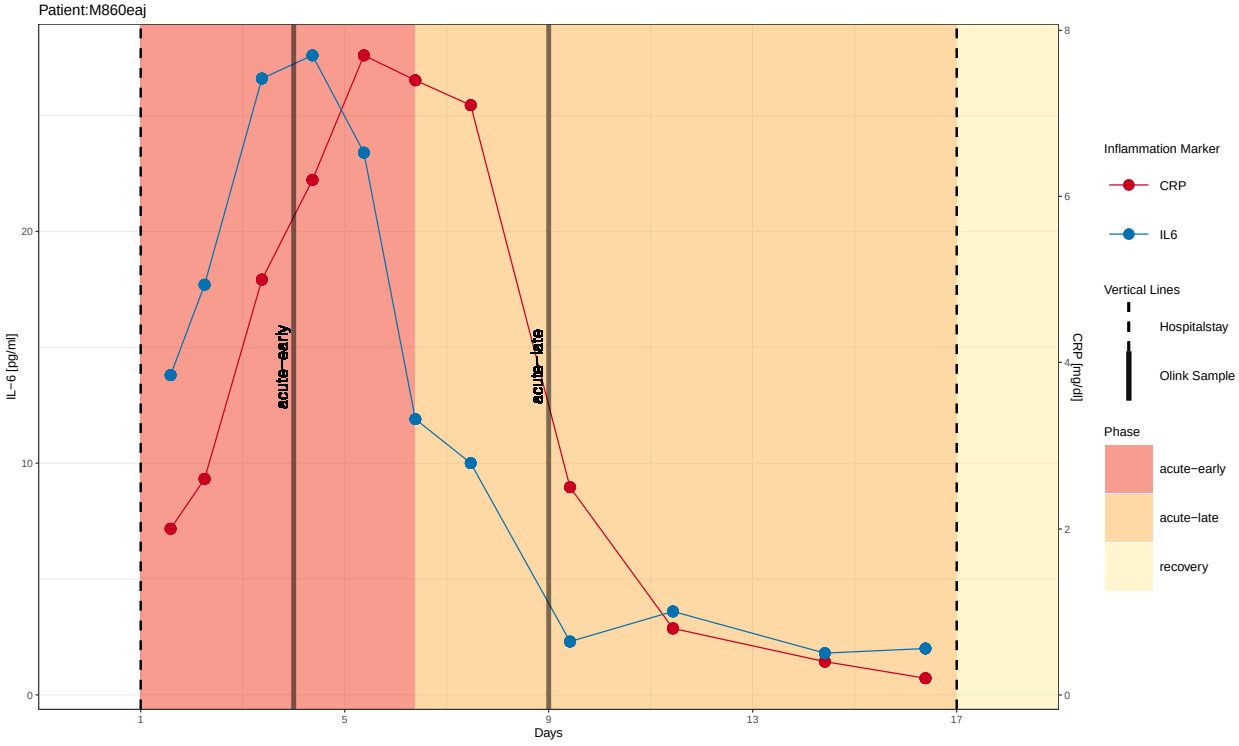

Patient:M939oul
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M513sda
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

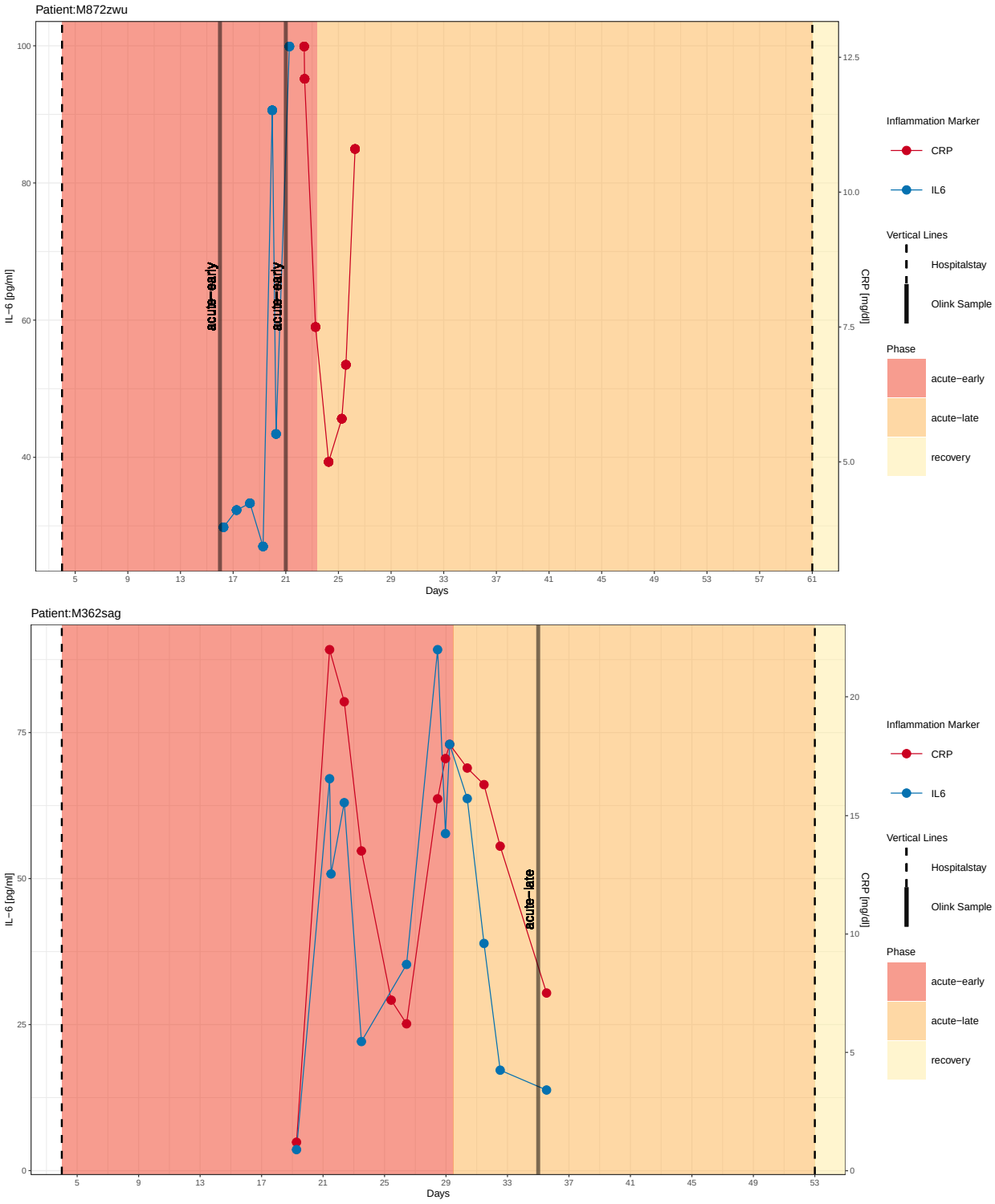

Patient:M381pgx
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M122bwh
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

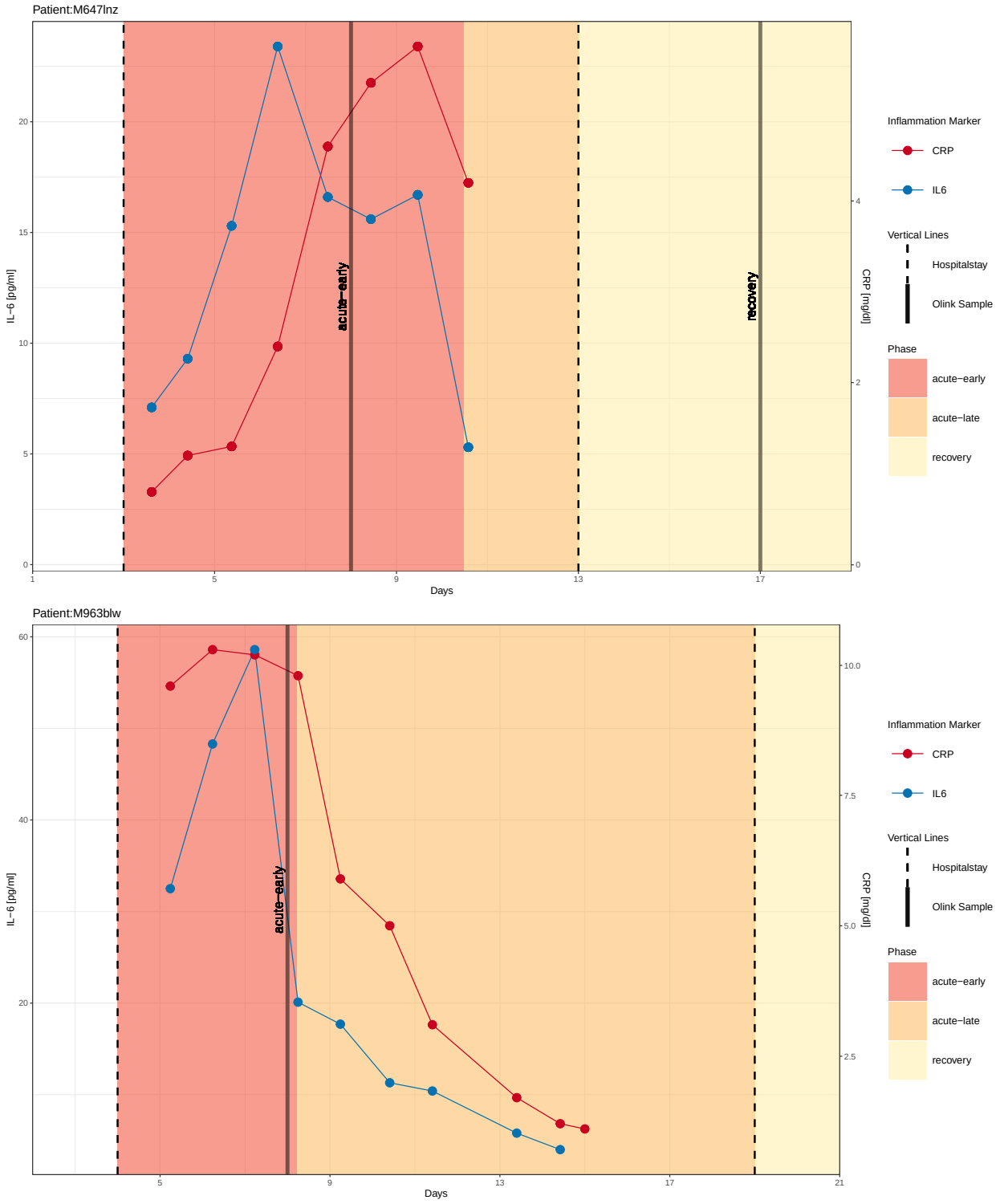

Patient:M093box
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

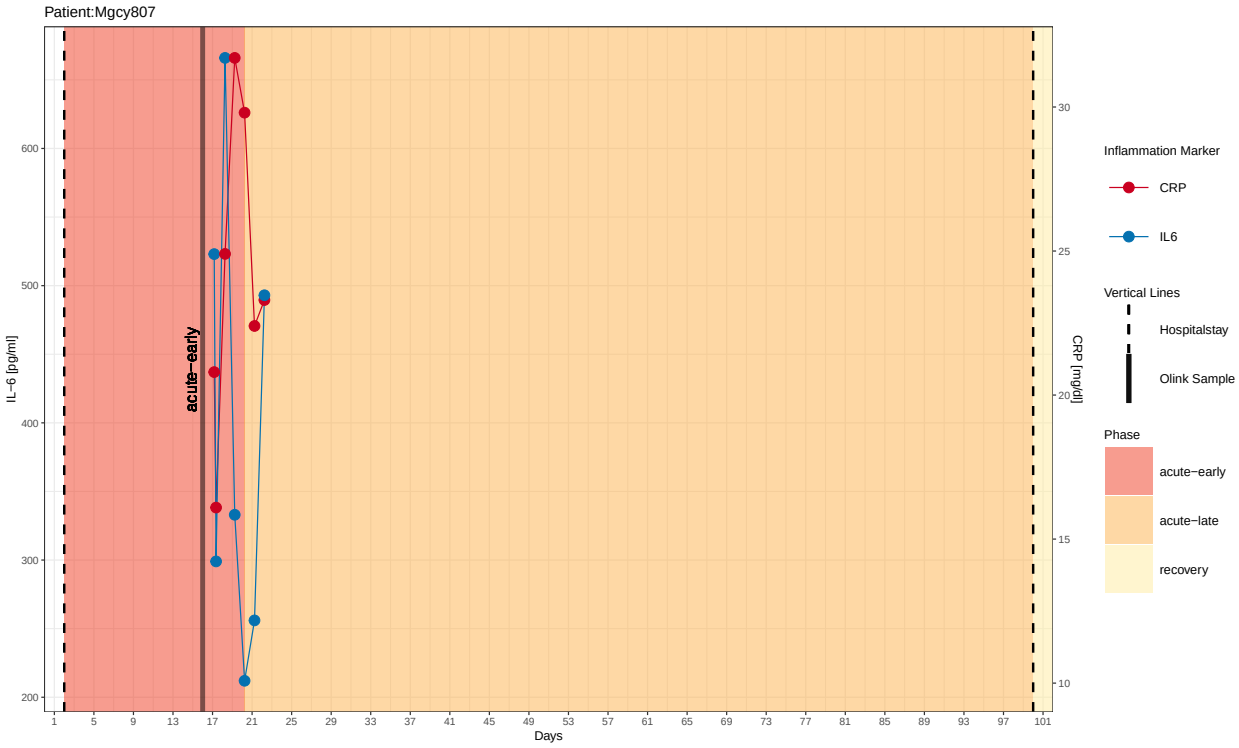

Patient:M859uyg
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

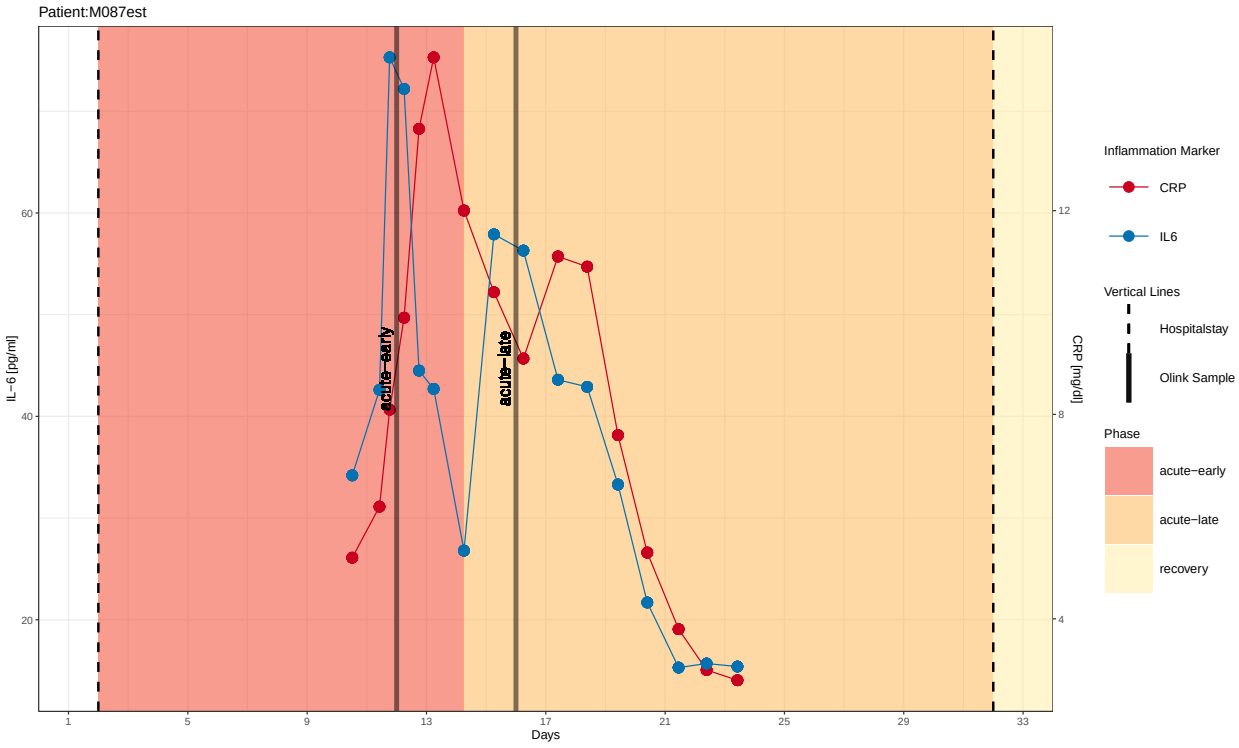

Patient:M038bhr
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

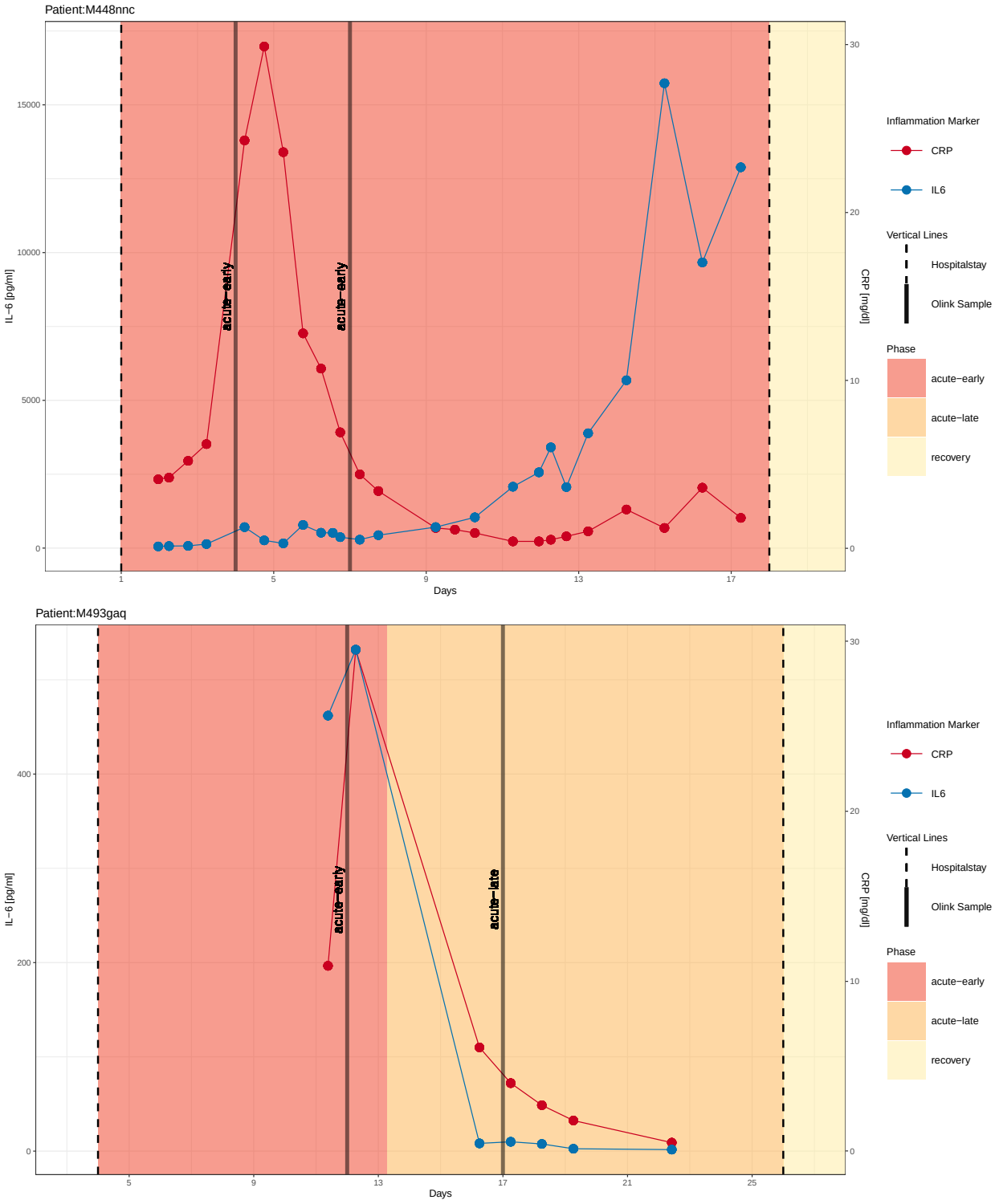

Patient:M860eaj
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

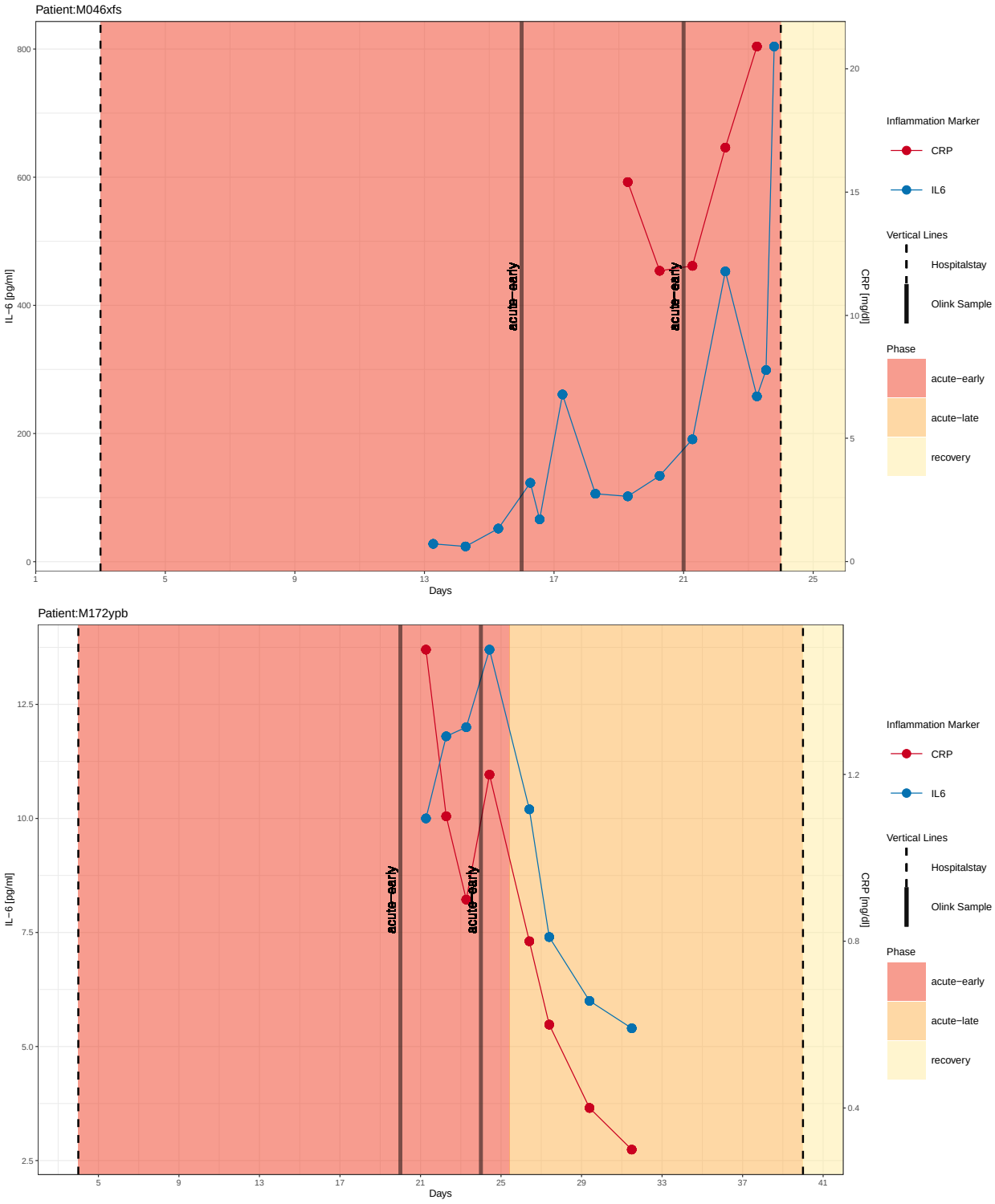

Patient:M872zwu
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M362sag
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

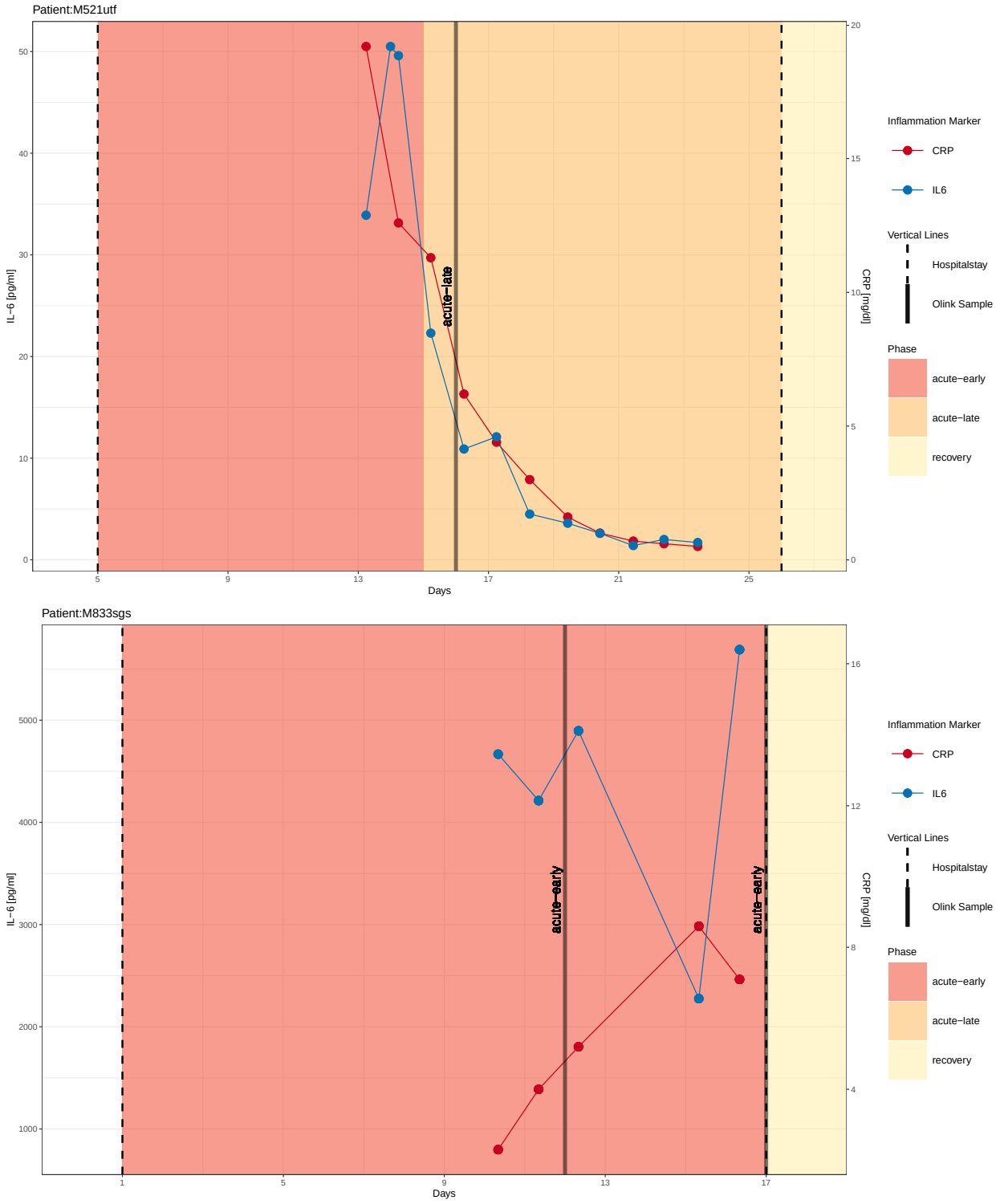

Patient:M647lnz
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
recovery
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M963blw
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

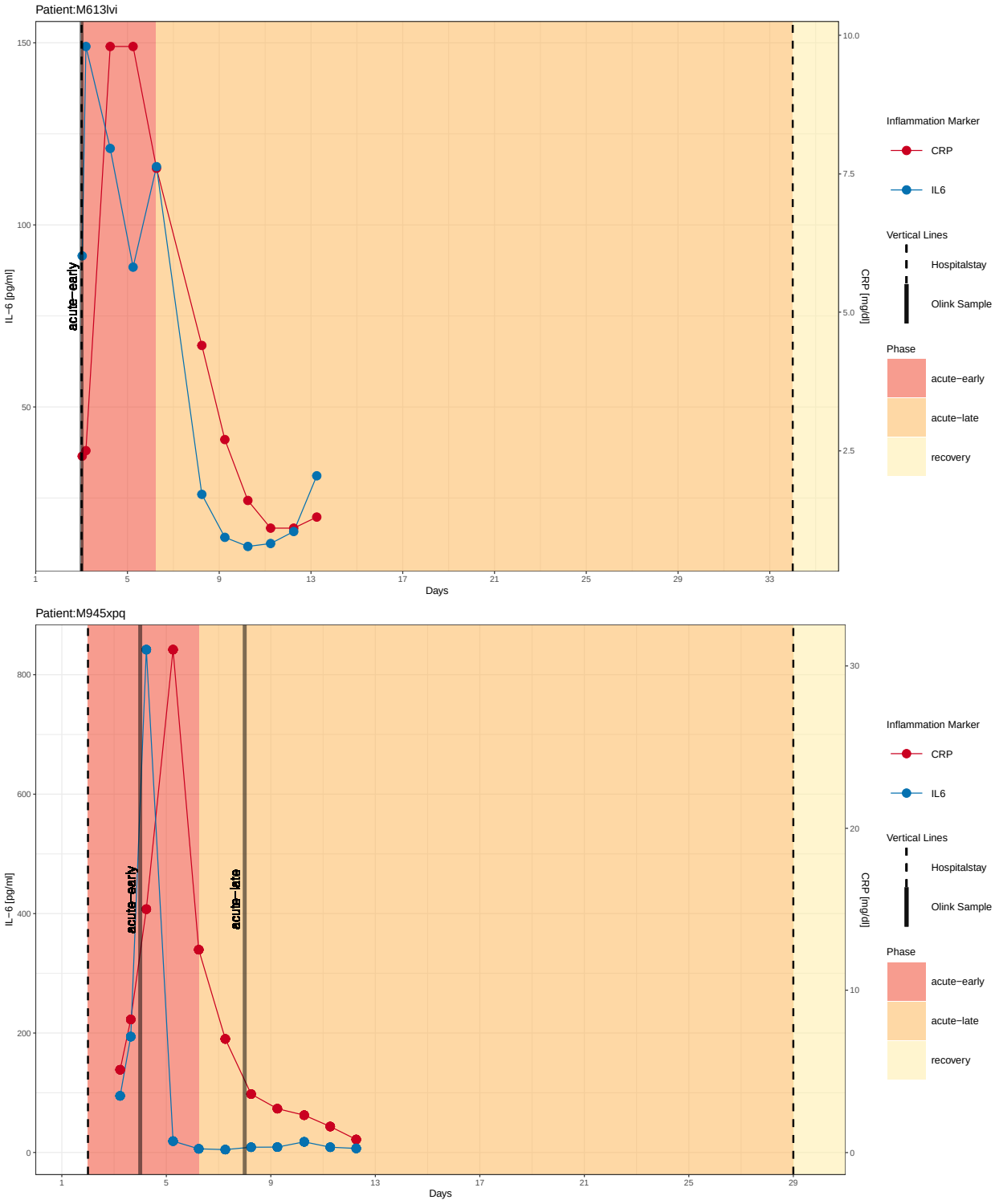

Patient:Mgcy807
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

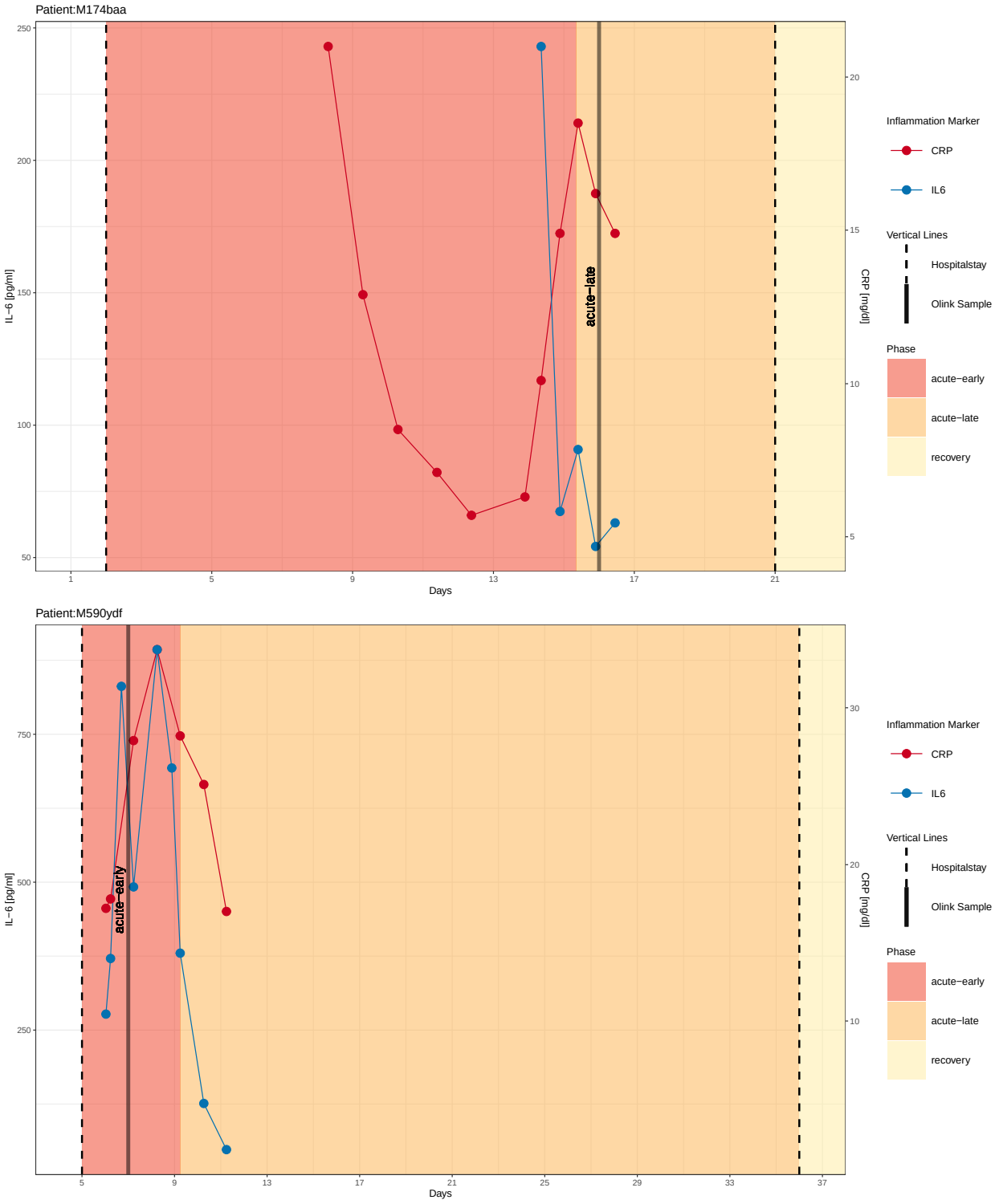

Patient:M087est
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:M448nnc
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M493gaq
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:M046xfs
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M172ypb
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:M521utf
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M833sgs
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:M613lvi
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery
Patient:M945xpq
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
acute−late
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery


Patient:M174baa
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−late
Patient:M590ydf
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

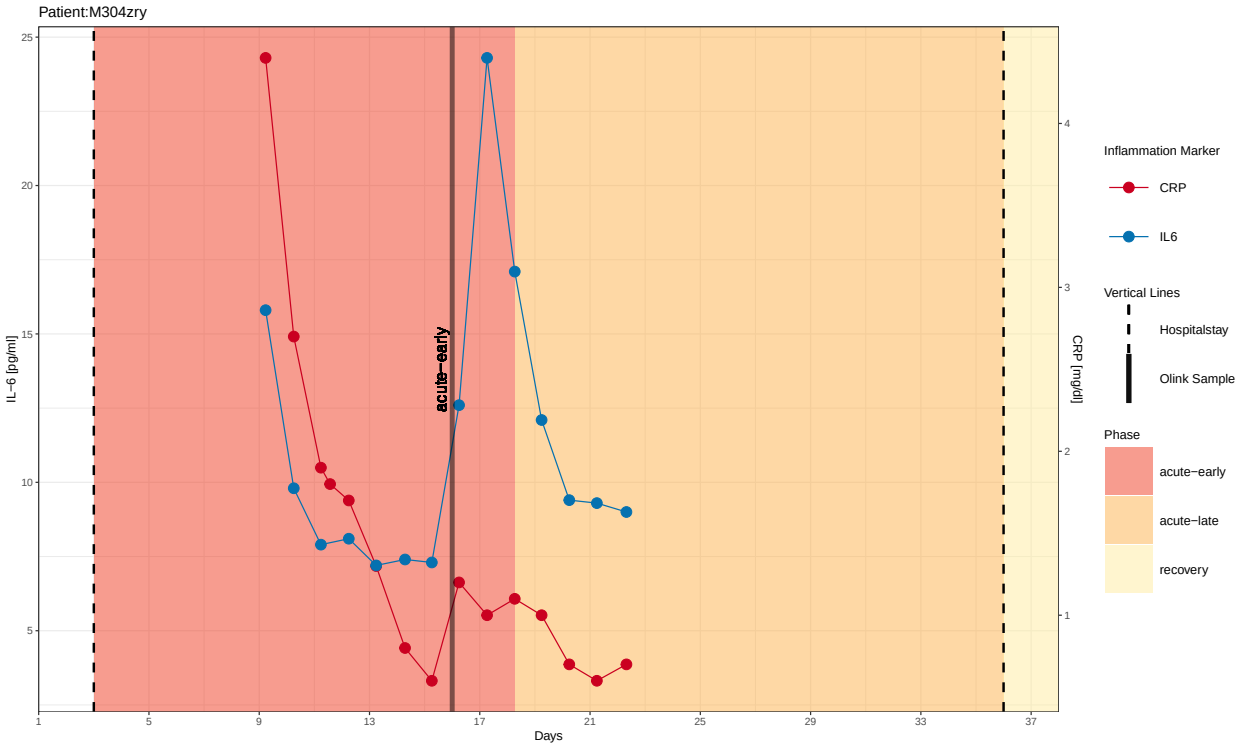

Patient:M304zry
IL−6 [pg/ml]
CRP [mg/dl]
Days
acute−early
Inflammation Marker
CRP
IL6
Vertical Lines
Hospitalstay
Olink Sample
Phase
acute−early
acute−late
recovery

Figure S2: Time between nearest laboratory sample and protein sample. Color Code for the mean difference in days is shown on the right. The respective standard deviation for every laboratory value for the available information is shown as a number in every cell.

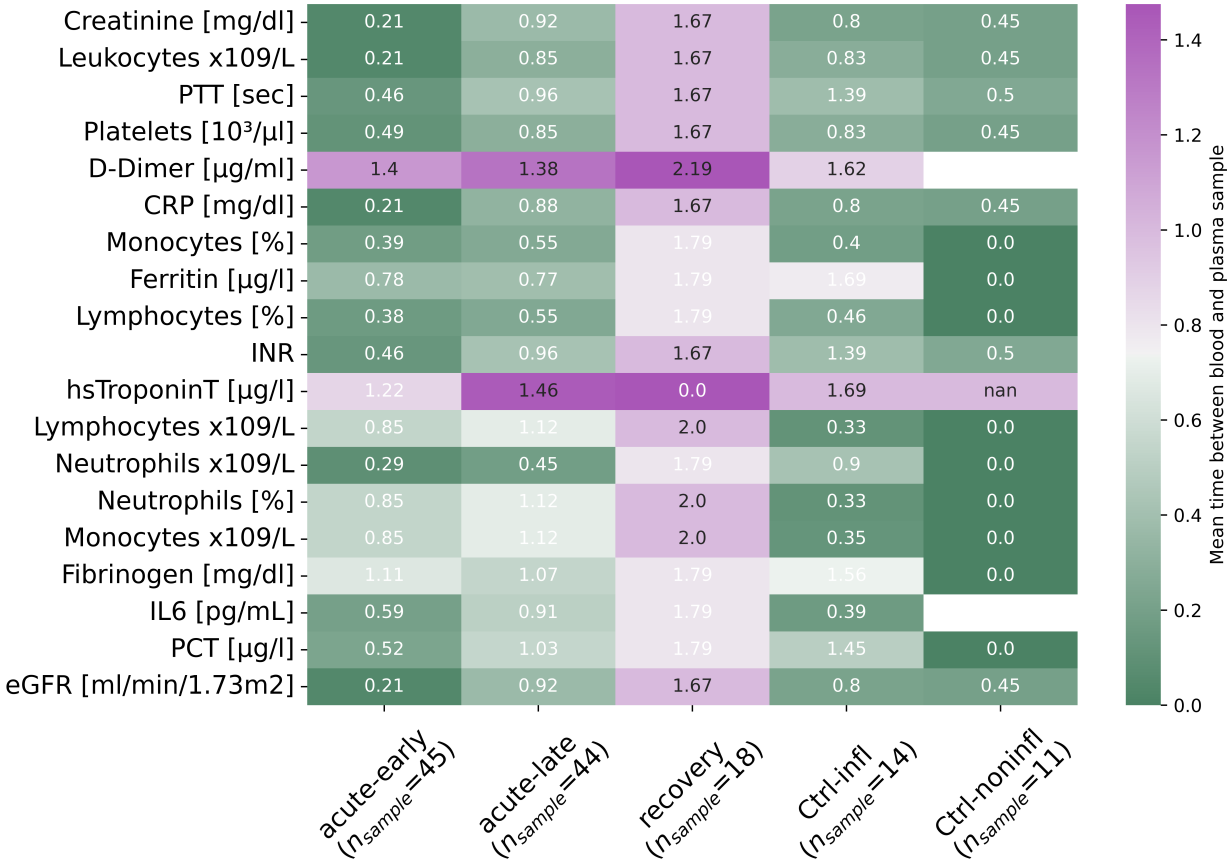


Figure S3: Missing laboratory values during disease trajectory

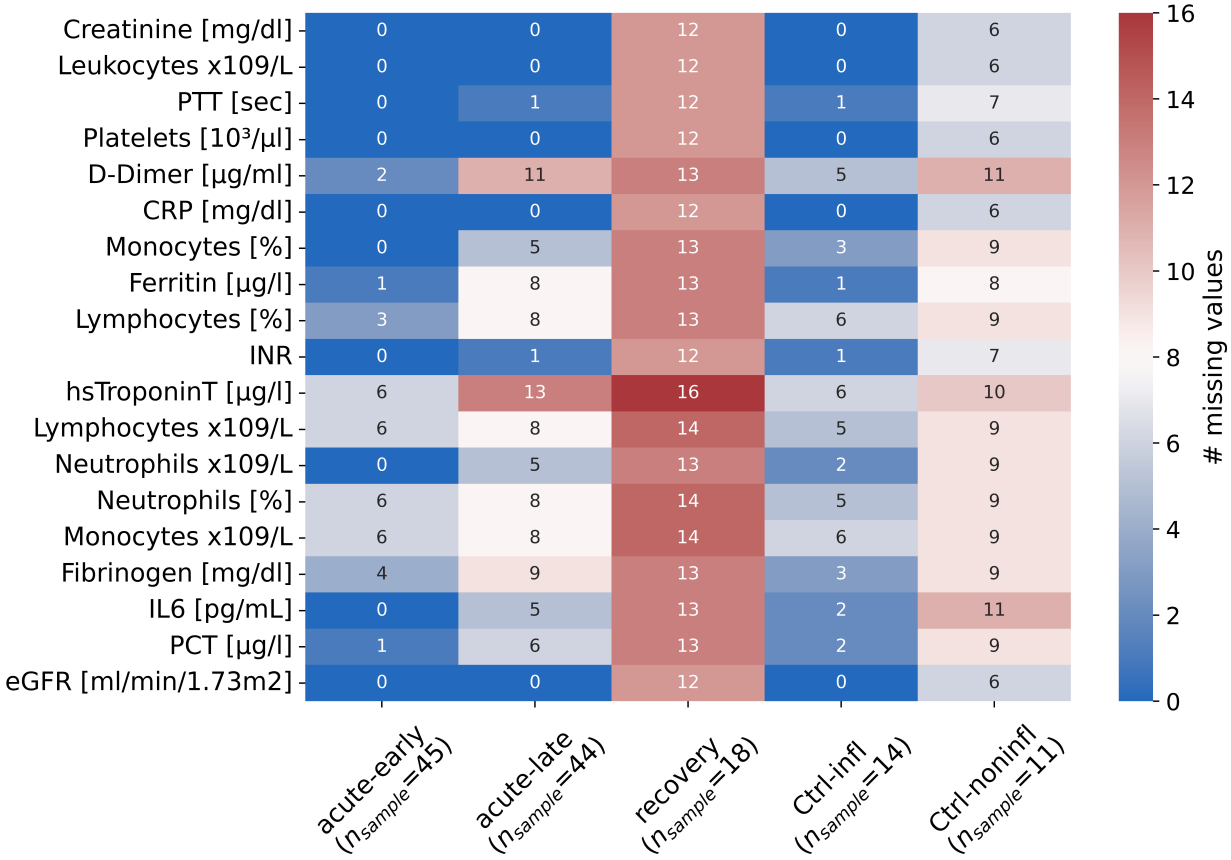


Figure S4: Severity-based trajectory of routine biochemical indices

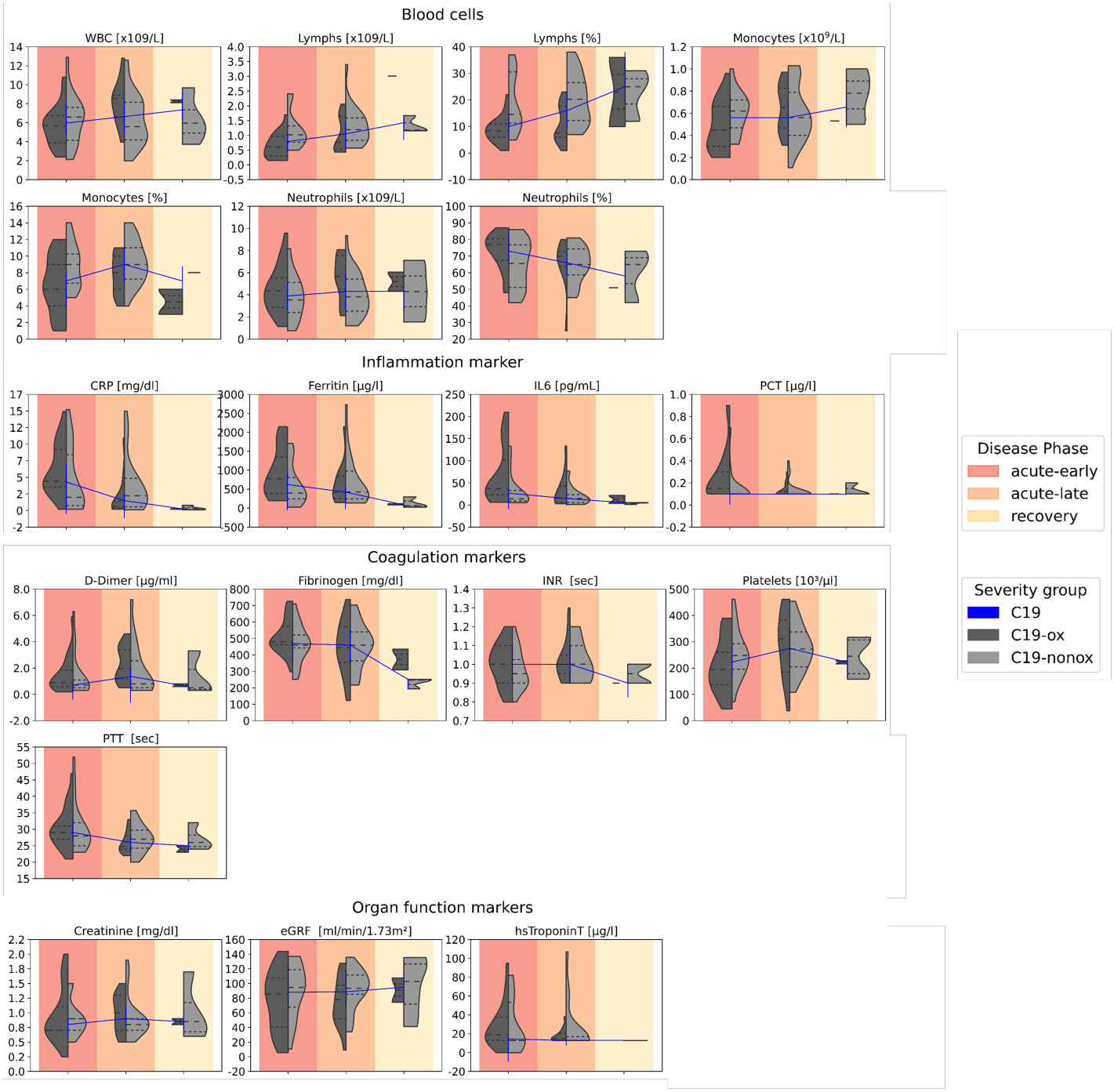


Figure S5: Pathway enrichment analysis for trajectory-based (*acute-early, acute-late, recovery* phase) comparison to both control groups (*Ctrl-infl, Ctrl-noninfl*)

Figure S6: Volcano plot of all phase comparisons and severity-based phase

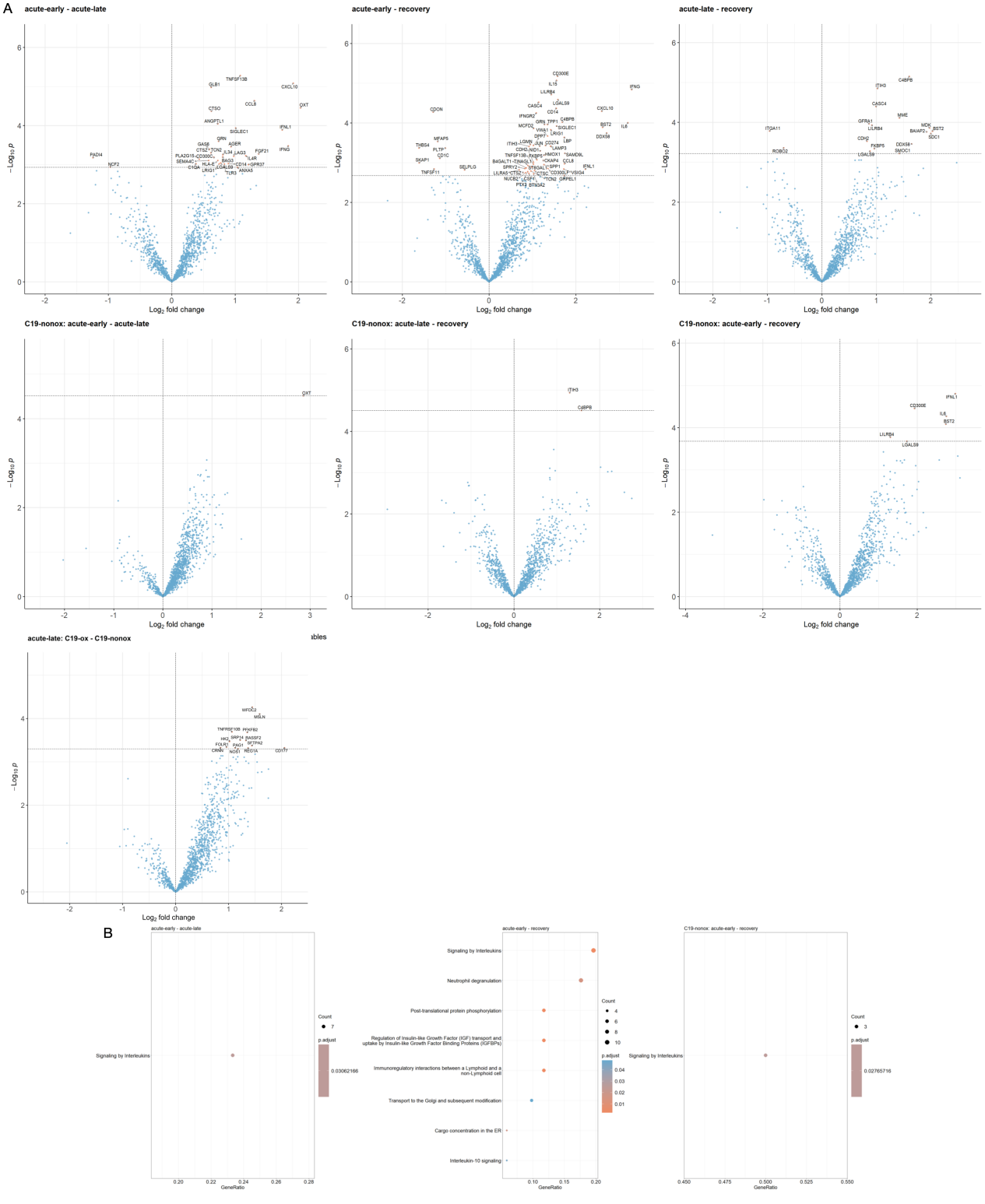
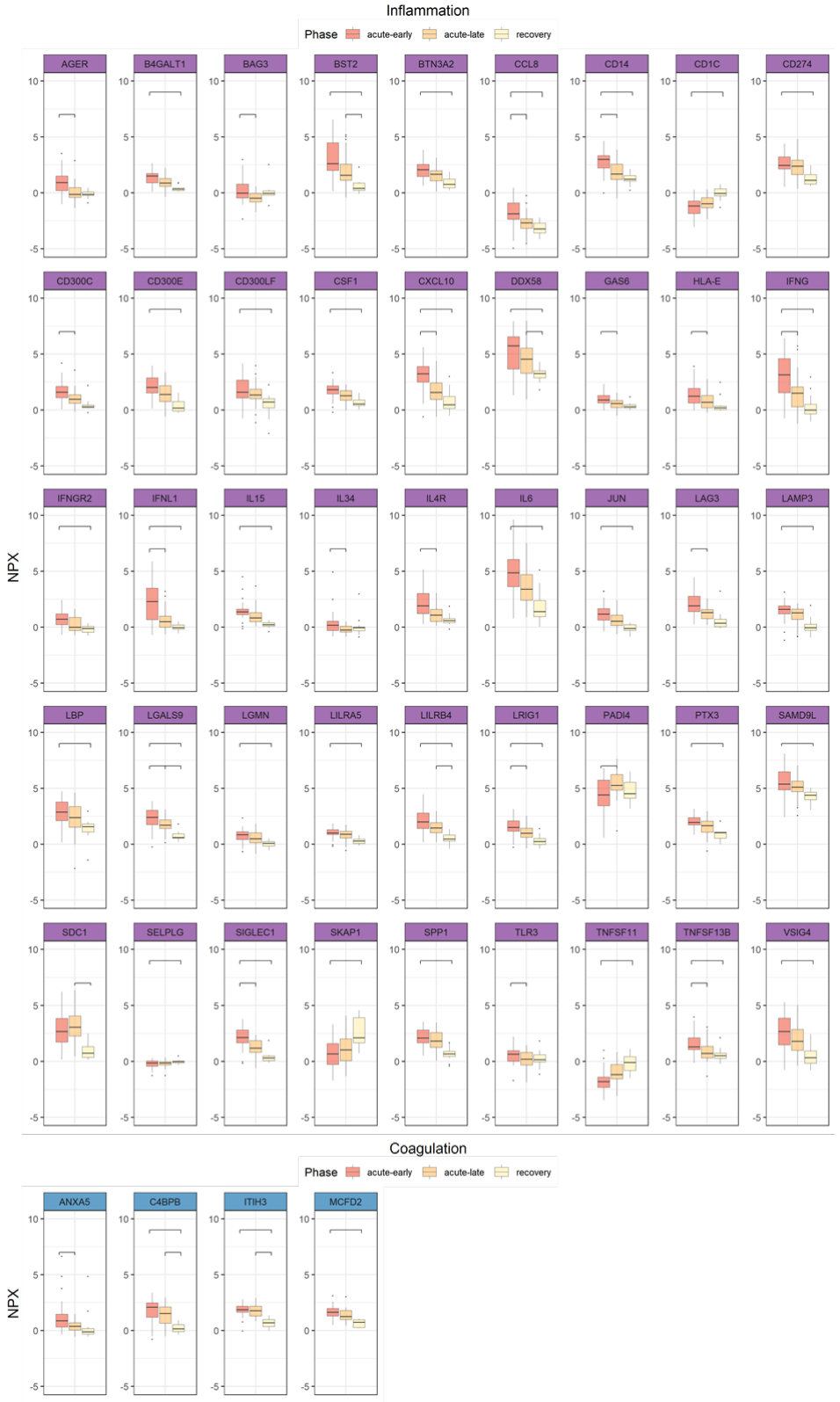
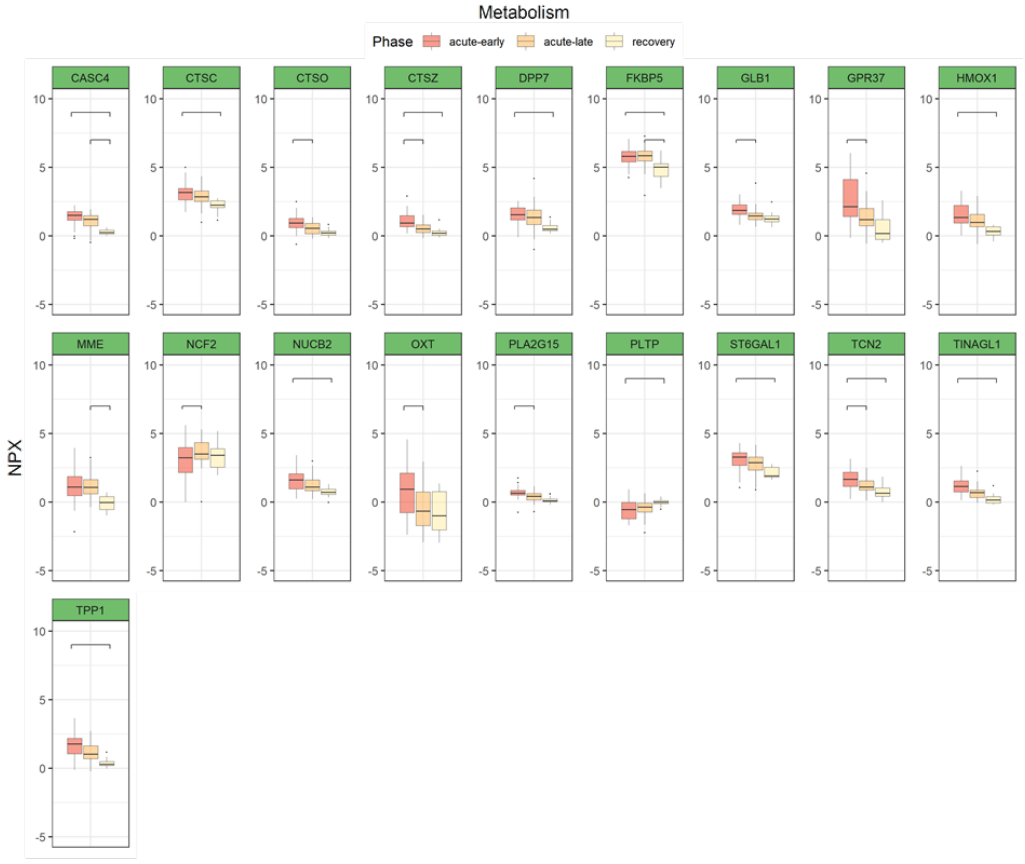


Figure S7: Distribution of chosen differential abundant proteins for disease trajectory.



Remodelling
Phase
acute-early
acute-late
recovery
ANGPTL1
BAIAP2
C1QA
CDH2
CDON
CKAP4
FGF21
GFRA1
GRN
GRPEL1
ITGA11
MDK
MFAP5
NID1
ROBO2
SEMA4C
SMOC1
SPRY2
THBS4
VWA1
NPX


Metabolism
Phase
acute-early
acute-late
recovery
CASC4
CTSC
CTSO
CTSZ
DPP7
FKBP5
GLB1
GPR37
HMOX1
MME
NCF2
NUCB2
OXT
PLA2G15
PLTP
ST6GAL1
TCN2
TINAGL1
TPP1
NPX