

Supplementary Table 1 Multiple Stepwise Regression Analysis of Influencing Factors of Physical QOL

Time	Item	Partial regression coefficient	<i>t</i>	<i>P</i>	Correlation coefficient <i>r</i>	Coefficient of determination <i>R</i> ²	Adjusted <i>R</i> ²	<i>F</i>	<i>P</i>
T0	Constant term	17.662	117.480	0.000	0.987	0.974	0.972	521.545	0.000
	depression	-3.634	-1.193	0.000					
	distress	-0.360	-2.561	0.000					
	drowsiness	-0.136	-4.684	0.000					
T1	Constant term	21.391	173.830	0.000	0.992	0.984	0.984	590.144	0.000
	amnesia	-0.611	-60.037	0.000					
T2	Constant term	15.398	26.819	0.000	0.987	0.974	0.971	333.852	0.000
	numbness	-2.472	-21.591	0.000					
T3	Constant term	26.403	60.654	0.000	0.996	0.993	0.991	60.654	0.000
	pain	-1.935	-16.132	0.000					
	vomiting	-0.408	-10.778	0.000					
	anxiety	-0.752	-12.726	0.000					
	drowsiness	-0.797	-15.232	0.000					
	amnesia	-0.490	-10.140	0.000					
T4	Constant term	20.119	100.506	0.000	0.995	0.990	0.989	89.446	0.000
	pain	-0.180	-2.618	0.011					
	sadness	-0.563	-11.489	0.000					
	nausea	-0.712	-13.508	0.000					
	shortness of	-1.138	-12.659	0.000					

	breath								
T5	Constant	24.535	33.737	0.000	0.993	0.986	0.985	104.541	0.000
	term								
	depression	-0.647	-35.303	0.000					
	shortness of								
	breath	-0.890	-12.284	0.000					
	nausea	-0.890	-30.653	0.000					
T6	Constant	22.929	26.142	0.000	0.878	0.772	0.733	20.263	0.000
	term								
	anxiety	-0.463	-4.262	0.000					
	numbness	-0.918	-6.611	0.000					
	distress	-0.927	-5.192	0.000					
	pain	-0.282	-2.650	0.011					

Notes: T0= baseline; T1= after the first chemotherapy cycle; T2= after the second chemotherapy cycle;, etc.

Supplementary Table 2 Multiple Stepwise Regression Analysis of Influencing Factors of Social/Family QOL

Time	Item	Partial regression coefficient	<i>t</i>	<i>P</i>	Correlation coefficient <i>r</i>	Coefficient of determination <i>R</i> ²	Adjusted <i>R</i> ²	<i>F</i>	<i>P</i>
T0	Constant term	20.377	58.291	0.000	0.976	0.953	0.950	119.863	0.000
	anxiety	0.734	10.359	0.000					
	depression	-0.400	-5.420	0.000					
	sleep disturbed	0.577	12.301	0.000					
T1	Constant term	21.571	127.666	0.000	0.989	0.979	0.978	161.950	0.000
	amnesia	-0.912	-53.230	0.000					
	depression	0.759	27.210	0.000					
T2	Constant term	29.463	102.496	0.000	0.999	0.999	0.999	34.929	0.000
	drowsiness	3.037	79.244	0.000					
	pain	-1.648	-101.255	0.000					
	vomiting	2.805	94.013	0.000					
	dry mouth	-2.811	-66.903	0.000					
	shortness of breath	-1.887	-39.632	0.000					
	anxiety	-0.668	-23.499	0.000					
	sleep disturbed	0.287	14.205	0.000					
	amnesia	0.124	4.005	0.000					

T3	Constant	24.542	17.810	0.000	0.720	0.518	0.492	20.041	0.000
	term								
	depression	-0.990	-5.301	0.000					
	numbness	0.991	5.419	0.000					
T4	vomiting	-0.515	-3.080	0.003					
	Constant	18.630	142.392	0.000	0.997	0.994	0.993	51.534	0.000
	term								
	vomiting	1.994	81.018	0.000					
	fatigue	-2.582	-56.485	0.000					
	pain	1.580	33.666	0.000					
	shortness of breath	-0.911	-25.723	0.000					
	dry mouth	0.859	36.706	0.000					
T5	Amnesia	-0.544	-22.815	0.003					
	Constant	26.354	26.863	0.000	0.866	0.750	0.732	20.484	0.000
	term								
	depression	-1.481	-11.969	0.000					
	sleep disturbed	0.681	2.794	0.000					
	sadness	-1.514	-7.500	0.000					
T6	pain	1.929	6.500	0.000					
	Constant	28.370	17.635	0.000	0.814	0.663	0.615	13.757	0.000
	term								
	sleep disturbed	-2.751	-7.933	0.000					
	numbness	-1.297	-4.953	0.000					
	drowsiness	1.765	5.326	0.000					
	anxiety	-0.674	-3.061	0.004					
	pain	1.024	4.003	0.000					

sadness	-0.732	-2.575	0.013
poor			
appetite	0.983	2.385	0.021

Notes: T0= baseline; T1= after the first chemotherapy cycle; T2= after the second chemotherapy cycle;, etc.

Supplementary Table 3 Multiple Stepwise Regression Analysis of Influencing Factors of Mental QOL

Time	Item	Partial regression coefficient	<i>t</i>	<i>P</i>	Correlation coefficient <i>r</i>	Coefficient of determination <i>R</i> ²	Adjusted <i>R</i> ²	<i>F</i>	<i>P</i>
T0	Constant term	30.092	75.916	0.000	0.991	0.982	0.981	129.935	0.000
	anxiety	-1.997	-27.733	0.000					
	shortness of breath	-0.611	-8.172	0.000					
	depression	0.414	7.198	0.000					
T1	Constant term	5.746	11.512	0.000	0.902	0.814	0.811	271.411	0.000
	pain	2.780	16.475	0.000					
T2	Constant term	28.407	103.594	0.000	0.990	0.981	0.978	110.033	0.000
	anxiety	-1.456	-119.113	0.000					
	pain	-0.170	-9.230	0.000					
	shortness of breath	-0.702	-20.921	0.000					
	sadness	-1.816	-75.166	0.000					
	dry mouth	-1.785	-65.324	0.000					
	distress	0.640	15.133	0.000					
	poor appetite	1.477	39.982	0.000					
	fatigue	-1.056	27.402	0.000					
T3	Constant term	24.640	31.264	0.000	0.920	0.846	0.828	48.499	0.000
	nausea	-0.737	-8.699	0.000					
	anxiety	-0.595	-4.213	0.000					

	numbness	0.305	2.875	0.006					
	sleep								
	disturbed	-0.614	-5.322	0.000					
	amnesia	0.424	3.588	0.001					
	depression	-0.231	-2.163	0.035					
T4	Constant								
	term	27.735	641.315	0.000	0.994	0.988	0.986	90.972	0.000
	anxiety	-1.557	-222.83 1	0.000					
	vomiting	-1.518	-160.78 0	0.000					
	amnesia	0.813	123.186	0.000					
	sleep								
	disturbed	-0.498	-77.968	0.000					
	numbness	0.055	4.688	0.000					
	nausea	0.983	70.843	0.000					
	drowsiness	0.583	65.287	0.000					
	poor								
	appetite	-0.592	-46.818	0.000					
	sadness	0.387	41.237	0.000					
T5	Constant								
	term	21.057	171.457	0.000	0.997	0.994	0.978	70.180	0.000
	fatigue	-1.610	-62.236	0.000					
	depression	-0.694	-40.435	0.000					
	nausea	0.897	33.827	0.000					
	dry mouth	0.667	23.227	0.000					
	shortness of								
	breath	-0.264	-12.533	0.000					
	sleep	-0.336	-9.967	0.000					

	disturbed								
T6	Constant	21.580	25.168	0.000	0.850	0.723	0.701	33.861	0.000
	term								
	anxiety	-0.935	-7.774	0.000					
	poor								
	appetite	1.203	5.925	0.000					
	amnesia	-0.906	-4.416	0.000					
	shortness of								
	breath	0.525	3.252	0.002					

Notes: T0= baseline; T1= after the first chemotherapy cycle; T2= after the second chemotherapy cycle;, etc.

Supplementary Table 4 Multiple Stepwise Regression Analysis of Influencing Factors of Functional QOL

Time	Item	Partial regression coefficient	<i>t</i>	<i>P</i>	Correlation coefficient r	Coefficient of determination R ²	Adjusted R ²	<i>F</i>	<i>P</i>
T0	Constant term	13.441	14.982	0.000	0.889	0.790	0.783	107.393	0.000
	depression	-1.456	-11.714	0.000					
	anxiety	0.861	5.801	0.000					
T1	Constant term	16.949	32.242	0.000	0.884	0.781	0.778	221.366	0.000
	pain	-2.644	-14.878	0.000					
T2	Constant term	18.516	64.951	0.000	0.997	0.995	0.994	53.038	0.000
	pain	-1.642	-61.999	0.000					
	depression	-2.421	-60.503	0.000					
	shortness of breath	-3.278	-34.811	0.000					
	anxiety	1.946	30.630	0.000					
	nausea	-0.381	-12.195	0.000					
	amnesia	-0.867	-11.091	0.000					
	fatigue	-0.272	-9.506	0.000					
T3	Constant term	22.505	16.159	0.000	0.978	0.956	0.944	84.389	0.000
	depression	-1.426	-14.704	0.000					
	pain	2.266	8.517	0.000					
	dry mouth	-1.036	-15.293	0.000					
	anxiety	-0.890	-6.182	0.000					
	vomiting	1.048	11.509	0.000					

	sleep	1.085	8.715	0.000					
	disturbed								
	shortness of								
	breath	-2.198	-13.807	0.000					
	distress	1.334	12.860	0.000					
	nausea	-0.540	-3.679	0.001					
	numbness	-0.625	-5.570	0.000					
	poor								
	appetite	0.759	5.746	0.000					
	sadness	-0.437	-2.296	0.026					
T4	Constant								
	term	9.890	92.950	0.000	0.992	0.984	0.983	66.461	0.000
	depression	-0.771	-75.922	0.000					
	sadness	1.201	64.095	0.000					
	numbness	1.439	46.362	0.000					
	distress	-1.803	-62.552	0.000					
	dry mouth	0.767	38.005	0.000					
	shortness of								
	breath	0.277	11.938	0.000					
	vomiting	-0.291	-10.371	0.000					
T5	Constant								
	term	19.698	46.759	0.000	0.963	0.927	0.921	57.168	0.000
	sadness	-1.803	-24.151	0.000					
	amnesia	-1.383	-16.991	0.000					
	nausea	0.993	13.287	0.000					
	drowsiness	-0.357	-6.007	0.000					
T6	Constant								
	term	22.530	21.179	0.000	0.928	0.861	0.838	37.085	0.000

anxiety	-1.042	-8.200	0.000
numbness	-1.289	-8.908	0.000
nausea	2.265	8.813	0.000
sleep	-1.435	-8.427	0.000
disturbed			
amnesia	2.008	8.110	0.000
distress	-0.865	-4.280	0.000
fatigue	-0.732	-3.947	0.001
vomiting	-0.602	-3.191	0.003

Notes: T0= baseline; T1= after the first chemotherapy cycle; T2= after the second chemotherapy cycle;, etc.