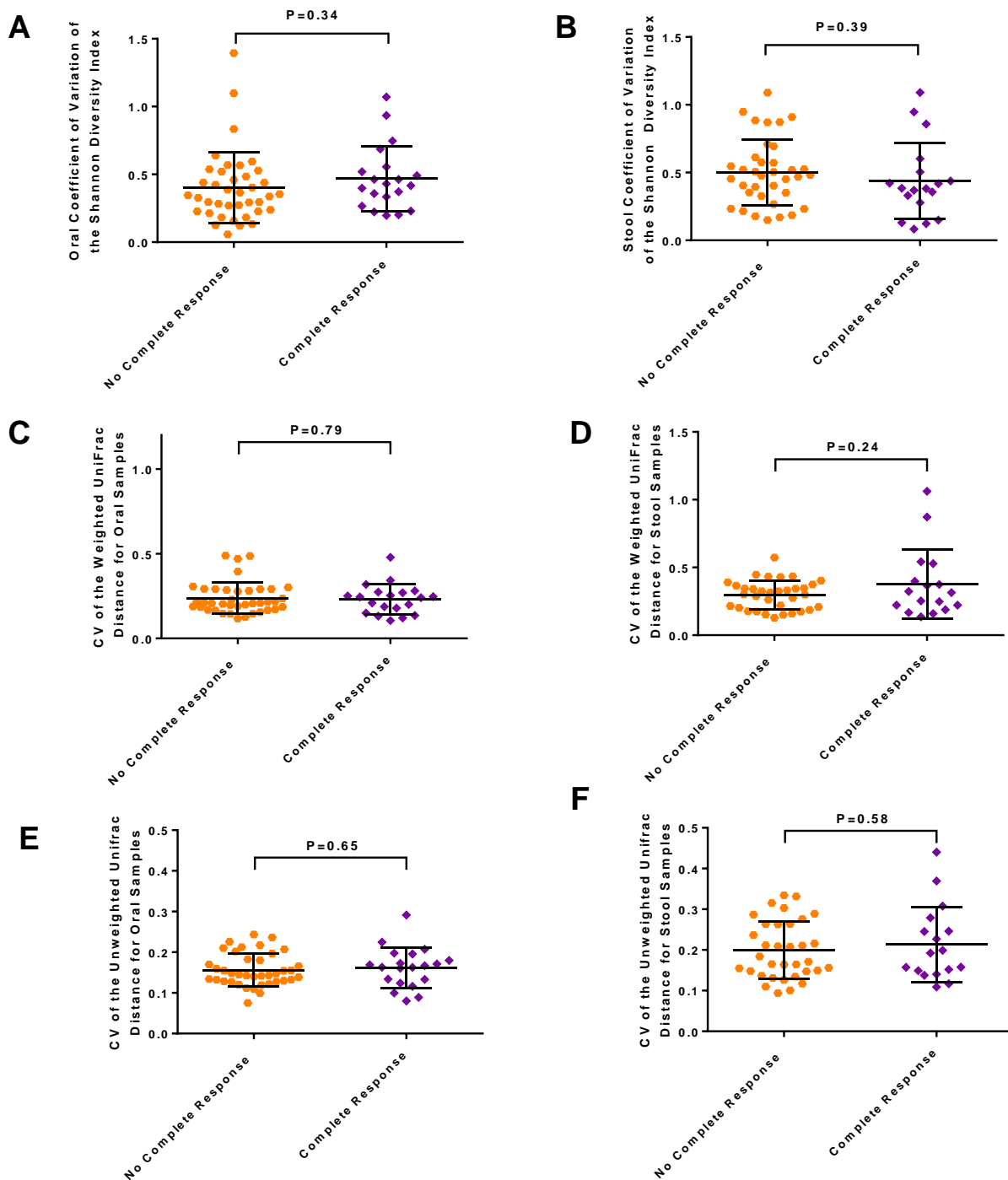


Fig. S5



Additional File 5: Fig. S5. Temporal variability of the microbiome is not associated with chemotherapeutic response. Shown are the CVs of the Shannon diversity index (A and B), weighted (C and D), and unweighted (E and F) unifrac distances for oral (A, C, E) and stool (B, D, F) samples stratified by patients who did or did not have a complete response to induction chemotherapy. In all panels the bars represent mean \pm standard deviation values, and *P* values comparing CV values among infectious outcomes were calculated using a 2-sample t-test with Welch's correction.

Additonal File 6: Table S1. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of the stool as measured by the Coefficient of Variation of the Shannon Diversity Index¹

	Estimate	Std. Error	t value	P value
Age	-0.0030511	0.0037892	-0.805	0.425
Received Piperacillin/ Tazobactam >72hr	-0.0692387	0.1034310	-0.669	0.507
Received Cefepime >72hrs	-0.0642391	0.0961470	-0.668	0.508
Received Carbapenem >72hrs	0.0910213	0.0984667	0.924	0.360
Days on All Antibiotics ^d	0.0028492	0.0032929	0.865	0.392
Days on Treatment Antibiotics	-0.0004718	0.0045104	-0.105	0.917
Number of Antibiotics Received	0.0213972	0.0229633	0.932	0.357
Non-Fludarabine High Intensity Chemotherapy	0.0771821	0.0937103	0.824	0.415
Hypomethylator based Chemotherapy	0.1747187	0.1478379	1.182	0.244
ChemoOthers	0.0870571	0.1618069	0.538	0.593

¹ Residual standard error: 0.2507 on 43 degrees of freedom, adjusted R-squared: 0.0397 and p-value: 0.3064.

Additional File 7: Table S2. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of the stool as measured by the Coefficient of Variation of the Unweighted Unifrac Distance¹

	Estimate	Std. Error	t value	P value
Age	-0.0003602	0.0021741	-0.283	0.7789
Received Piperacillin/ Tazobactam >72hr	0.0436241	0.0346360	1.260	0.2151
Received Cefepime >72hrs	0.0139268	0.0324944	0.430	0.6697
Received Carbapenem >72hrs	-0.0231621	0.0326590	-0.709	0.4823
Days on All Antibiotics ^d	0.0001982	0.0010993	0.180	0.8579
Days on Treatment Antibiotics	-0.0007410	0.0015409	-0.481	0.6332
Number of Antibiotics Received	0.0027624	0.0077760	0.355	0.7243
Non-Fludarabine High Intensity Chemotherapy	0.0165690	0.0317881	0.521	0.6051
Hypomethylator based Chemotherapy	-0.0062450	0.0493546	-0.127	0.8999
ChemoOthers	0.0390815	0.0533204	0.733	0.4679

¹ Residual standard error: 0.08237 on 40 degrees of freedom, adjusted R-squared: -0.1106, and p-value: 0.8784.

Additional File 8: Table S3. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of the stool as measured by the Coefficient of Variation of the Weighted Unifrac Distance¹

	Estimate	Std. Error	t value	P value
Age	0.0004108	0.0028111	0.149	0.885
Received Piperacillin/ Tazobactam >72hr	-0.0025742	0.0764188	-0.034	0.973
Received Cefepime >72hrs	-0.0338694	0.0716937	-0.472	0.639
Received Carbapenem >72hrs	-0.0298034	0.0720568	-0.414	0.681
Days on All Antibiotics ^d	0.0013529	0.0024254	0.558	0.580
Days on Treatment Antibiotics	-0.0025904	0.0033998	-0.762	0.451
Number of Antibiotics Received	0.0241723	0.0171565	1.409	0.167
Non-Fludarabine High Intensity Chemotherapy	0.0527559	0.0701354	0.752	0.456
Hypomethylator based Chemotherapy	-0.0556192	0.1088930	-0.511	0.612
ChemoOthers	0.0886147	0.1176429	0.753	0.456

¹ Residual standard error: 0.1817 on 40 degrees of freedom, adjusted R-squared: -0.1163, and p-value: 0.8937

Additional File 9: Table S4. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of oral samples as measured by the Coefficient of Variation of the Shannon Diversity Index¹

	Estimate	Std. Error	t value	P value
Age	0.003785	0.003515	1.077	0.2870
Received Piperacillin/ Tazobactam >72hr	-0.069843	0.097154	-0.719	0.4757
Received Cefepime >72hrs	-0.142693	0.087163	-1.637	0.1082
Received Carbapenem >72hrs	0.029032	0.089903	0.323	0.7482
Days on All Antibiotics ^d	-0.006798	0.003052	-2.227	0.0306
Days on Treatment Antibiotics	0.005466	0.004250	1.286	0.2046
Number of Antibiotics Received	0.038113	0.021953	1.736	0.0890
Non-Fludarabine High Intensity Chemotherapy	0.031210	0.087383	0.357	0.7225
Hypomethylator based Chemotherapy	-0.048031	0.140382	-0.342	0.7337
ChemoOthers	0.048609	0.140919	0.345	0.7316

¹ Residual standard error: 0.2429 on 48 degrees of freedom, adjusted R-squared: 0.08042, and p-value: 0.1661.

Additional File 10: Table S5. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of oral samples as measured by the Coefficient of Variation of the Unweighted Unifrac Distance¹

	Estimate	Std. Error	t value	P value
Age	9.131e-01	5.338e-04	0.171	0.864908
Received Piperacillin/ Tazobactam >72hr	-1.883e-02	1.475e-02	-1.276	0.207937
Received Cefepime >72hrs	7.827e-03	1.324e-02	0.591	0.557092
Received Carbapenem >72hrs	-4.519e-03	1.365e-02	-0.305	0.761985
Days on All Antibiotics ^d	1.912e-03	4.635e-04	4.125	0.000147
Days on Treatment Antibiotics	-1.239e-03	6.445e-04	-1.920	0.060774
Number of Antibiotics Received	-2.951e-03	3.334e-03	-0.885	0.380505
Non-Fludarabine High Intensity Chemotherapy	-7.372e-03	1.327e-02	-0.556	0.581112
Hypomethylator based Chemotherapy	7.928e-03	2.132e-02	0.372	0.711619
ChemoOthers	-2.641e-02	2.140e-02	-1.234	0.223152

¹ Residual standard error: 0.03689 on 48 degrees of freedom, adjusted R-squared: 0.2682, and p-value: 0.003797

Additional File 11: Table S6. Multivariable regression analyses of potential clinical factors associated with the intra-patient temporal instability of oral samples as measured by the Coefficient of Variation of the Weighted Unifrac Distance¹

	Estimate	Std. Error	t value	P value
Age	-0.0007342	0.0011572	-0.634	0.52877
Received Piperacillin/ Tazobactam >72hr	-0.0439871	0.0319822	-1.375	0.17540
Received Cefepime >72hrs	-0.0020750	0.0286934	-0.072	0.94265
Received Carbapenem >72hrs	-0.0063201	0.0295955	-0.214	0.83180
Days on All Antibiotics ^d	0.0032774	0.0010047	3.262	0.00204
Days on Treatment Antibiotics	-0.0019812	0.0013992	-1.416	0.16326
Number of Antibiotics Received	-0.0011496	0.0072269	-0.159	0.87428
Non-Fludarabine High Intensity Chemotherapy	-0.0023525	0.0287658	-0.082	0.93516
Hypomethylator based Chemotherapy	0.0627605	0.0462125	1.358	0.18079
ChemoOthers	0.0362807	0.0463895	0.782	0.43800

¹ Residual standard error: 0.07998 on 48 degrees of freedom, adjusted R-squared: 0.2218, and p-value: 0.01157

Additional File 12: TableS7. Biosample accession numbers

Accession	Sample Name
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