

**Supplementary Table SI.** Laboratory tests of peripheral blood of studied patients

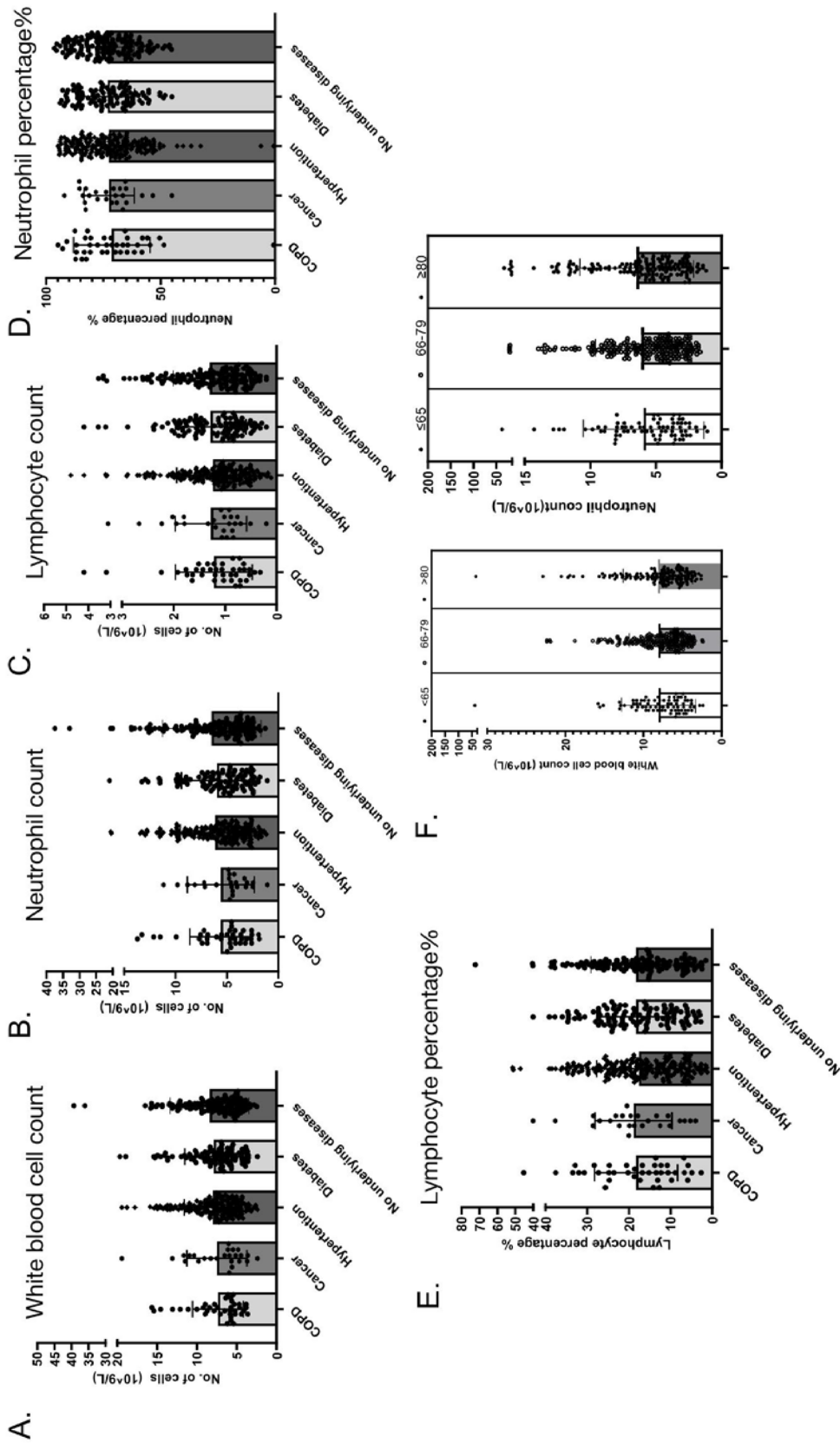
<b>Factors</b>	<b>Mean <math>\pm</math> SD (n = 450)</b>	<b>Range</b>
White blood cell count [ $10^9/l$ ]	8.11 $\pm$ 4.17	2.4–39.26
Lymphocyte count [ $10^9/l$ ]	1.26 $\pm$ 0.70	0.11–4.8
Neutrophils [ $10^9/l$ ]	6.22 $\pm$ 4.02	1.08–37.5
Neutrophil percentage (%)	73.05 $\pm$ 13.21	0.79–96.5
Lymphocyte percentage (%)	18.04 $\pm$ 10.37	1.2–73.3
Troponin	0.09 $\pm$ 0.42	0.06–5.536
CK-MB	3.18 $\pm$ 6.66	0.08–66.51

**Supplementary Table SII.** Detailed peripheral blood cell test comparisons in five different groups of patients

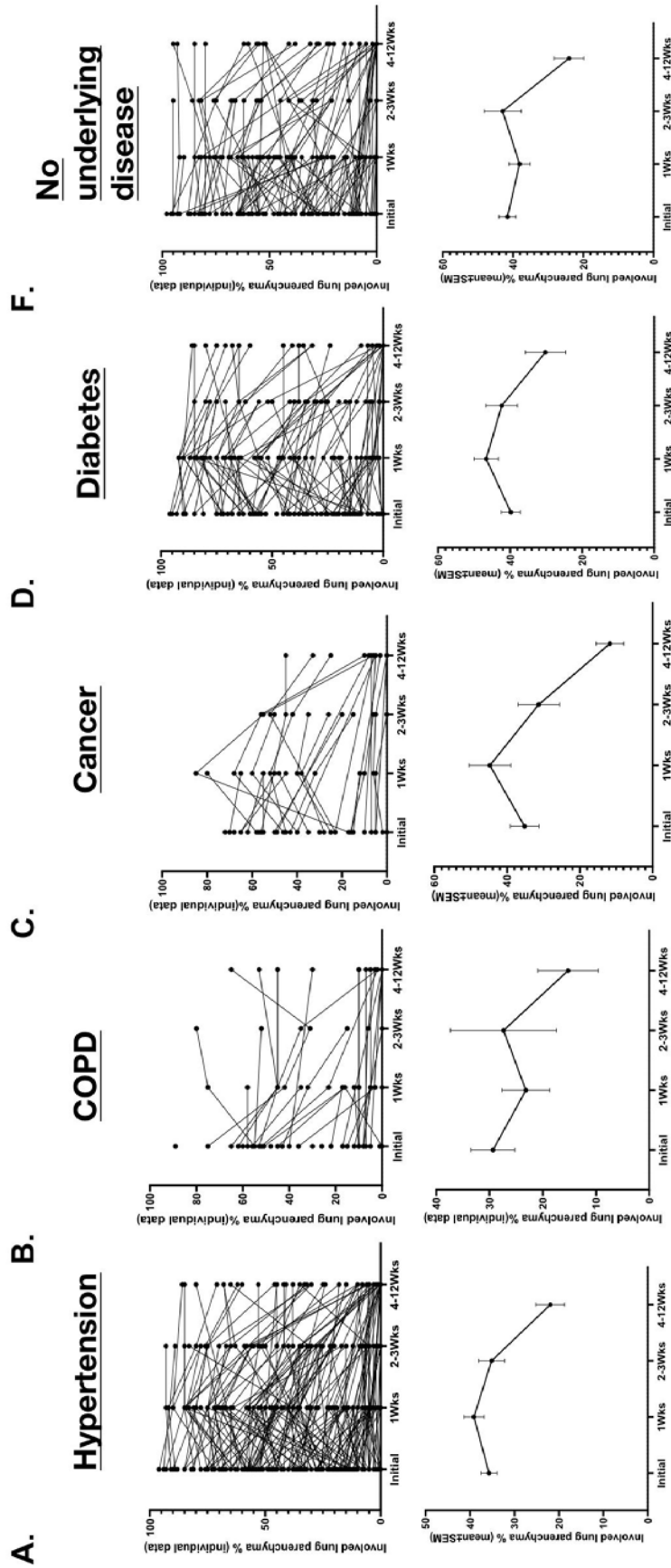
Parameter	COPD	Cancer	Hypertension	Diabetes	No basic diseases
<b>White blood cell count</b>					
Number of values	39	25	214	107	154
Minimum	3.63	2.4	2.41	2.4	2.48
Maximum	15.67	19.44	22	22.37	39.26
Range	12.04	17.04	19.59	19.97	36.78
Mean	7.38	7.513	8.033	7.9	8.419
Std. deviation	3.201	3.773	3.578	3.627	4.937
Std. error of mean	0.5125	0.7546	0.2446	0.3506	0.3979
<b>Neutrophil count</b>					
Number of values	39	25	214	107	154
Minimum	1.86	1.08	1.18	1.08	1.28
Maximum	13.72	16.18	20.63	21	37.5
Range	11.86	15.1	19.45	19.92	36.22
Mean	5.596	5.59	6.124	6	6.492
Std. deviation	3.016	3.256	3.413	3.441	4.796
Std. error of mean	0.483	0.6513	0.2333	0.3326	0.3865
<b>Lymphocyte count</b>					
Number of values	39	25	214	107	154
Minimum	0.32	0.2	0.11	0.2	0.2
Maximum	4.2	3.12	4.8	4.2	3.54
Range	3.88	2.92	4.69	4	3.34
Mean	1.217	1.276	1.235	1.282	1.298
Std. deviation	0.744	0.6905	0.7061	0.6848	0.7135
Std. error of mean	0.1191	0.1381	0.04827	0.06621	0.05749
<b>Neutrophil percentage%</b>					
Number of values	39	25	214	107	154
Minimum	0.79	45.1	0.79	45.1	45.3
Maximum	94.9	92.1	94.9	93.9	96.5
Range	94.11	47	94.11	48.8	51.2
Mean	71.38	72.58	72.69	73.24	73.44
Std. deviation	16.77	11.01	14.39	11.84	11.88
Std. error of mean	2.685	2.203	0.9835	1.145	0.9569
<b>Lymphocyte percentage%</b>					
Number of values	39	25	214	107	154
Minimum	2.7	4	1.2	2.8	1.6
Maximum	45.4	40.1	51.6	40.1	72.3
Range	42.7	36.1	50.4	37.3	70.7
Mean	18.3	18.91	17.61	18.3	18.31
Std. deviation	9.992	9.228	10.12	9.393	10.83
Std. error of mean	1.6	1.846	0.6921	0.908	0.8729
<b>CRP [mg/l]</b>					
Number of values	35	25	214	107	151
Minimum	0.75	0.41	0.25	0.46	0.27
Maximum	89.54	213	274	296.2	296.3
Range	88.79	212.6	273.7	295.8	296
Mean	20.83	46.89	44.43	42.86	46.32

Supplementary Table SII. Cont.

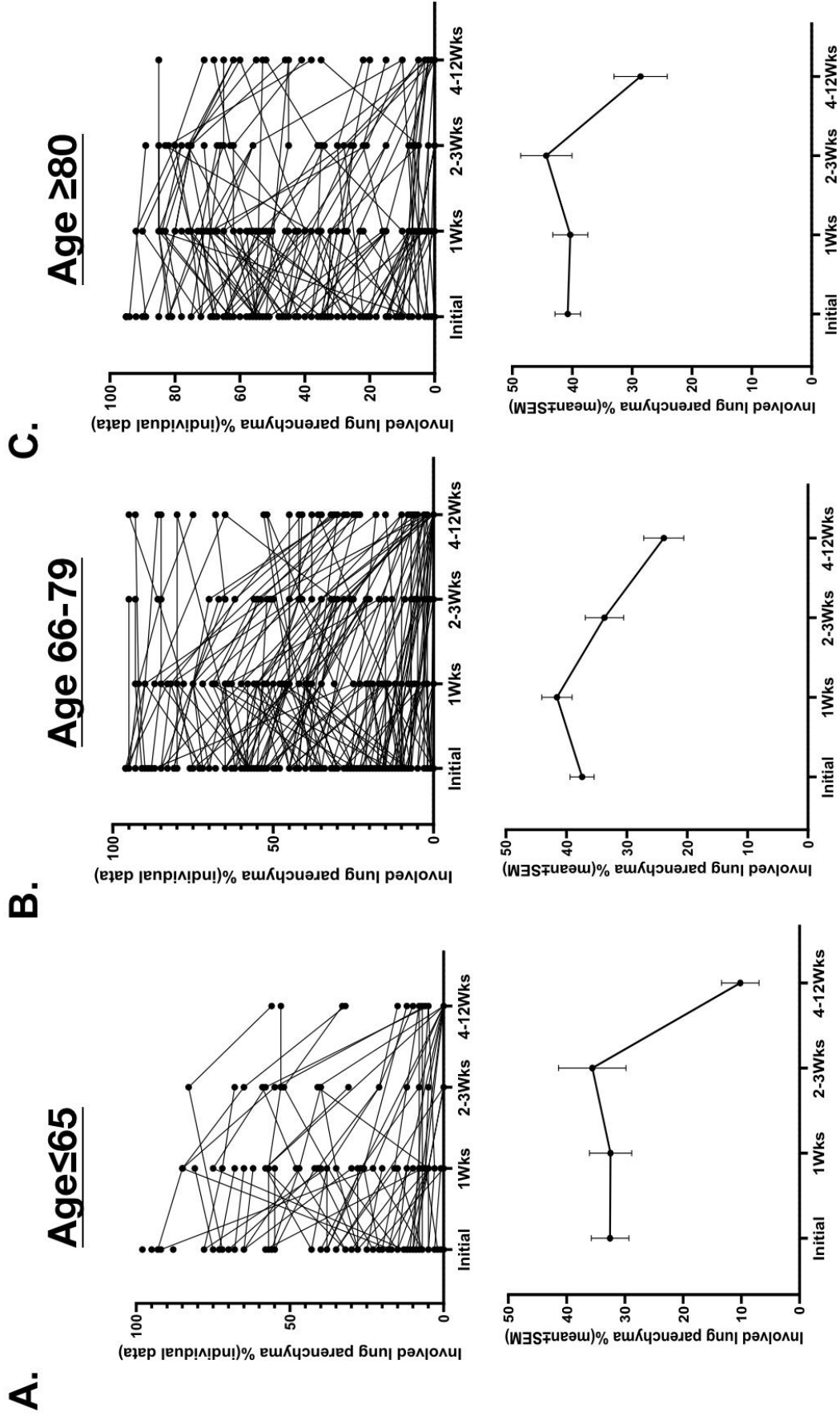
Parameter	COPD	Cancer	Hypertension	Diabetes	No basic diseases
Std. deviation	23.59	58.29	55.02	54.8	60.26
Std. error of mean	3.987	11.66	3.761	5.298	4.904
<b>CD4+T%</b>					
Number of values	4	8	70	33	31
Minimum	27.02	20.74	13.56	18.8	15
Maximum	42.64	61.6	77.12	59.66	54.04
Range	15.62	40.86	63.56	40.86	39.04
Mean	31.3	36.7	36.64	37.09	37.49
Std. deviation	7.573	13.35	11.91	10.4	11.46
Std. error of mean	3.786	4.72	1.423	1.811	2.058
<b>CD8+T%</b>					
Number of values	4	8	70	33	31
Minimum	21.42	12.38	10.44	15.22	8.4
Maximum	30.7	45.48	60.74	60.74	52.2
Range	9.28	33.1	50.3	45.52	43.8
Mean	26.68	27.8	28.9	27.62	25.97
Std. deviation	3.872	13.64	11.24	8.969	11.07
Std. error of mean	1.936	4.821	1.344	1.561	1.989
<b>CD4+T/CD8+T%</b>					
Number of values	4	8	70	33	31
Minimum	0.88	1.12	0.27	0.45	0.71
Maximum	1.5	3.83	7.39	2.84	3.64
Range	0.62	2.71	7.12	2.39	2.93
Mean	1.17	2.49	1.544	1.498	1.997
Std. deviation	0.2787	0.8305	1.02	0.6675	0.703
Std. error of mean	0.1393	0.2936	0.1219	0.1162	0.1263
<b>Inpatient duration [days]</b>					
Number of values	39	37	222	112	154
Minimum	3	1	1	1	1
Maximum	23	33	50	57	100
Range	20	32	49	56	99
Mean	11.36	12.22	12.06	12.23	11.94
Std. deviation	4.955	8.014	6.754	7.4	10.76
Std. error of mean	0.7934	1.318	0.4533	0.6992	0.8674



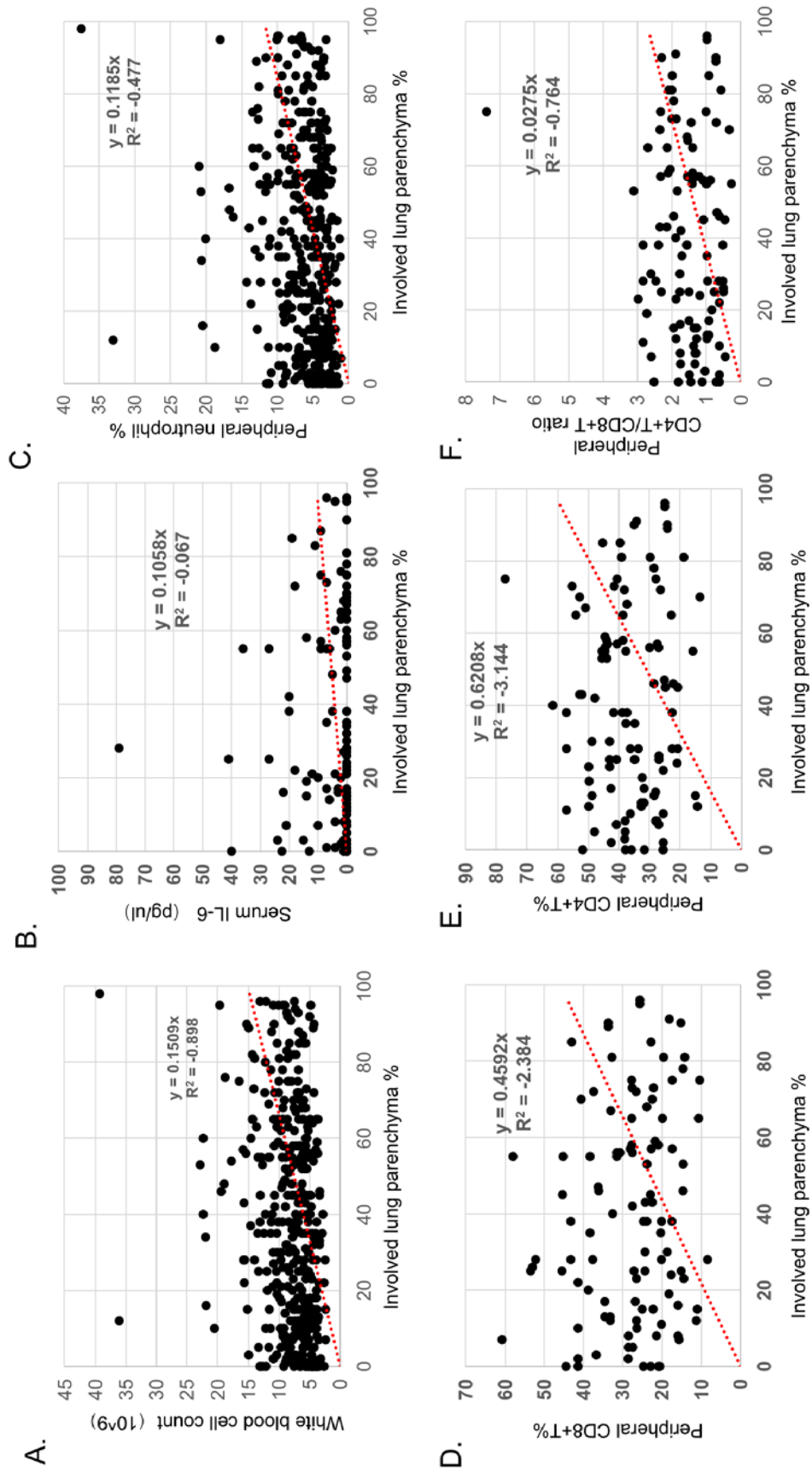
**Supplementary Figure S1.** There was no significant difference of other cell components in patients with different underlying diseases and age groups, such as white blood cell count (A), neutrophil count (B), lymphocyte count (C), neutrophil percentage (D), and lymphocyte percentages (E)



Supplementary Figure S2. Changes of lung pneumonia of individual patients with different underlying diseases over time



Supplementary Figure S3. Change over time of the lung pneumonia of individual patients with different ages



Supplemental Figure 4

Supplementary Figure S4. There was no significant correlation between involved lung pneumonia area and systematic immune cell components, such as CD4+T, CD8+T percentages and neutrophil counts