

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4a** Rate and composition of prescribed antibiotics by months for injuries

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	54.758	24.955	15.440	3.411	0.718	0.359	0.359	0.000	37.696
2	53.061	25.624	15.873	4.989	0.454	0.000	0.000	0.000	35.810
3	46.264	31.034	14.080	8.333	0.287	0.000	0.000	0.000	31.506
4	51.314	27.524	15.491	5.671	0.000	0.000	0.000	0.000	47.843
5	46.971	28.500	19.662	3.674	0.894	0.000	0.298	0.000	46.866
6	45.845	31.232	16.977	3.080	1.934	0.860	0.072	0.000	50.338
7	47.924	27.164	15.271	5.278	1.337	2.815	0.211	0.000	51.130
8	49.163	24.849	19.960	4.488	0.871	0.603	0.067	0.000	47.813
9	46.941	27.937	20.249	3.628	1.029	0.217	0.000	0.000	49.084
10	44.286	30.437	20.116	3.581	1.369	0.158	0.053	0.000	44.849
11	49.570	30.487	16.734	2.865	0.229	0.000	0.057	0.057	38.419
12	45.525	32.099	16.512	4.707	1.080	0.077	0.000	0.000	37.373
13	41.034	37.118	15.583	4.855	1.096	0.313	0.000	0.000	32.806
14	43.731	34.760	16.310	3.466	1.223	0.510	0.000	0.000	30.977
15	41.703	33.710	21.286	2.867	0.348	0.087	0.000	0.000	31.362
16	48.482	31.450	14.671	4.047	1.180	0.084	0.084	0.000	29.529
17	48.499	33.886	13.349	2.923	1.264	0.079	0.000	0.000	32.012
18	49.245	31.058	13.206	4.924	0.616	0.839	0.056	0.056	35.499
19	49.207	28.673	15.484	4.925	1.043	0.584	0.083	0.000	39.225
20	45.269	36.080	14.622	3.033	0.815	0.136	0.045	0.000	38.144
21	48.180	32.120	14.176	4.411	0.771	0.214	0.128	0.000	38.956
22	41.386	35.656	17.344	4.491	0.968	0.155	0.000	0.000	39.093
23	45.705	33.555	15.093	4.366	0.664	0.617	0.000	0.000	36.325
24	36.243	37.575	20.253	4.997	0.466	0.400	0.067	0.000	32.482
25	38.570	36.207	16.475	6.322	1.660	0.702	0.064	0.000	30.119

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4b** Rate and composition of prescribed antibiotics by months for oral and dental diseases

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	35.661	41.272	14.900	5.486	1.683	0.873	0.000	0.105	77.277
2	37.907	39.709	14.969	4.990	1.733	0.693	0.000	0.000	77.291
3	43.401	40.906	9.652	5.318	0.460	0.263	0.000	0.000	89.048
4	43.677	41.020	8.555	5.367	0.956	0.425	0.000	0.000	84.570
5	35.882	45.871	11.942	5.134	0.893	0.112	0.056	0.084	73.591
6	34.396	44.381	14.898	4.077	1.725	0.366	0.105	0.039	74.586
7	33.358	45.940	15.728	3.658	0.951	0.366	0.000	0.000	68.938
8	40.928	37.926	16.985	2.865	0.750	0.477	0.068	0.000	74.284
9	37.613	36.965	19.715	4.475	0.195	1.038	0.000	0.000	72.006
10	36.543	38.086	18.642	6.173	0.309	0.123	0.123	0.000	72.586
11	37.481	38.126	17.105	6.247	0.694	0.297	0.050	0.000	72.779
12	35.740	37.415	19.466	6.122	0.680	0.523	0.000	0.037	69.500
13	36.584	37.947	17.973	6.388	0.639	0.298	0.043	0.094	70.986
14	36.201	40.856	15.280	7.193	0.282	0.047	0.000	0.095	68.602
15	35.409	39.153	17.495	6.333	0.875	0.350	0.140	0.170	71.996
16	36.027	38.709	17.184	6.810	0.565	0.494	0.106	0.068	67.661
17	35.369	36.819	20.299	6.547	0.439	0.527	0.000	0.000	66.017
18	38.264	34.923	18.419	6.642	1.059	0.570	0.122	0.000	65.187
19	42.888	32.999	18.017	4.687	0.461	0.921	0.000	0.019	72.240
20	39.057	36.190	18.541	5.256	0.414	0.510	0.032	0.000	69.213
21	39.707	33.644	19.229	5.878	0.798	0.612	0.106	0.018	71.232
22	39.785	32.975	19.982	6.093	0.418	0.717	0.030	0.000	71.551
23	39.779	34.466	18.235	5.720	0.755	0.958	0.087	0.000	67.316
24	38.591	37.538	15.412	7.134	0.602	0.692	0.000	0.019	69.127
25	39.470	33.111	17.768	9.008	0.445	0.074	0.099	0.016	67.619

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4c** Rate and composition of prescribed antibiotics by months for eye infections

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	14.046	43.187	5.660	7.966	17.820	0.000	11.321	0.000	87.164
2	19.490	34.339	3.480	8.585	17.169	0.232	16.705	0.000	84.735
3	25.660	35.094	9.434	15.472	6.038	0.000	8.302	0.000	93.213
4	11.789	54.947	5.263	10.526	5.895	0.000	11.579	0.000	92.825
5	16.341	37.151	4.330	9.637	19.274	0.000	13.268	0.000	82.098
6	13.608	40.449	6.617	10.612	14.981	0.125	13.483	0.084	84.570
7	14.158	39.493	4.322	14.456	13.711	0.000	13.860	0.000	79.667
8	25.094	20.037	8.240	15.918	19.288	0.187	11.236	0.000	77.380
9	25.547	24.526	7.445	16.350	14.745	0.438	10.949	0.000	82.878
10	26.632	21.821	7.045	15.464	17.698	0.515	10.309	0.304	77.789
11	16.098	16.525	3.945	17.591	22.281	0.000	23.561	0.000	88.216
12	17.460	24.286	5.714	16.667	23.968	0.159	11.746	0.000	81.048
13	25.412	17.170	7.280	12.912	22.115	0.137	14.973	0.000	82.791
14	21.879	17.632	3.732	15.701	22.651	0.000	18.404	0.000	83.102
15	18.230	19.683	2.906	14.927	20.872	0.000	23.250	0.079	83.307
16	16.346	15.812	4.380	18.697	25.855	0.427	18.483	0.000	79.939
17	15.505	22.473	5.397	13.837	23.847	0.196	18.744	0.000	81.671
18	19.902	26.829	4.976	12.000	23.122	0.585	12.585	0.000	83.949
19	19.905	27.678	3.507	11.943	22.938	0.664	13.270	0.060	88.386
20	18.278	28.374	3.188	13.071	24.123	0.638	12.221	0.068	86.580
21	20.099	26.931	7.030	10.198	23.762	0.000	11.881	0.061	83.835
22	20.419	28.168	5.026	13.717	20.105	0.105	12.251	0.138	87.802
23	22.615	23.439	4.122	12.132	24.617	0.471	12.603	0.000	85.395
24	13.015	18.287	4.283	14.827	35.750	0.000	13.839	0.000	82.095
25	14.561	10.993	4.050	11.765	32.883	0.096	25.651	0.000	85.333

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4d** Rate and composition of prescribed antibiotics by months for respiratory diseases

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	46.604	33.929	10.199	6.705	1.761	0.723	0.075	0.005	76.682
2	47.994	32.931	10.800	6.440	1.359	0.413	0.058	0.005	78.025
3	44.963	36.972	8.042	7.760	1.299	0.882	0.080	0.000	72.746
4	39.755	43.968	6.619	7.678	1.151	0.570	0.259	0.000	61.549
5	41.275	41.618	8.082	6.637	1.453	0.570	0.343	0.021	61.576
6	42.141	39.866	8.986	6.217	1.858	0.584	0.305	0.042	62.097
7	40.952	37.617	10.230	8.234	1.680	0.823	0.430	0.034	61.257
8	45.035	35.218	9.648	7.389	1.726	0.573	0.394	0.017	62.857
9	44.106	32.494	11.779	7.449	2.947	0.824	0.389	0.012	62.731
10	45.054	31.969	11.401	8.247	2.064	1.045	0.196	0.024	66.587
11	46.253	32.884	9.337	9.322	1.484	0.545	0.151	0.025	63.813
12	44.829	33.163	9.851	9.306	1.724	0.945	0.157	0.025	60.471
13	44.549	34.593	8.642	10.098	1.271	0.636	0.133	0.079	63.450
14	45.276	33.688	8.432	10.621	1.081	0.539	0.203	0.159	65.543
15	43.184	35.646	8.698	10.199	1.351	0.519	0.298	0.105	63.517
16	45.078	33.335	8.481	10.094	1.893	0.717	0.334	0.067	62.769
17	46.636	32.191	8.872	9.567	1.802	0.635	0.261	0.035	64.044
18	46.601	32.387	9.176	9.272	1.623	0.672	0.223	0.047	64.147
19	45.718	33.157	9.731	8.156	1.763	1.056	0.386	0.033	62.792
20	46.429	32.308	9.501	8.734	1.876	0.710	0.381	0.061	62.371
21	44.782	33.982	10.171	8.647	1.325	0.613	0.444	0.036	59.351
22	44.959	34.056	9.383	9.006	1.310	0.858	0.389	0.038	60.478
23	44.448	34.498	9.030	9.726	1.311	0.662	0.275	0.051	61.153
24	45.212	32.958	8.308	11.814	0.972	0.521	0.192	0.023	60.404
25	43.221	34.391	8.439	12.147	1.134	0.360	0.289	0.018	59.696

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4e** Rate and composition of prescribed antibiotics by months for digestive diseases

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	38.477	39.067	7.041	7.477	7.237	0.598	0.094	0.009	57.219
2	41.042	39.925	9.607	3.534	5.486	0.327	0.080	0.000	57.150
3	36.868	45.771	5.892	4.019	6.533	0.812	0.105	0.000	51.124
4	31.044	52.742	4.743	3.316	7.513	0.392	0.252	0.000	43.418
5	33.200	48.886	5.869	2.724	8.479	0.602	0.210	0.029	47.391
6	29.407	49.376	6.315	3.355	9.926	1.395	0.194	0.031	50.652
7	26.759	47.461	9.392	2.858	11.696	1.433	0.371	0.030	53.890
8	30.648	44.774	8.881	2.496	11.342	1.122	0.727	0.009	52.516
9	32.600	40.444	9.432	3.319	13.106	0.506	0.594	0.000	50.433
10	34.146	41.903	8.580	5.484	8.007	1.564	0.315	0.000	51.545
11	37.259	42.531	7.089	6.324	6.193	0.341	0.227	0.036	48.370
12	35.842	42.871	7.136	6.017	7.053	0.777	0.282	0.023	44.179
13	34.484	46.714	6.409	5.491	6.049	0.540	0.252	0.060	45.251
14	33.578	46.552	5.888	5.520	6.873	0.911	0.456	0.221	43.535
15	30.408	48.152	6.004	5.280	8.547	1.280	0.312	0.017	42.322
16	31.160	47.328	6.113	5.946	8.451	0.682	0.305	0.015	41.931
17	31.973	45.940	7.094	5.657	8.398	0.740	0.176	0.022	43.967
18	31.338	47.316	6.819	5.676	8.201	0.402	0.232	0.015	44.928
19	30.165	44.766	8.181	4.125	9.976	1.934	0.846	0.007	47.231
20	29.924	43.677	6.712	4.667	12.705	1.436	0.835	0.044	47.182
21	30.856	47.073	7.171	5.440	8.075	1.056	0.304	0.025	41.806
22	34.102	43.926	7.968	5.653	7.318	0.766	0.241	0.025	42.698
23	34.841	44.207	6.535	6.749	6.619	0.834	0.214	0.000	43.548
24	36.066	42.780	7.194	8.611	4.653	0.498	0.180	0.017	40.990
25	33.404	45.502	6.707	8.764	5.043	0.439	0.116	0.026	40.833

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4f** Rate and composition of prescribed antibiotics by months for skin infections

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	42.625	40.070	8.857	6.244	1.523	0.622	0.051	0.005	61.082
2	51.775	32.199	8.366	6.346	1.069	0.163	0.071	0.008	69.681
3	42.855	41.976	8.024	5.659	0.980	0.355	0.152	0.000	57.483
4	39.698	41.289	7.478	9.964	0.736	0.159	0.676	0.000	46.662
5	41.542	35.967	10.498	9.247	1.700	0.245	0.775	0.013	50.588
6	45.611	33.655	9.951	7.182	2.515	0.443	0.604	0.022	55.035
7	39.853	34.880	12.846	8.868	2.025	0.497	1.006	0.012	49.113
8	43.757	32.891	13.225	7.123	1.643	0.422	0.939	0.000	55.251
9	43.532	28.463	16.006	7.684	2.432	1.246	0.618	0.012	57.931
10	47.709	27.050	12.840	8.450	1.710	1.917	0.291	0.020	57.553
11	47.085	31.333	10.210	9.554	1.245	0.362	0.186	0.014	51.429
12	45.150	30.874	12.746	8.114	1.771	1.116	0.215	0.008	50.795
13	44.457	34.401	10.796	8.345	0.930	0.809	0.218	0.025	54.022
14	43.070	32.052	10.833	9.906	1.415	2.245	0.195	0.128	44.879
15	43.336	32.441	10.716	10.372	1.950	0.688	0.382	0.048	42.510
16	43.871	31.153	11.952	10.172	1.909	0.578	0.271	0.040	41.684
17	44.041	30.316	13.141	9.183	2.028	0.860	0.386	0.020	44.963
18	42.676	30.427	14.056	8.813	2.844	0.394	0.727	0.028	43.978
19	38.808	35.979	13.931	6.582	2.847	0.681	1.130	0.019	45.432
20	39.238	32.639	14.717	7.854	3.382	1.035	1.046	0.042	47.906
21	40.690	32.612	13.484	8.347	3.314	0.746	0.797	0.005	46.463
22	40.593	31.803	14.725	8.256	3.028	0.737	0.848	0.005	47.608
23	41.916	33.498	12.096	7.867	3.253	0.739	0.572	0.028	47.114
24	39.490	36.562	11.639	9.628	1.846	0.376	0.435	0.010	42.520
25	40.226	35.429	11.455	9.688	2.261	0.437	0.503	0.000	41.100

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4g** Rate and composition of prescribed antibiotics by months for urogenital diseases

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	46.732	34.370	6.156	9.399	3.012	0.281	0.050	0.000	39.434
2	48.531	28.625	8.585	10.973	3.045	0.174	0.067	0.000	43.865
3	43.927	38.310	5.592	8.451	3.315	0.304	0.101	0.000	36.670
4	40.659	41.848	5.699	7.706	3.692	0.198	0.198	0.000	30.493
5	41.429	39.611	7.441	7.643	3.436	0.294	0.129	0.018	29.157
6	43.100	39.456	6.608	5.819	4.487	0.272	0.218	0.041	31.478
7	40.705	40.050	7.819	6.544	4.346	0.352	0.185	0.000	33.211
8	43.399	38.742	8.244	4.777	4.112	0.625	0.101	0.000	34.591
9	46.642	32.835	10.389	5.322	4.149	0.323	0.340	0.000	34.113
10	43.559	36.659	7.965	7.250	3.939	0.350	0.277	0.000	31.265
11	46.320	34.812	5.949	9.388	3.278	0.126	0.126	0.000	30.785
12	44.700	37.202	6.373	8.623	2.512	0.353	0.222	0.013	31.949
13	45.917	35.680	6.169	9.233	2.715	0.143	0.133	0.010	33.546
14	45.871	34.859	6.036	10.536	2.300	0.188	0.188	0.022	32.307
15	43.317	37.025	6.557	8.610	3.603	0.649	0.212	0.026	30.650
16	45.750	36.447	6.242	7.995	2.953	0.456	0.156	0.000	28.271
17	46.969	33.302	6.943	9.227	2.840	0.498	0.209	0.012	32.057
18	47.733	34.687	6.766	7.860	2.571	0.226	0.135	0.023	31.869
19	48.716	34.203	7.809	5.353	2.999	0.665	0.246	0.010	32.009
20	46.607	33.632	8.892	5.395	4.225	0.936	0.286	0.026	31.200
21	48.260	33.679	9.417	4.819	2.900	0.608	0.276	0.041	28.470
22	46.725	33.950	9.332	6.951	2.343	0.492	0.207	0.000	30.524
23	48.702	32.021	8.002	8.536	2.004	0.439	0.285	0.012	30.807
24	46.758	33.116	8.119	9.331	1.944	0.366	0.183	0.183	29.621
25	46.686	32.057	6.740	11.041	2.336	0.436	0.148	0.556	29.213

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.

Additional file 4. Rates and composition of prescribed antibiotics by months**Additional file 4h** Rate and composition of prescribed antibiotics by months for all the seven diseases

Months	ABX1	ABX2	ABX3	ABX4	ABX5	ABX6	ABX7	ABX8	All ABX rate
1	45.051	35.312	9.573	6.843	2.421	0.672	0.120	0.007	67.804
2	47.647	33.361	10.260	6.367	1.886	0.358	0.115	0.005	70.537
3	43.282	39.049	7.623	6.978	2.198	0.736	0.134	0.000	61.180
4	38.215	44.744	6.526	7.023	2.643	0.412	0.436	0.000	49.377
5	39.210	41.913	8.222	6.242	3.395	0.463	0.529	0.026	50.024
6	40.347	40.180	8.765	5.822	3.724	0.658	0.464	0.040	53.165
7	37.537	39.495	10.346	6.941	4.166	0.888	0.600	0.027	53.153
8	41.780	36.666	10.341	6.083	3.868	0.655	0.595	0.010	54.778
9	41.938	33.188	12.292	6.471	4.780	0.771	0.550	0.009	54.472
10	42.866	33.585	11.095	7.550	3.397	1.175	0.310	0.021	55.384
11	44.661	34.158	9.092	8.820	2.450	0.430	0.364	0.025	53.290
12	43.376	34.292	10.050	8.515	2.599	0.888	0.257	0.022	51.681
13	43.106	36.128	8.803	9.042	2.006	0.608	0.241	0.065	54.237
14	43.116	35.420	8.301	9.740	2.169	0.718	0.371	0.165	53.152
15	40.510	37.445	8.739	9.018	3.011	0.657	0.531	0.088	49.780
16	42.082	35.743	8.559	9.086	3.326	0.650	0.501	0.054	48.477
17	43.375	34.355	9.179	8.731	3.218	0.646	0.467	0.030	51.107
18	43.307	34.754	9.430	8.353	3.147	0.547	0.423	0.039	50.712
19	41.873	35.598	10.304	6.636	3.770	1.087	0.706	0.027	49.806
20	41.520	34.971	10.053	7.172	4.659	0.892	0.680	0.053	50.199
21	41.544	35.889	10.641	7.334	3.279	0.687	0.596	0.030	47.023
22	41.977	35.338	10.625	7.863	2.889	0.743	0.538	0.027	48.574
23	42.587	35.564	9.411	8.578	2.718	0.686	0.421	0.035	49.406
24	42.675	35.018	8.989	10.504	1.977	0.485	0.312	0.040	47.877
25	41.189	35.737	8.770	10.996	2.325	0.380	0.527	0.077	47.113

Note: ABX1=cephalosporins; ABX2= penicillin; ABX3= lincosamides; ABX4= macrolides; ABX5= aminoglycosides; ABX6= monocyclic β -lactam; ABX7= amide alcohols; ABX8= tetracyclines; All ABX=all antibiotics.