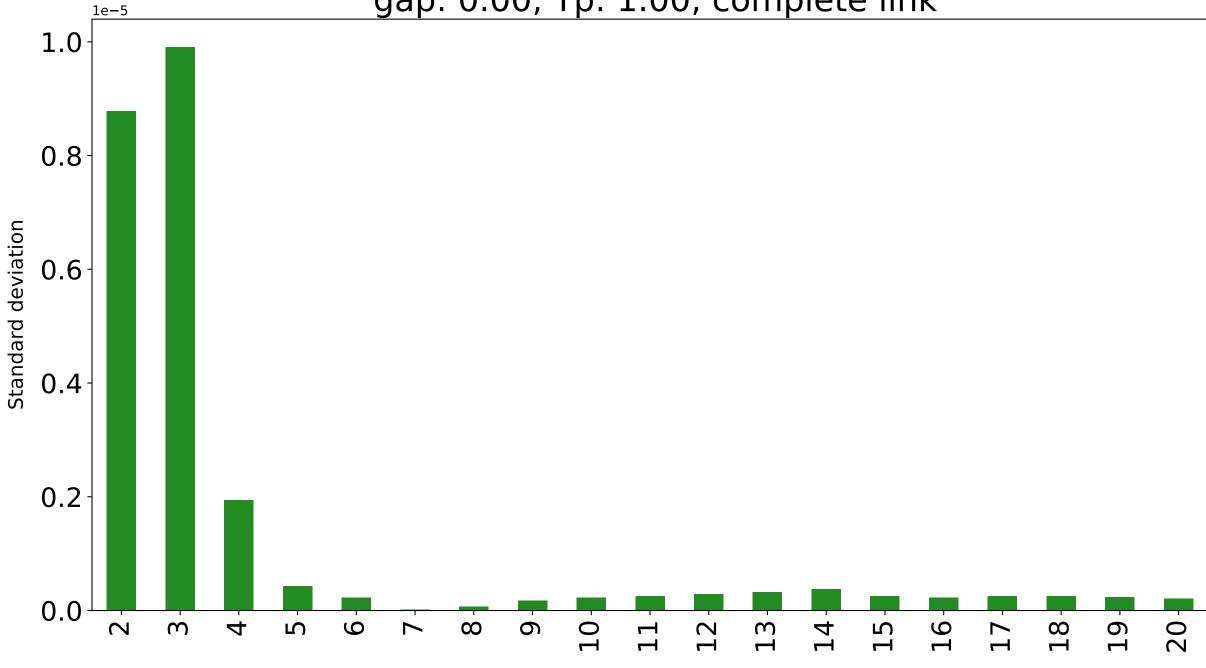
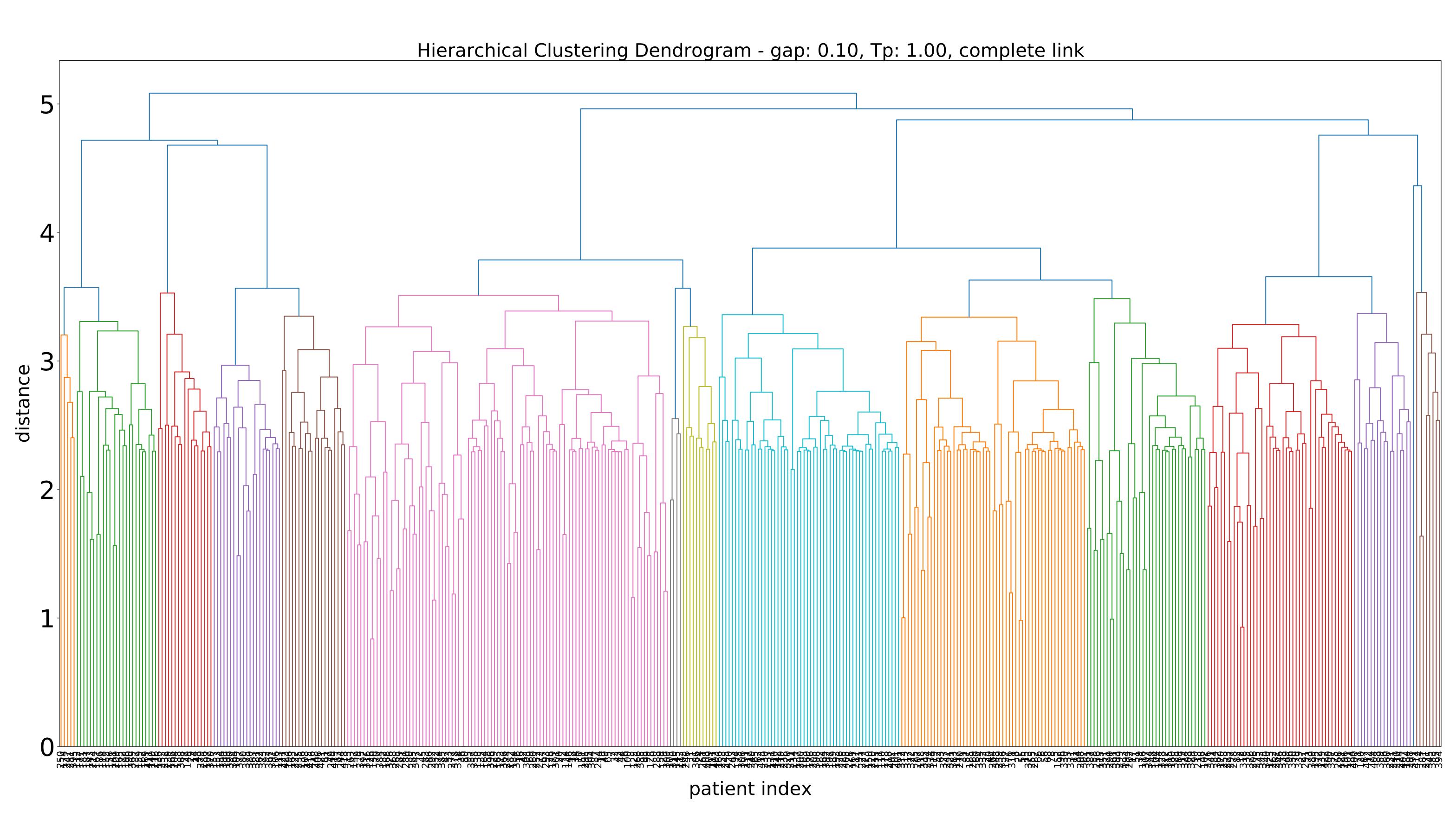


Average values of five clustering indices gap: 0.00, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99999	0.8919	0.83384	0.6769	0.0665	0.69659	0.8907	-0.10933	0.8931	0.00011	0.80249	0.77373	0.01548	0.1657	0.40407
3.0	1.0	0.90097	0.84305	0.86162	0.06623	0.82769	0.89925	-0.65693	0.90272	0.00013	0.85955	0.77834	0.02176	0.15855	0.40433
4.0	1.0	0.91418	0.84974	0.94709	0.06258	0.87813	0.91046	-1.48895	0.91797	0.00017	0.90055	0.77031	0.06742	0.17787	0.40473
5.0	1.0	0.97293	0.94947	0.97055	0.01989	0.96348	0.97279	-2.76521	0.97307	0.0002	0.97279	0.91114	0.06742	0.21051	0.40518
6.0	1.0	0.97814	0.95811	0.96685	0.01848	0.97104	0.97809	-3.38246	0.97819	0.00021	0.97893	0.92292	0.22222	0.20717	0.40582
7.0	1.0	0.99921	0.99843	0.99827	0.00086	0.99897	0.99921	-4.60729	0.99921	0.00022	0.99926	0.99689	0.22222	0.22078	0.42388
8.0	1.0	0.99681	0.99369	0.99192	0.0021	0.99587	0.99677	-5.98523	0.99685	0.00022	0.99707	0.98792	2.0	0.3139	0.51343
9.0	1.0	0.98113	0.9631	0.95412	0.00917	0.97584	0.98073	-7.21261	0.98153	0.00022	0.9831	0.93165	2.0	0.38127	0.51395
10.0	1.0	0.96714	0.93662	0.92764	0.01725	0.95844	0.96631	-8.60741	0.96796	0.00022	0.97182	0.886	2.0	0.34958	0.51466
11.0	1.0	0.95894	0.92116	0.90539	0.02338	0.94838	0.95767	-10.0284	0.96022	0.00022	0.96528	0.86039	2.0	0.3199	0.51508
12.0	1.0	0.94217	0.89021	0.86979	0.03507	0.92781	0.94002	-11.42859	0.94434	0.00022	0.95215	0.81042	2.0	0.29241	0.51532
13.0	1.0	0.92344	0.85697	0.83724	0.04645	0.90561	0.92014	-12.63989	0.92678	0.00022	0.93952	0.76051	2.0	0.2718	0.5165
14.0	1.0	0.9112	0.83734	0.82402	0.05331	0.89276	0.90683	-13.79383	0.91564	0.00023	0.93563	0.73735	2.0	0.25746	0.51829
15.0	1.0	0.84359	0.72849	0.85838	0.09576	0.81608	0.84098	-14.98347	0.84622	0.00025	0.90771	0.57821	2.0	0.2403	0.4618
16.0	1.0	0.84653	0.73463	0.83113	0.09465	0.82044	0.84517	-16.68922	0.84789	0.00026	0.91334	0.58554	2.0	0.23697	0.46253
17.0	1.0	0.84367	0.73158	0.83653	0.09813	0.8187	0.84228	-18.00128	0.84507	0.00027	0.91629	0.58378	2.0	0.22638	0.46294
18.0	1.0	0.83091	0.71362	0.7967	0.10543	0.80495	0.82952	-19.77056	0.83231	0.00027	0.91292	0.5626	2.0	0.26758	0.4673
19.0	1.0	0.81578	0.69167	0.76577	0.11255	0.78907	0.81391	-21.49862	0.81766	0.00028	0.9095	0.53685	2.0	0.25901	0.46769
20.0	1.0	0.74213	0.59179	0.72665	0.14282	0.70975	0.74032	-22.3261	0.74395	0.00028	0.88987	0.42512	2.0	0.24548	0.46806

Standard deviation of Adjusted Rand versus number of clusters gap: 0.00, Tp: 1.00, complete link

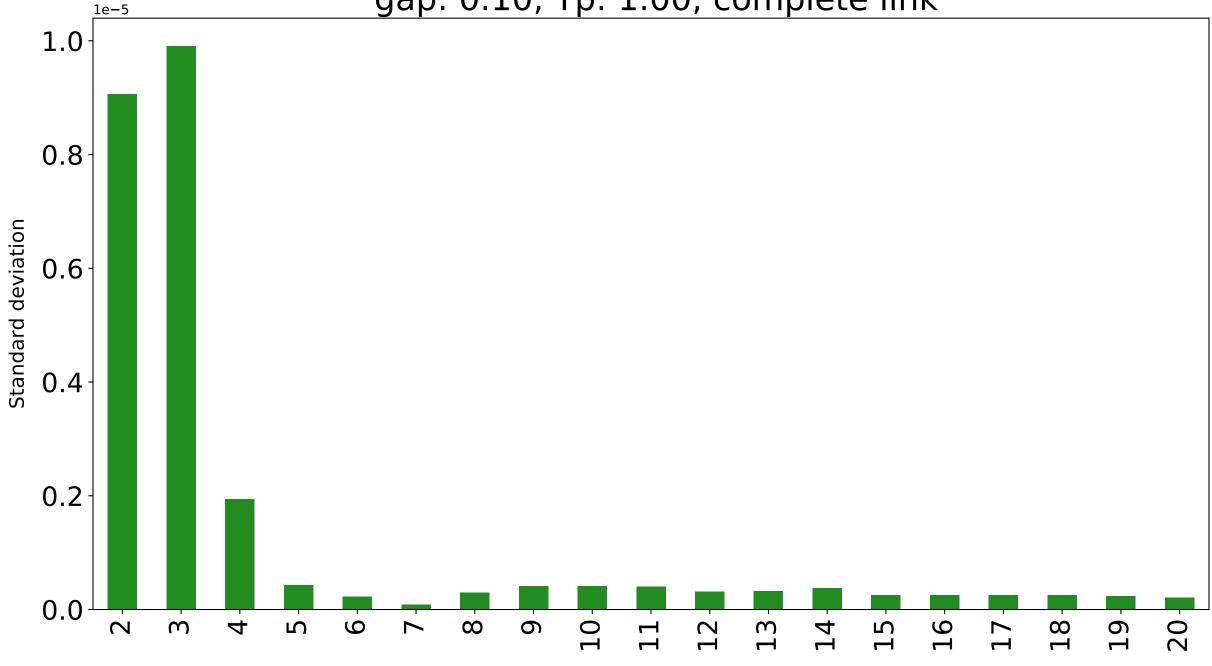


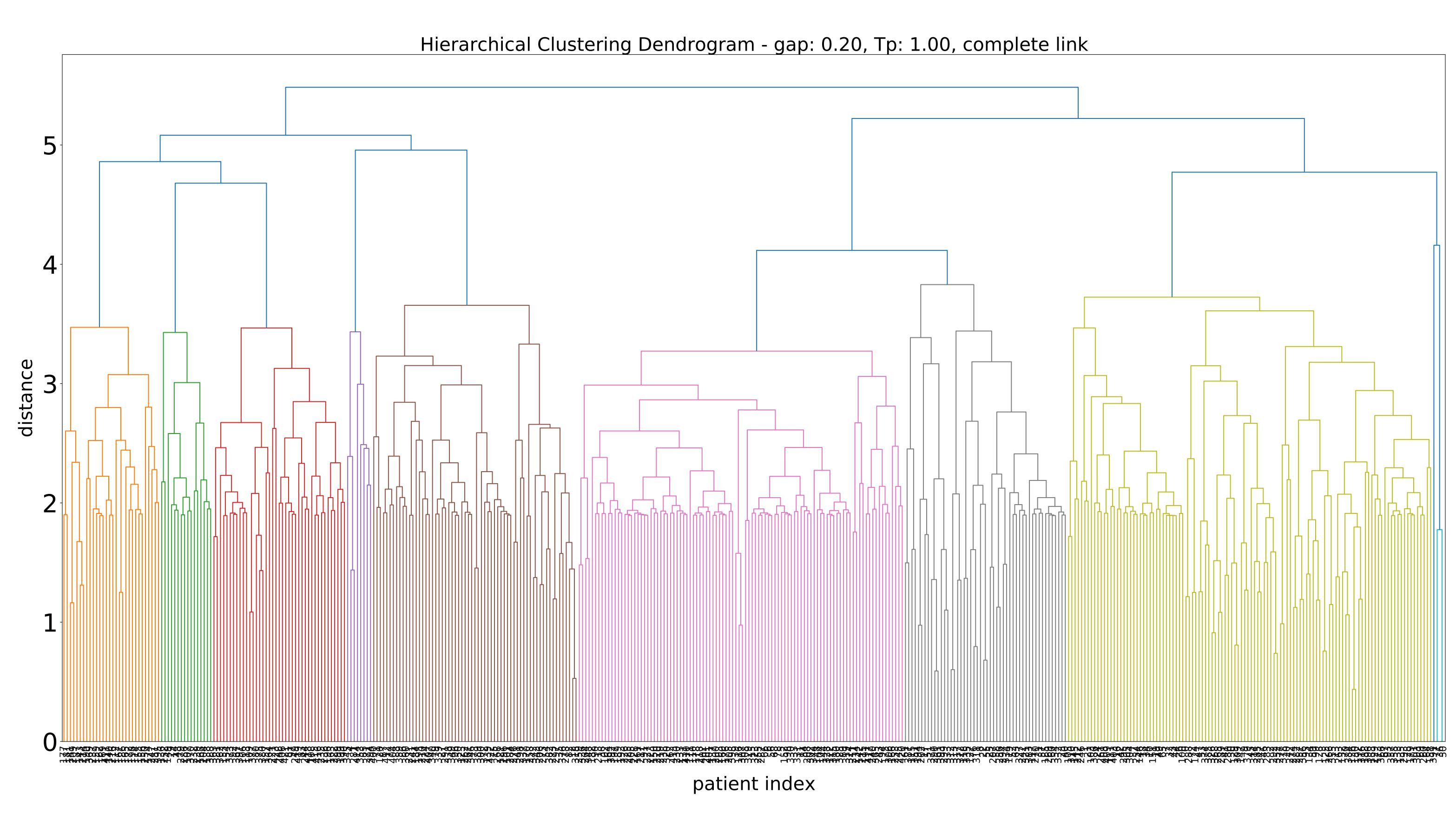


Average values of five clustering indices gap: 0.10, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99999	0.8267	0.72628	0.52719	0.12482	0.57068	0.82323	0.12998	0.8302	0.0001	0.684	0.61915	0.01364	0.11741	0.36166
3.0	1.00001	0.83533	0.74692	0.73175	0.10225	0.72714	0.83428	-0.54808	0.8364	0.00012	0.78917	0.65294	0.01818	0.18253	0.36567
4.0	1.0	0.97038	0.94445	0.97034	0.0191	0.95916	0.97014	-1.63317	0.97063	0.00019	0.9683	0.9014	0.02778	0.22094	0.37482
5.0	1.0	0.96317	0.93033	0.9378	0.03156	0.95042	0.963	-2.15269	0.96333	0.0002	0.96299	0.87488	0.22222	0.22932	0.37797
6.0	1.0	0.9723	0.94664	0.9669	0.02818	0.96343	0.97225	-3.31354	0.97236	0.00021	0.97354	0.90085	0.22222	0.24669	0.381
7.0	1.0	0.99528	0.99074	0.99467	0.00497	0.99384	0.99527	-4.56444	0.99529	0.00022	0.99561	0.98224	0.22222	0.26735	0.40861
8.0	1.0	0.98201	0.96591	0.95812	0.00995	0.97754	0.98108	-5.97072	0.98295	0.00022	0.98476	0.94255	2.0	0.3546	0.45974
9.0	1.0	0.86258	0.76102	0.87823	0.07579	0.83214	0.86004	-6.80772	0.86514	0.00022	0.90238	0.62832	2.0	0.30685	0.47097
10.0	1.0	0.83626	0.72443	0.8322	0.09208	0.80436	0.83447	-7.53818	0.83806	0.00023	0.8975	0.58414	2.0	0.27215	0.48767
11.0	1.0	0.82429	0.70818	0.80404	0.10035	0.79302	0.82263	-8.80846	0.82595	0.00024	0.89845	0.56456	2.0	0.2468	0.49123
12.0	1.0	0.80543	0.67794	0.82345	0.1216	0.77585	0.80299	-9.8118	0.80789	0.00027	0.90037	0.52297	2.0	0.22387	0.39599
13.0	1.0	0.80625	0.68023	0.8017	0.12704	0.77804	0.80477	-11.62194	0.80774	0.00028	0.90526	0.52527	2.0	0.20405	0.39656
14.0	1.0	0.79954	0.67168	0.77373	0.1338	0.77137	0.79834	-13.11149	0.80074	0.00028	0.90535	0.51596	2.0	0.19775	0.39659
15.0	1.0	0.78401	0.65068	0.75428	0.14025	0.75525	0.78267	-14.74599	0.78537	0.00028	0.90273	0.49261	2.0	0.18585	0.40022
16.0	1.0	0.76526	0.62463	0.70814	0.14716	0.73515	0.76327	-16.5366	0.76726	0.00028	0.89748	0.46387	2.0	0.23249	0.4008
17.0	1.0	0.75602	0.61086	0.679	0.15008	0.72577	0.75313	-18.33543	0.75893	0.00029	0.89586	0.44856	2.0	0.22932	0.40294
18.0	1.0	0.71697	0.56162	0.70437	0.17274	0.68693	0.71562	-19.18433	0.71834	0.00031	0.89617	0.39526	2.0	0.21846	0.40577
19.0	1.0	0.71823	0.56396	0.68847	0.17396	0.68979	0.7172	-20.66619	0.71926	0.00033	0.90128	0.39809	2.0	0.21417	0.41737
20.0	1.0	0.70237	0.54415	0.69953	0.18184	0.67515	0.70122	-21.6369	0.70354	0.00035	0.90437	0.37814	2.0	0.20604	0.4198

Standard deviation of Adjusted Rand versus number of clusters gap: 0.10, Tp: 1.00, complete link

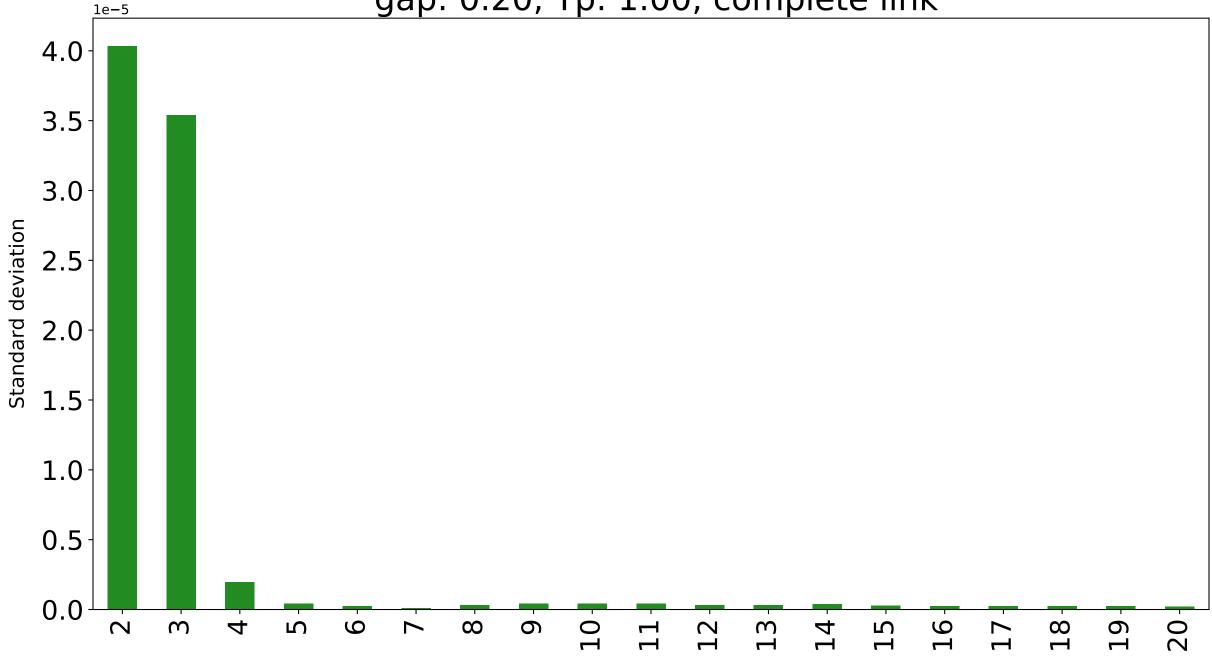




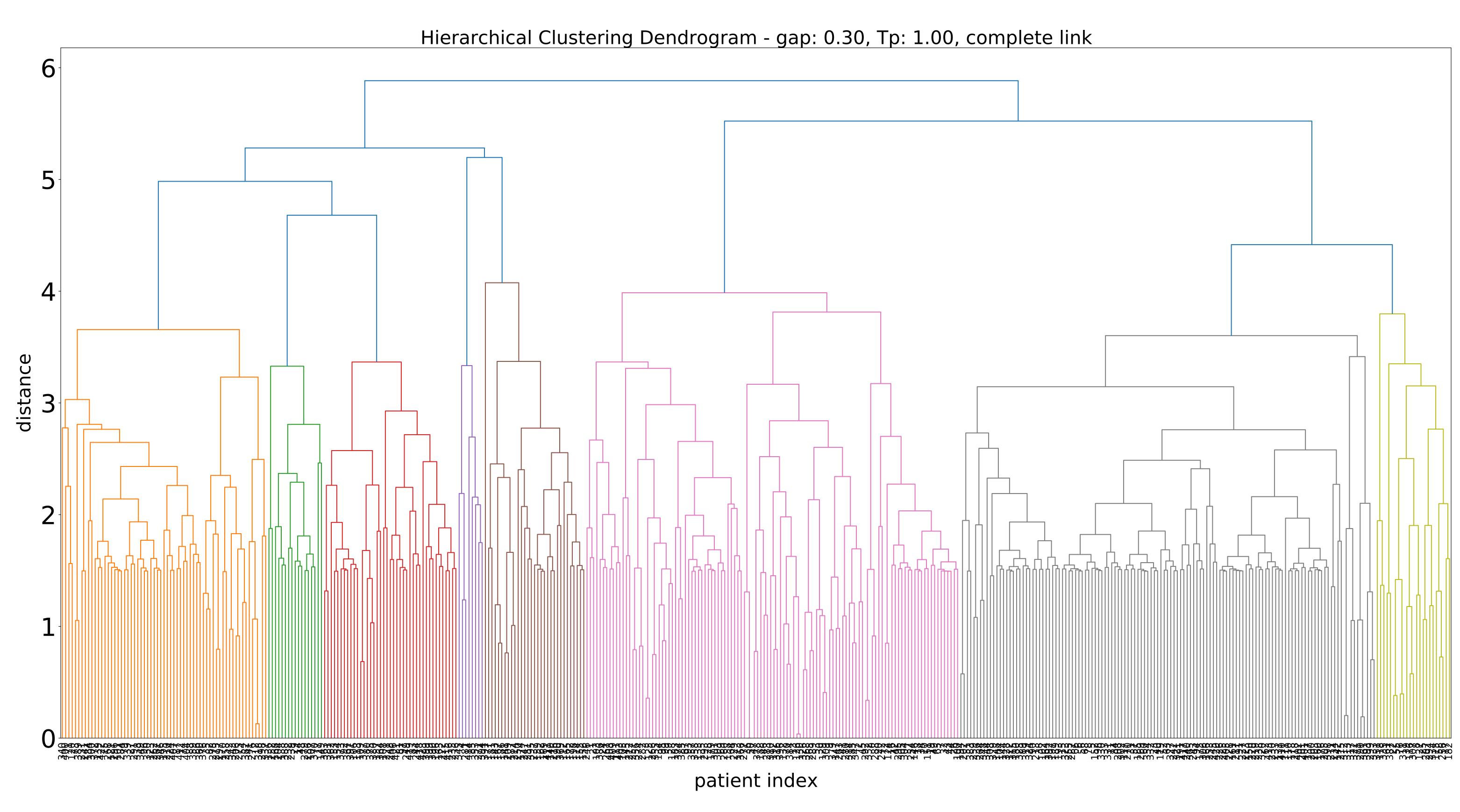
Average values of five clustering indices gap: 0.20, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99998	0.8657	0.80079	0.71264	0.10185	0.7031	0.86476	-0.01093	0.86666	0.00011	0.78682	0.73322	0.01266	0.13532	0.30313
3.0	1.00001	0.84375	0.75257	0.79824	0.10756	0.75117	0.84138	-0.5388	0.84615	0.00013	0.80339	0.65228	0.01266	0.24253	0.31151
4.0	1.0	0.96362	0.93374	0.96493	0.02323	0.94918	0.96281	-1.5931	0.96446	0.00019	0.95978	0.88828	0.02299	0.25608	0.31935
5.0	1.0	0.96425	0.93179	0.93575	0.02803	0.95189	0.96407	-2.11617	0.96442	0.0002	0.96392	0.87591	0.02299	0.27911	0.32568
6.0	1.0	0.96881	0.94042	0.95513	0.0293	0.95882	0.96877	-3.26593	0.96886	0.00021	0.97036	0.8906	0.06667	0.29737	0.33173
7.0	1.0	0.97503	0.95142	0.95535	0.02771	0.96736	0.97495	-4.53148	0.9751	0.00021	0.97675	0.90828	0.5	0.27109	0.19297
8.0	1.0	0.98319	0.96771	0.96862	0.01038	0.97863	0.98275	-5.61508	0.98363	0.00022	0.98534	0.94209	0.5	0.2883	0.21711
9.0	1.0	0.93781	0.88322	0.86307	0.03004	0.92227	0.93506	-6.97586	0.9406	0.00021	0.94794	0.80371	2.0	0.39751	0.21938
10.0	1.0	0.82571	0.70512	0.8138	0.09223	0.78834	0.82395	-7.70686	0.82748	0.00021	0.88235	0.55198	2.0	0.34619	0.23581
11.0	1.0	0.78666	0.65038	0.7362	0.11568	0.74415	0.78489	-8.76225	0.78844	0.00021	0.86616	0.48846	2.0	0.32733	0.24247
12.0	1.0	0.72835	0.57288	0.70904	0.16955	0.68335	0.72623	-9.22394	0.73048	0.00022	0.85457	0.40449	2.0	0.29153	0.247
13.0	1.0	0.70618	0.54691	0.67486	0.18391	0.6623	0.70448	-10.21231	0.7079	0.00023	0.85663	0.37964	2.0	0.26535	0.25017
14.0	1.0	0.68274	0.52011	0.66734	0.20625	0.6407	0.68099	-10.67483	0.6845	0.00024	0.86039	0.35529	2.0	0.25143	0.26014
15.0	1.0	0.66771	0.50364	0.63614	0.21927	0.62544	0.66629	-12.35688	0.66914	0.00024	0.85946	0.34053	2.0	0.23541	0.26053
16.0	1.0	0.66178	0.49699	0.62019	0.22381	0.62011	0.66026	-13.88411	0.66331	0.00025	0.86081	0.33464	2.0	0.23469	0.26054
17.0	1.0	0.65231	0.48648	0.61221	0.22667	0.61147	0.65071	-15.4894	0.65392	0.00025	0.86264	0.32538	2.0	0.21903	0.26249
18.0	1.0	0.65171	0.48577	0.60322	0.22771	0.61205	0.64998	-17.24283	0.65344	0.00026	0.86587	0.32486	2.0	0.22108	0.263
19.0	1.0	0.65321	0.48692	0.58942	0.22662	0.61491	0.65104	-18.66615	0.6554	0.00027	0.86942	0.32589	2.0	0.21578	0.26339
20.0	1.0	0.65345	0.48646	0.576	0.22597	0.61639	0.65046	-20.53773	0.65646	0.00027	0.87231	0.32569	2.0	0.21261	0.26676

Standard deviation of Adjusted Rand versus number of clusters gap: 0.20, Tp: 1.00, complete link



Number of clusters

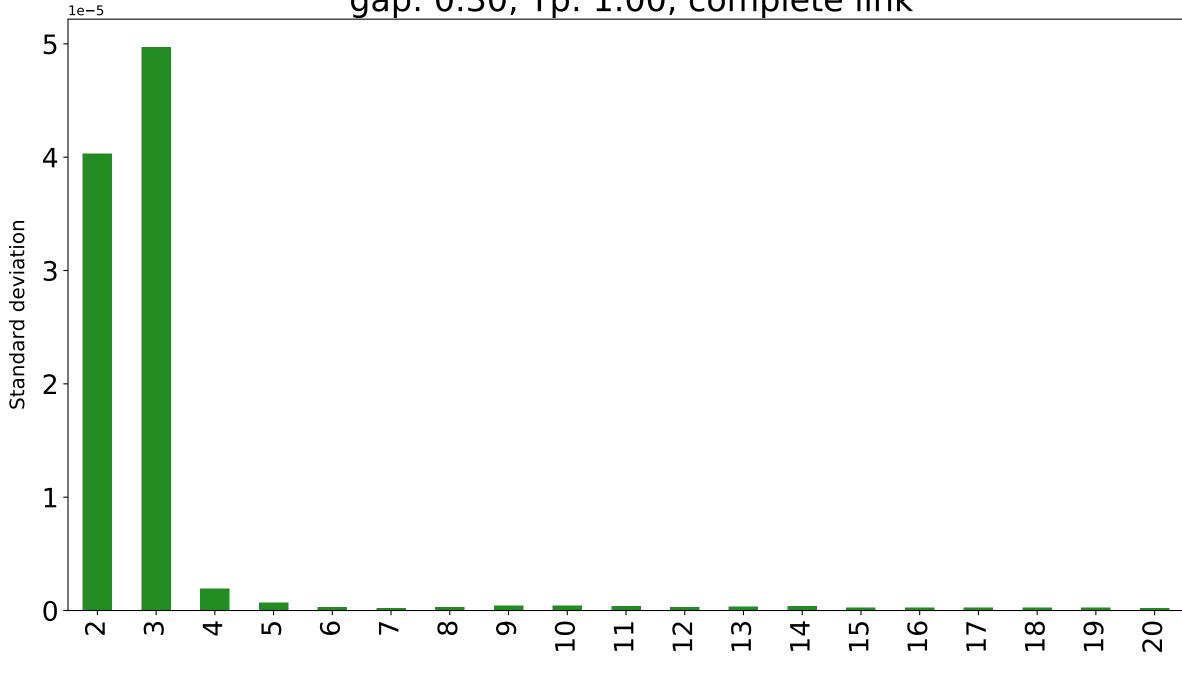


Cophenetic Correlation Coefficient: 0.8137785865921857

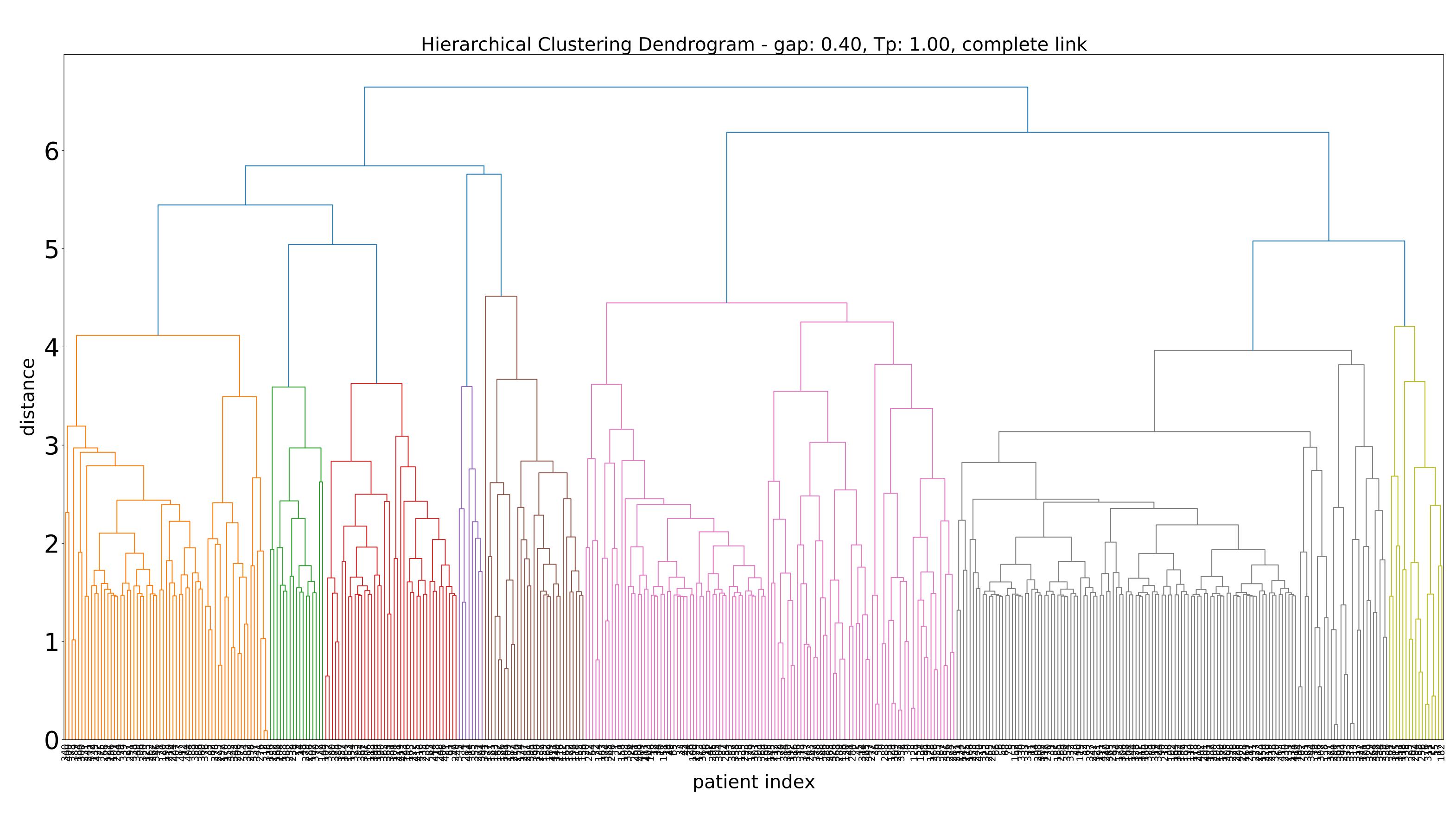
Average values of five clustering indices gap: 0.30, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99999	0.8997	0.8476	0.77498	0.07352	0.76603	0.89815	-0.08019	0.9013	0.00012	0.83257	0.79381	0.025	0.15802	0.25045
3.0	1.0	0.90466	0.8461	0.88685	0.06413	0.84698	0.90228	-0.6976	0.90709	0.00015	0.87532	0.78119	0.025	0.2803	0.26185
4.0	1.0	0.88992	0.80665	0.83617	0.09852	0.84601	0.88895	-1.25772	0.89091	0.00016	0.88263	0.69011	0.05128	0.27626	0.26615
5.0	1.0	0.90854	0.83446	0.82781	0.08035	0.87516	0.90739	-2.12232	0.9097	0.00017	0.90583	0.72567	0.06452	0.32032	0.27757
6.0	1.0	0.97274	0.94822	0.96713	0.02703	0.96394	0.97265	-3.33554	0.97282	0.00021	0.97398	0.90572	0.06452	0.33719	0.29553
7.0	1.0	0.98685	0.97492	0.98114	0.01109	0.98291	0.98677	-4.51266	0.98694	0.00022	0.98803	0.95422	0.11765	0.36656	0.31315
8.0	1.0	0.93522	0.8779	0.95886	0.03308	0.91842	0.93417	-5.26899	0.93627	0.00022	0.94657	0.78619	0.11765	0.31513	0.31024
9.0	1.0	0.92156	0.85642	0.91043	0.04221	0.9022	0.92062	-6.75004	0.9225	0.00022	0.93893	0.75713	2.0	0.38385	0.3172
10.0	1.0	0.84186	0.72553	0.86707	0.10411	0.80878	0.83945	-7.03333	0.84428	0.00022	0.8932	0.57296	2.0	0.33175	0.24456
11.0	1.0	0.82791	0.70672	0.84889	0.11526	0.79498	0.82569	-7.5154	0.83015	0.00023	0.89283	0.55205	2.0	0.3128	0.118
12.0	1.0	0.80705	0.67805	0.7899	0.1277	0.77179	0.80561	-9.0624	0.80851	0.00023	0.88617	0.51806	2.0	0.30388	0.12254
13.0	1.0	0.78559	0.65005	0.75494	0.13416	0.75008	0.78406	-10.27768	0.78712	0.00024	0.884	0.48835	2.0	0.2811	0.12438
14.0	1.0	0.79739	0.66675	0.78097	0.1404	0.76707	0.79593	-12.009	0.79886	0.00026	0.89876	0.50738	2.0	0.28022	0.13122
15.0	1.0	0.79479	0.66349	0.75447	0.14512	0.76518	0.79333	-13.84545	0.79625	0.00027	0.90062	0.50408	2.0	0.29027	0.13289
16.0	1.0	0.7879	0.65397	0.73824	0.1547	0.75831	0.78628	-15.56095	0.78953	0.00027	0.90016	0.4934	2.0	0.27465	0.13309
17.0	1.0	0.78339	0.6486	0.73693	0.1612	0.75439	0.78169	-16.15955	0.7851	0.00028	0.90158	0.4884	2.0	0.26742	0.1331
18.0	1.0	0.77924	0.6434	0.7377	0.16289	0.75083	0.77757	-17.8702	0.78093	0.00029	0.90306	0.48302	2.0	0.2507	0.13374
19.0	1.0	0.77781	0.64169	0.72518	0.16218	0.7499	0.77569	-19.40007	0.77996	0.00029	0.9041	0.48224	2.0	0.25129	0.13439
20.0	1.0	0.77618	0.63924	0.71273	0.1615	0.74869	0.77349	-20.84547	0.77891	0.00029	0.90475	0.48024	2.0	0.24956	0.1346

Standard deviation of Adjusted Rand versus number of clusters gap: 0.30, Tp: 1.00, complete link



Number of clusters

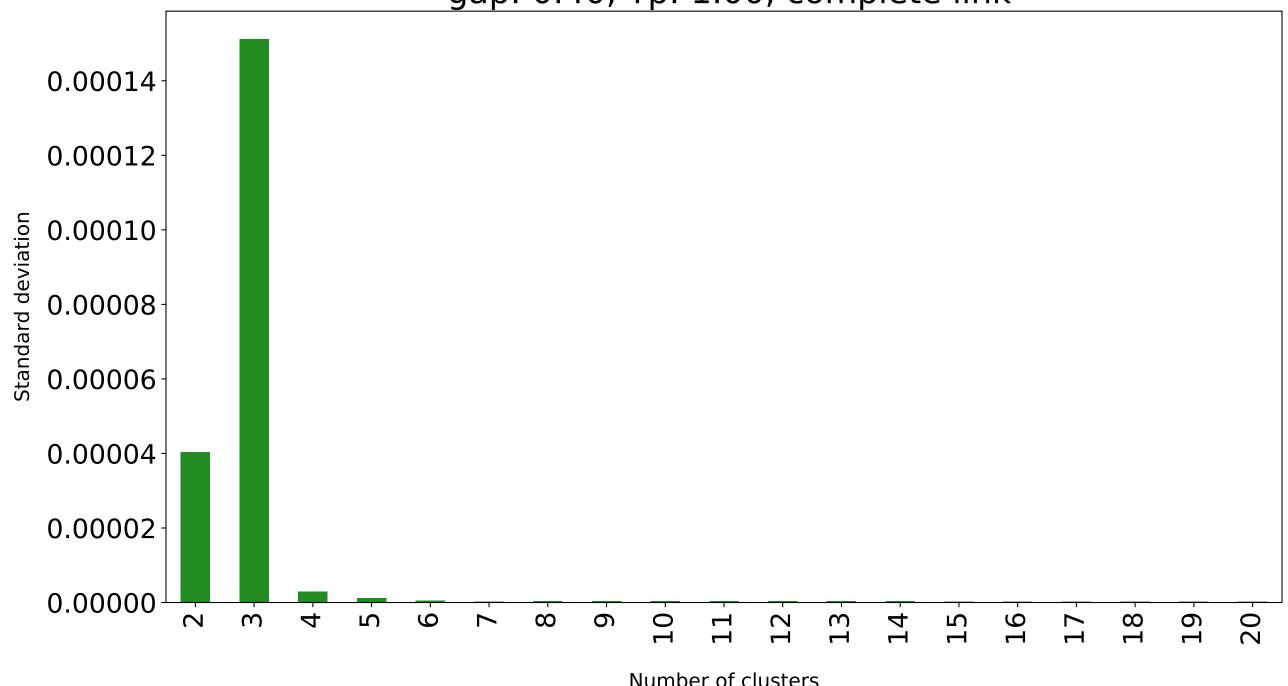


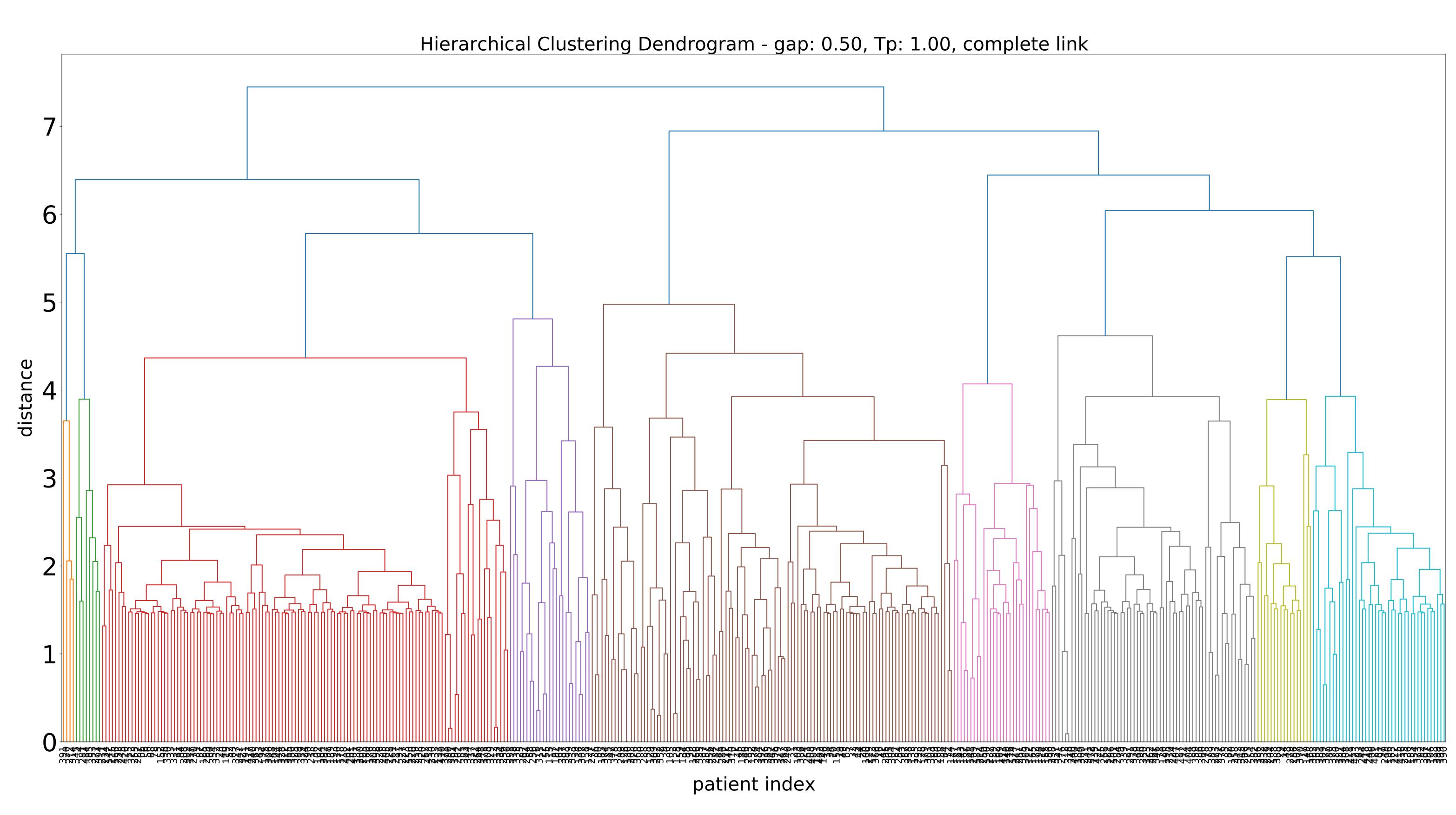
Cophenetic Correlation Coefficient: 0.8017789716899641

Average values of five clustering indices gap: 0.40, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99998	0.87195	0.80385	0.68893	0.09349	0.68498	0.86876	-0.02487	0.87527	0.00011	0.77952	0.73464	0.025	0.16531	0.24995
3.0	1.00001	0.89012	0.82277	0.87067	0.07356	0.82098	0.88658	-0.66142	0.89377	0.00014	0.85341	0.74834	0.025	0.2876	0.26451
4.0	1.0	0.86878	0.77534	0.81914	0.11191	0.81371	0.867	-1.17623	0.87059	0.00016	0.85763	0.6514	0.05128	0.28304	0.26843
5.0	1.0	0.89682	0.81676	0.81629	0.08711	0.85828	0.89556	-2.07579	0.89809	0.00017	0.89365	0.70284	0.06452	0.32865	0.2839
6.0	1.0	0.96174	0.92901	0.94836	0.02933	0.94958	0.96142	-3.29147	0.96206	0.0002	0.96408	0.87594	0.06452	0.34606	0.30436
7.0	1.0	0.93325	0.87557	0.94225	0.04163	0.91433	0.93267	-4.40002	0.93384	0.00021	0.9421	0.78306	0.06452	0.3052	0.24756
8.0	1.0	0.95055	0.90679	0.95544	0.02838	0.93734	0.95009	-5.52287	0.95102	0.00022	0.95873	0.83466	0.11765	0.33992	0.27638
9.0	1.0	0.93358	0.87648	0.90013	0.03732	0.91699	0.93256	-7.01164	0.9346	0.00022	0.94722	0.78733	2.0	0.40532	0.28061
10.0	1.0	0.87467	0.7777	0.89923	0.08379	0.84733	0.87276	-7.44116	0.87659	0.00023	0.91188	0.64306	2.0	0.36166	0.234
11.0	1.0	0.8658	0.76478	0.88336	0.09187	0.83857	0.86419	-7.88355	0.86742	0.00023	0.91178	0.62636	2.0	0.35013	0.2256
12.0	1.0	0.85186	0.74429	0.83475	0.10059	0.82304	0.85087	-9.192	0.85286	0.00024	0.90722	0.59952	2.0	0.33231	0.23066
13.0	1.0	0.83844	0.72385	0.81148	0.09985	0.80961	0.83727	-10.33281	0.83961	0.00025	0.90584	0.57356	2.0	0.30983	0.23949
14.0	1.0	0.86232	0.75836	0.88519	0.0988	0.84094	0.86056	-12.08867	0.86408	0.00028	0.92697	0.61644	2.0	0.29984	0.24839
15.0	1.0	0.87121	0.77405	0.87239	0.09584	0.85185	0.8703	-13.63644	0.87213	0.00029	0.93422	0.63816	2.0	0.31795	0.24866
16.0	1.0	0.87431	0.7792	0.85984	0.09813	0.85591	0.87357	-15.63007	0.87505	0.0003	0.93736	0.64517	2.0	0.3145	0.25876
17.0	1.0	0.87269	0.7767	0.84812	0.10425	0.85464	0.87192	-17.52918	0.87347	0.00031	0.93825	0.64193	2.0	0.30021	0.26036
18.0	1.0	0.87389	0.77807	0.83491	0.10594	0.85645	0.87285	-19.38103	0.87493	0.00031	0.93987	0.64356	2.0	0.28481	0.23398
19.0	1.0	0.87731	0.78359	0.84611	0.10351	0.86092	0.87645	-21.21696	0.87817	0.00032	0.94325	0.65066	2.0	0.26766	0.23456
20.0	1.0	0.88369	0.79407	0.85556	0.10118	0.86858	0.88288	-22.69514	0.8845	0.00033	0.94744	0.66546	2.0	0.25984	0.23608

Standard deviation of Adjusted Rand versus number of clusters gap: 0.40, Tp: 1.00, complete link



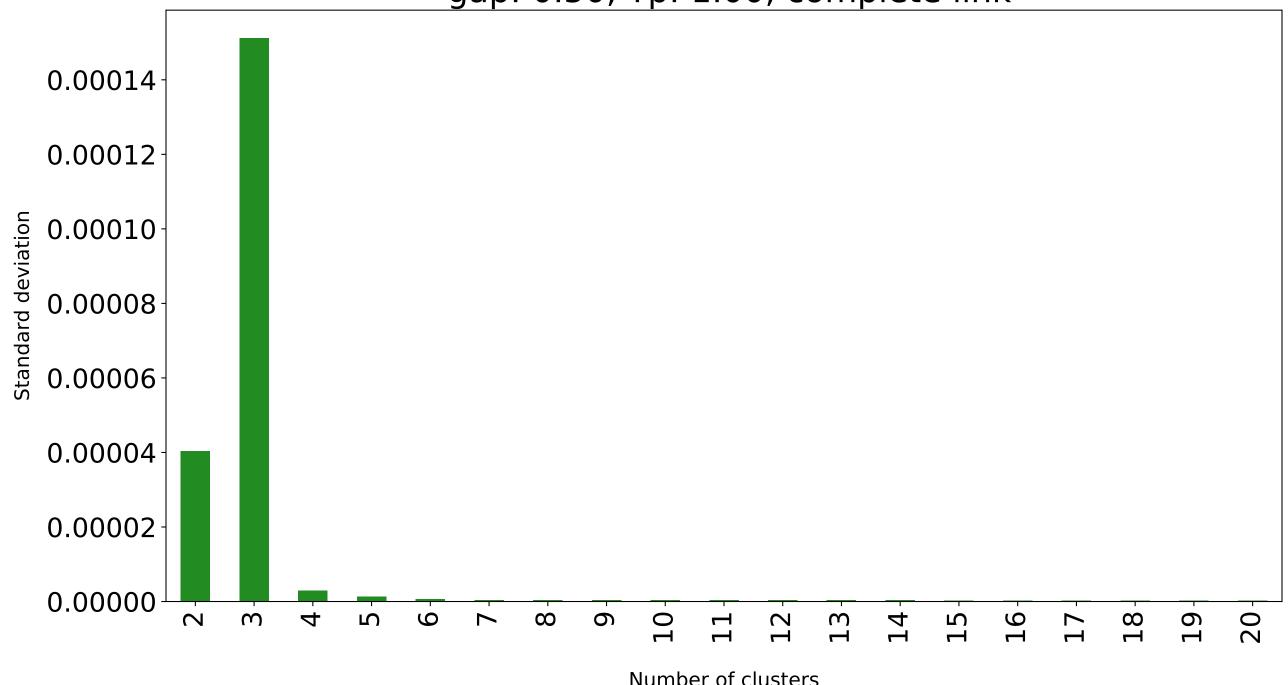


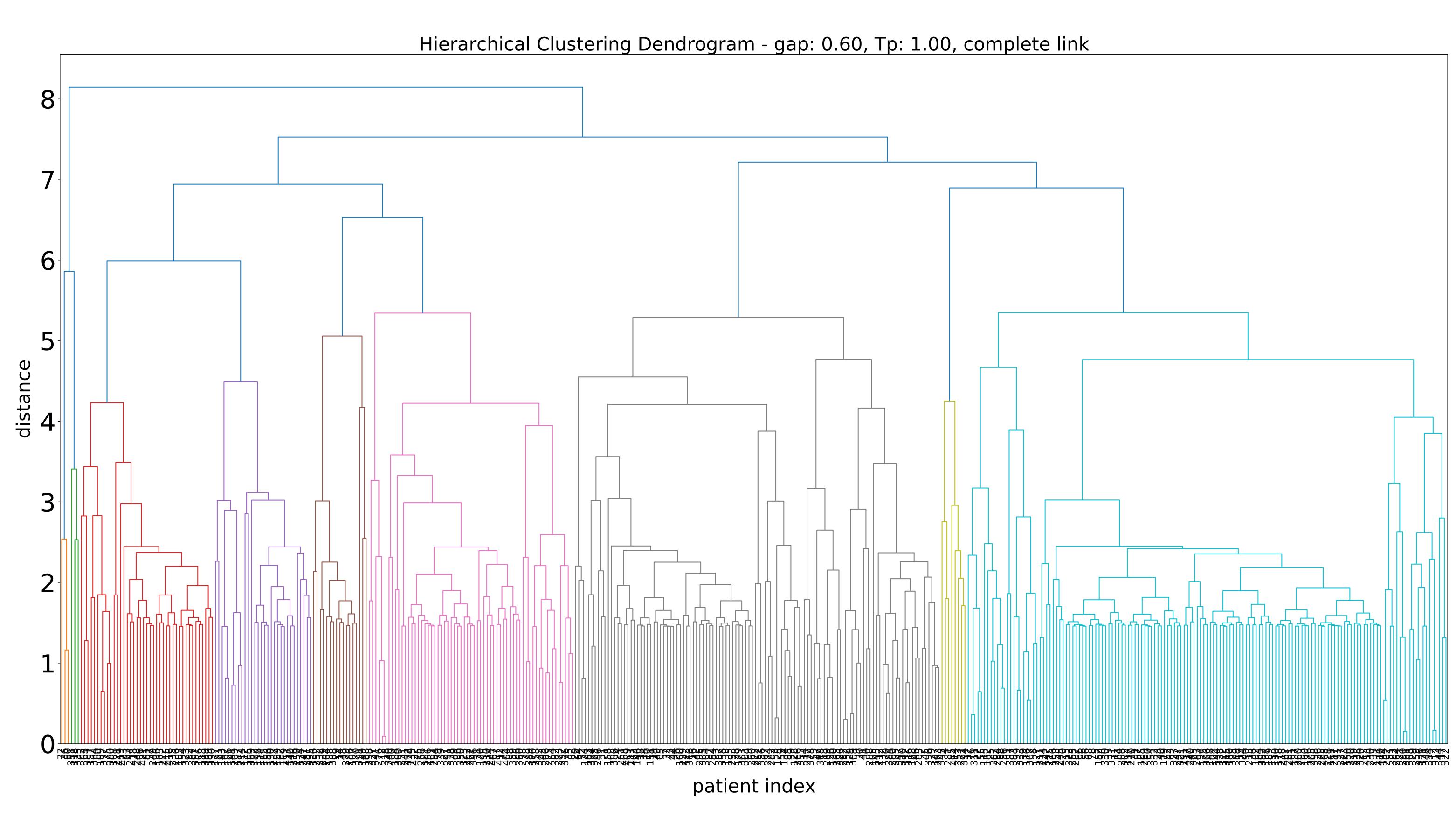
Cophenetic Correlation Coefficient: 0.7650088838074319

Average values of five clustering indices gap: 0.50, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99996	0.69112	0.54136	0.2954	0.22477	0.28303	0.68636	0.28703	0.69608	5e-05	0.49922	0.39922	0.05556	0.21687	0.15773
3.0	1.00001	0.83998	0.73695	0.81783	0.10252	0.74038	0.8346	-0.5195	0.8455	0.00013	0.78324	0.61769	0.05556	0.27598	0.17001
4.0	1.0	0.82849	0.7143	0.7444	0.12623	0.75388	0.82684	-1.32341	0.83015	0.00014	0.81382	0.57068	0.05556	0.31846	0.17137
5.0	1.0	0.86808	0.77359	0.79127	0.10705	0.81833	0.86707	-1.94321	0.86909	0.00016	0.86681	0.64601	0.83333	0.27653	0.18141
6.0	1.0	0.93221	0.877	0.9193	0.0512	0.91066	0.93175	-3.14255	0.93267	0.0002	0.93721	0.79196	0.83333	0.30452	0.18955
7.0	1.0	0.90636	0.82822	0.94046	0.06241	0.88112	0.90487	-3.93452	0.90786	0.00021	0.92142	0.71129	0.83333	0.25549	0.19733
8.0	1.0	0.91171	0.83839	0.92107	0.05706	0.88844	0.91097	-5.23779	0.91244	0.00021	0.92813	0.72619	2.0	0.25446	0.19858
9.0	1.0	0.91542	0.84511	0.91542	0.04661	0.89464	0.91464	-6.37393	0.91621	0.00022	0.93462	0.7375	2.0	0.29332	0.22016
10.0	1.0	0.895	0.81134	0.90565	0.06072	0.87152	0.89381	-7.40114	0.89621	0.00023	0.92484	0.68986	2.0	0.28688	0.22779
11.0	1.0	0.87944	0.78749	0.85426	0.0729	0.85361	0.87859	-8.88762	0.88029	0.00023	0.91784	0.65767	2.0	0.27322	0.20558
12.0	1.0	0.8576	0.75285	0.80462	0.08872	0.82882	0.85645	-9.2809	0.85875	0.00023	0.90773	0.61084	2.0	0.26162	0.21486
13.0	1.0	0.83964	0.7254	0.80612	0.10481	0.81064	0.83877	-9.89674	0.84051	0.00024	0.90574	0.57443	2.0	0.25548	0.21744
14.0	1.0	0.85231	0.7433	0.86433	0.10606	0.82905	0.85108	-11.45859	0.85354	0.00028	0.92164	0.59598	2.0	0.24257	0.22233
15.0	1.0	0.8606	0.75676	0.85655	0.10296	0.83928	0.85981	-12.62166	0.86139	0.00029	0.92811	0.61382	2.0	0.24227	0.23321
16.0	1.0	0.85681	0.75113	0.84139	0.11126	0.83558	0.85619	-14.47056	0.85742	0.00029	0.92831	0.60628	2.0	0.23245	0.24156
17.0	1.0	0.84674	0.73566	0.82652	0.12014	0.82483	0.84618	-16.10993	0.8473	0.0003	0.9258	0.586	2.0	0.21135	0.24184
18.0	1.0	0.87483	0.77785	0.89194	0.10689	0.85828	0.87382	-17.70881	0.87584	0.00033	0.94236	0.64014	2.0	0.20128	0.24185
19.0	1.0	0.89425	0.80766	0.93865	0.09801	0.88105	0.89241	-19.5507	0.8961	0.00035	0.95254	0.68142	2.0	0.19444	0.24357
20.0	1.0	0.89956	0.81697	0.9353	0.09525	0.88712	0.89815	-21.06518	0.90097	0.00036	0.95553	0.69451	2.0	0.20044	0.24389

Standard deviation of Adjusted Rand versus number of clusters gap: 0.50, Tp: 1.00, complete link

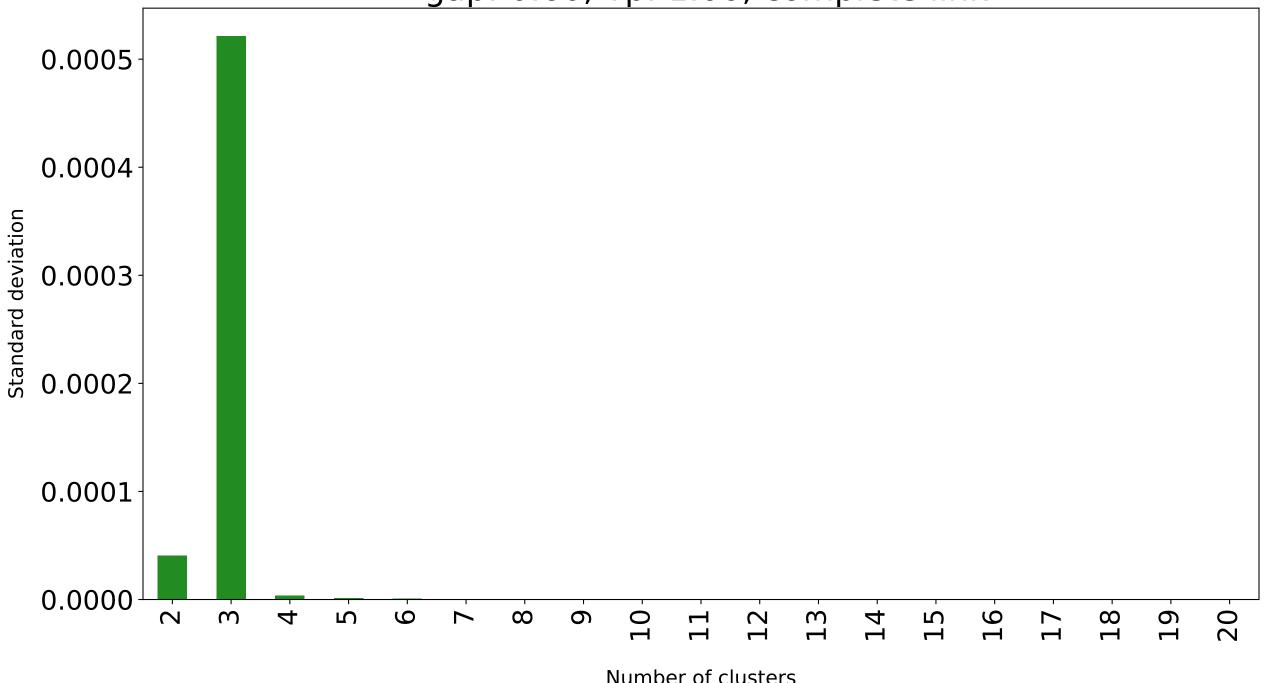


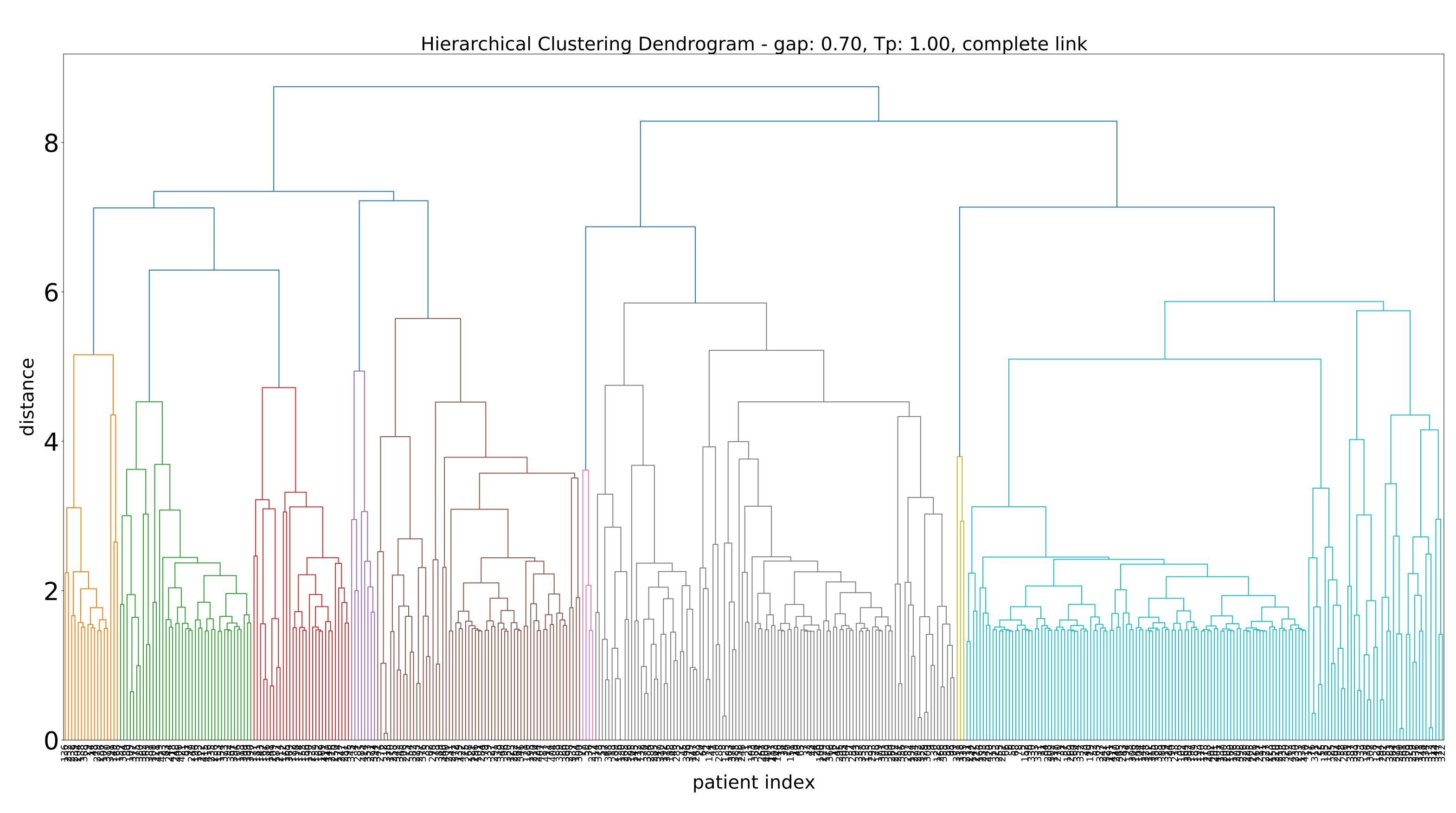


Average values of five clustering indices gap: 0.60, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99999	0.83919	0.72337	0.25113	0.10928	0.29694	0.82209	0.19089	0.85705	0.00034	0.61747	0.61358	1.07143	0.24865	0.13936
3.0	1.00002	0.68363	0.52192	0.30046	0.22736	0.38418	0.67509	-0.0935	0.69237	6e-05	0.53326	0.36865	1.07143	0.16859	0.14541
4.0	1.0	0.80659	0.68162	0.68981	0.12884	0.71102	0.80367	-1.33923	0.80954	0.00013	0.77428	0.53211	1.07143	0.23104	0.15109
5.0	1.0	0.87796	0.78763	0.83966	0.08473	0.83223	0.87684	-2.26369	0.87908	0.00017	0.87598	0.66199	1.07143	0.25453	0.15221
6.0	1.0	0.91094	0.83974	0.86514	0.07098	0.88144	0.91022	-2.92307	0.91167	0.00019	0.91525	0.73288	1.07143	0.27411	0.1607
7.0	1.0	0.94096	0.89094	0.89815	0.05091	0.92318	0.94044	-4.1432	0.94148	0.0002	0.94673	0.81154	1.07143	0.29921	0.17511
8.0	1.0	0.95146	0.90953	0.91743	0.03301	0.93791	0.95094	-5.45361	0.95199	0.00021	0.9583	0.84203	1.07143	0.33579	0.17904
9.0	1.0	0.94713	0.89985	0.8852	0.03002	0.93333	0.9457	-6.90958	0.94856	0.00022	0.95535	0.82548	1.71429	0.3722	0.19613
10.0	1.0	0.90826	0.83463	0.88573	0.05188	0.8862	0.90753	-7.82696	0.90898	0.00022	0.93095	0.7251	1.71429	0.31678	0.19635
11.0	1.0	0.87566	0.78169	0.81786	0.0714	0.84765	0.87441	-8.55124	0.87692	0.00022	0.91164	0.65142	1.71429	0.3011	0.19841
12.0	1.0	0.85418	0.74776	0.84914	0.09348	0.82586	0.85305	-9.29879	0.85531	0.00024	0.9086	0.60443	1.71429	0.28273	0.20741
13.0	1.0	0.84537	0.73434	0.80106	0.0989	0.81688	0.84419	-10.9792	0.84655	0.00024	0.90737	0.58731	2.0	0.24561	0.22005
14.0	1.0	0.84373	0.73011	0.77949	0.09986	0.81668	0.84213	-12.05413	0.84534	0.00025	0.91041	0.57988	2.0	0.23226	0.22017
15.0	1.0	0.88121	0.78922	0.8762	0.09352	0.86288	0.88048	-13.8106	0.88194	0.00029	0.93793	0.65743	2.0	0.22045	0.2247
16.0	1.0	0.88856	0.80088	0.87373	0.08947	0.87181	0.88798	-14.98971	0.88914	0.0003	0.94304	0.67289	2.0	0.22239	0.23052
17.0	1.0	0.88699	0.79837	0.87141	0.094	0.87048	0.88645	-16.18791	0.88752	0.00031	0.94367	0.66931	2.0	0.22838	0.23368
18.0	1.0	0.88145	0.78962	0.85723	0.10041	0.86463	0.88093	-18.04879	0.88197	0.00031	0.9425	0.65729	2.0	0.22313	0.24679
19.0	1.0	0.8755	0.77945	0.83574	0.10453	0.8582	0.87477	-19.39448	0.87624	0.00032	0.94052	0.64262	2.0	0.2295	0.24807
20.0	1.0	0.87171	0.77339	0.83224	0.10681	0.85442	0.87102	-21.13496	0.8724	0.00032	0.94039	0.63414	2.0	0.2127	0.24835

Standard deviation of Adjusted Rand versus number of clusters gap: 0.60, Tp: 1.00, complete link



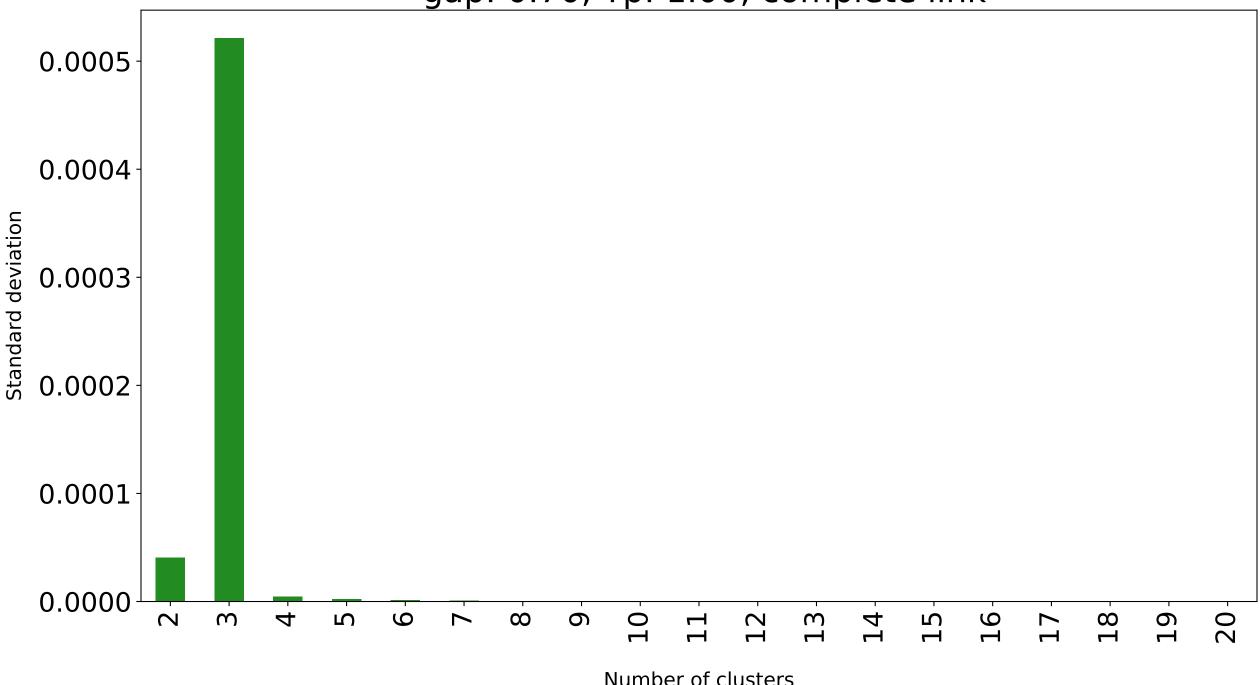


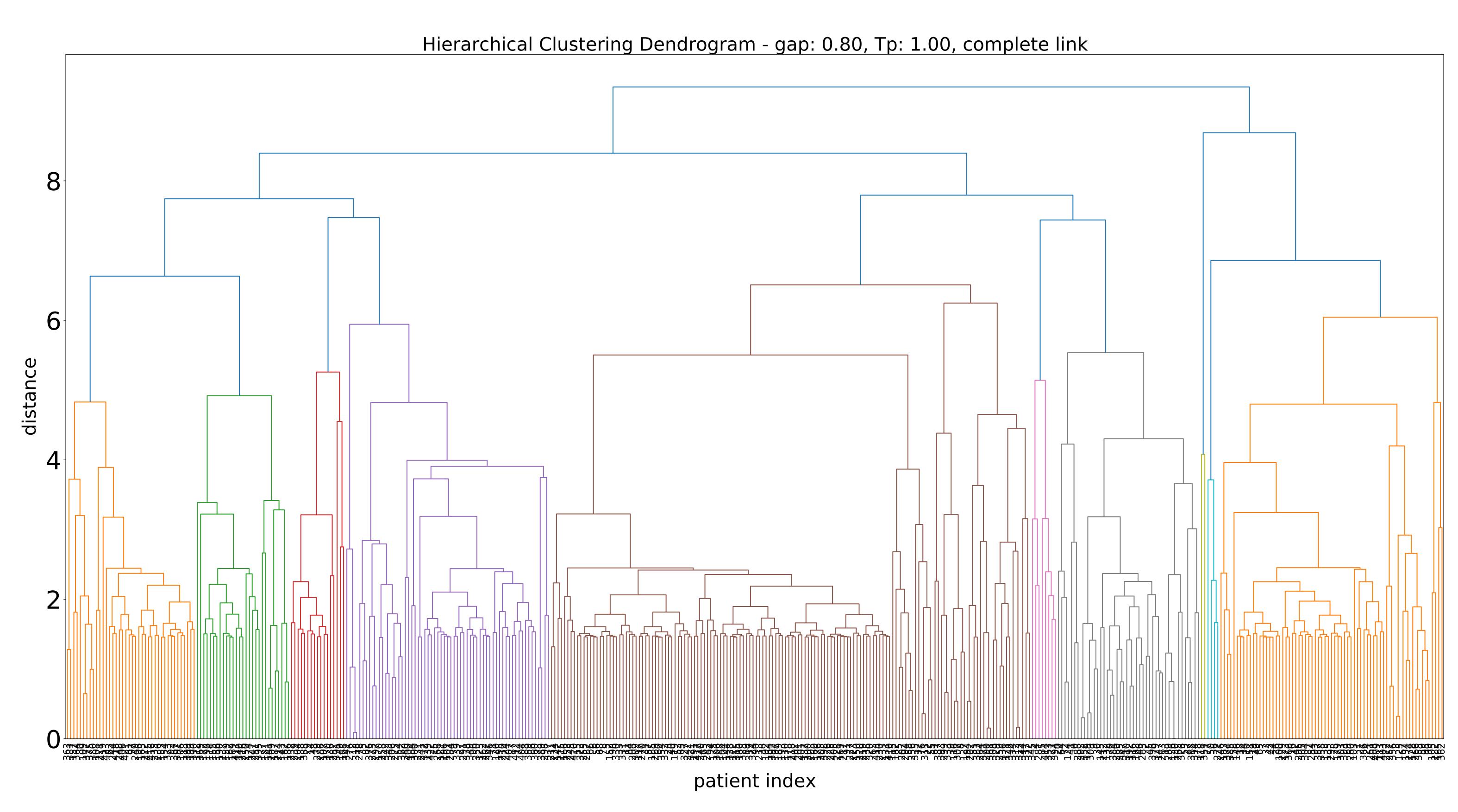
Cophenetic Correlation Coefficient: 0.7418306069198484

Average values of five clustering indices gap: 0.70, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99997	0.71596	0.56359	0.18331	0.20467	0.2245	0.70431	0.24614	0.72809	3e-05	0.48568	0.42538	0.01348	0.16659	0.22281
3.0	1.00002	0.8024	0.67801	0.83858	0.1335	0.66506	0.78864	-0.48148	0.8167	0.00011	0.7079	0.5591	0.01348	0.28212	0.25134
4.0	1.0	0.82377	0.70912	0.86347	0.10969	0.74546	0.81607	-1.20747	0.8317	0.00014	0.79733	0.58374	0.02435	0.3001	0.25568
5.0	1.0	0.87065	0.78212	0.85449	0.08082	0.82024	0.86819	-1.81625	0.87314	0.00017	0.86596	0.66958	0.02435	0.32062	0.25874
6.0	1.0	0.89828	0.82222	0.84334	0.06897	0.86311	0.89698	-3.05051	0.89959	0.00018	0.9015	0.71493	1.71429	0.3137	0.16131
7.0	1.0	0.91738	0.8511	0.85649	0.06314	0.89232	0.91649	-4.2286	0.91826	0.0002	0.92581	0.75187	1.71429	0.32841	0.16722
8.0	1.0	0.91014	0.83688	0.83082	0.07091	0.88459	0.90857	-5.32801	0.91171	0.0002	0.92187	0.72868	1.71429	0.32878	0.18265
9.0	1.0	0.92477	0.86206	0.8518	0.04412	0.90529	0.92289	-6.78758	0.92666	0.00021	0.93802	0.76959	1.71429	0.35734	0.19573
10.0	1.0	0.87261	0.77785	0.84996	0.07071	0.84371	0.87173	-7.72738	0.8735	0.00022	0.90963	0.64709	1.71429	0.30672	0.1964
11.0	1.0	0.84332	0.72967	0.8605	0.09383	0.81239	0.84152	-8.38537	0.84514	0.00023	0.89987	0.58014	1.71429	0.28404	0.19994
12.0	1.0	0.84392	0.73184	0.83493	0.09651	0.81435	0.84285	-9.53493	0.84499	0.00024	0.90446	0.58303	1.71429	0.26842	0.20363
13.0	1.0	0.83948	0.72504	0.82991	0.10155	0.81112	0.83854	-10.62694	0.84043	0.00025	0.90734	0.57378	1.71429	0.26292	0.22025
14.0	1.0	0.84139	0.72725	0.82543	0.10274	0.81493	0.8405	-11.07921	0.84229	0.00026	0.91251	0.57535	1.71429	0.26023	0.22277
15.0	1.0	0.84242	0.72863	0.80715	0.10435	0.81687	0.84169	-12.84693	0.84315	0.00027	0.91522	0.57646	2.0	0.23076	0.22532
16.0	1.0	0.87975	0.7867	0.88229	0.09591	0.86182	0.87905	-14.53328	0.88045	0.0003	0.93899	0.65348	2.0	0.22692	0.23264
17.0	1.0	0.87812	0.78419	0.86661	0.09762	0.86024	0.87753	-15.93487	0.8787	0.0003	0.93915	0.64984	2.0	0.23526	0.24197
18.0	1.0	0.8766	0.78172	0.86096	0.09855	0.859	0.87604	-17.00204	0.87715	0.00031	0.9399	0.64623	2.0	0.22636	0.24355
19.0	1.0	0.87593	0.78044	0.85493	0.09908	0.85871	0.87538	-18.95257	0.87648	0.00032	0.94094	0.64395	2.0	0.2236	0.25372
20.0	1.0	0.87764	0.78312	0.85634	0.0975	0.86123	0.87721	-20.78945	0.87808	0.00033	0.94349	0.64719	2.0	0.20793	0.25381

Standard deviation of Adjusted Rand versus number of clusters gap: 0.70, Tp: 1.00, complete link



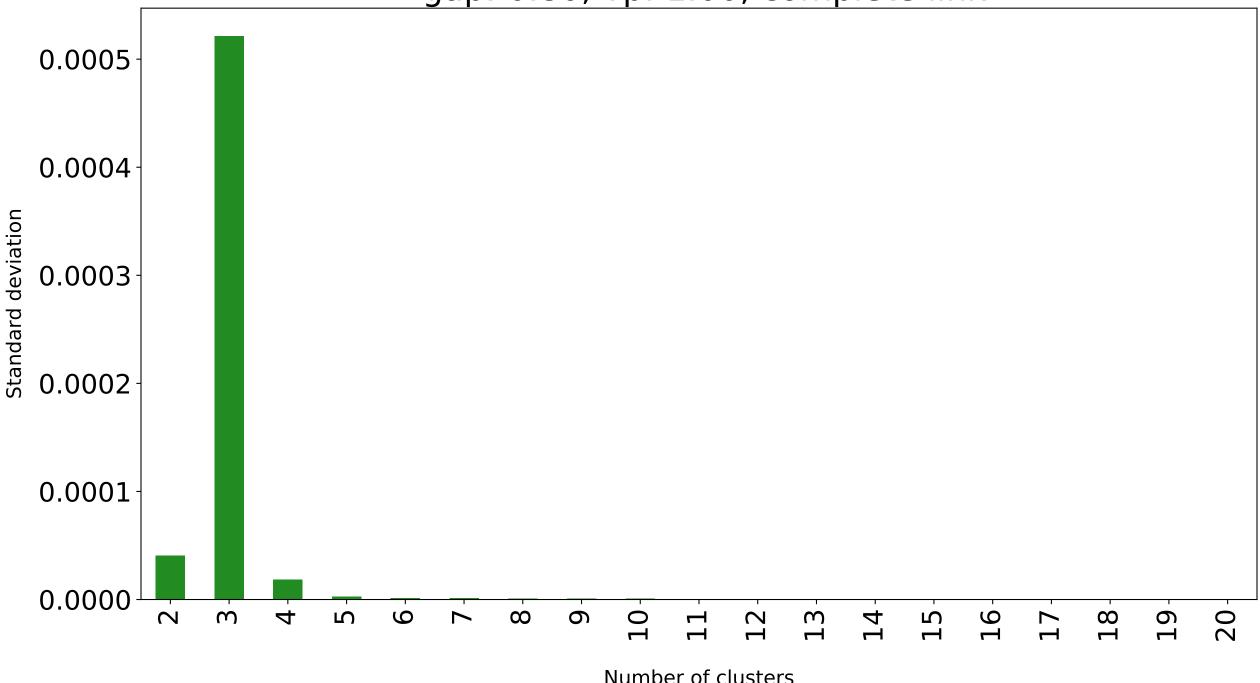


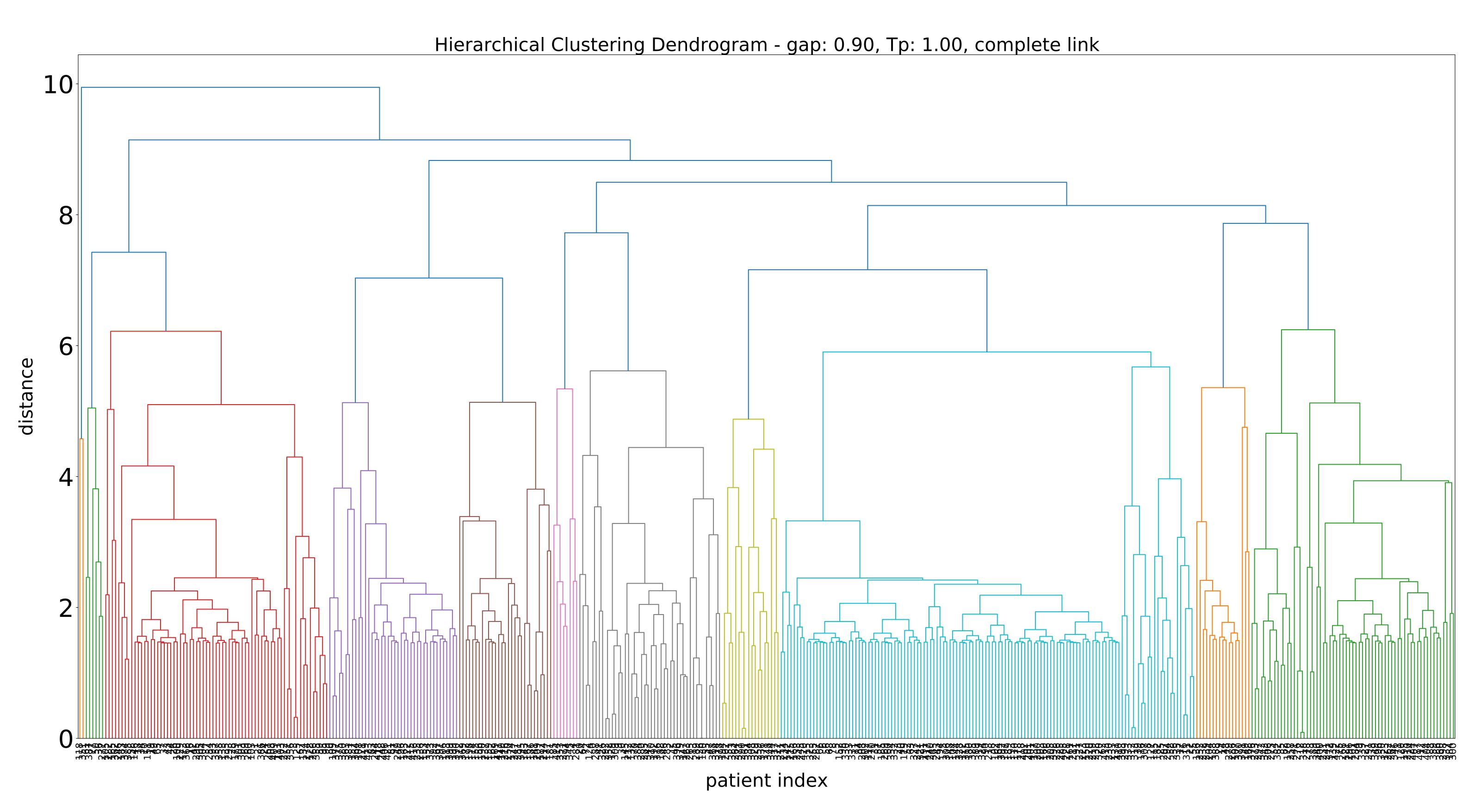
Cophenetic Correlation Coefficient: 0.6727003867708636

Average values of five clustering indices gap: 0.80, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	0.99999	0.76662	0.62086	0.17732	0.14681	0.08569	0.75983	0.29607	0.77348	3e-05	0.48937	0.45934	0.11429	0.21397	0.18006
3.0	0.99997	0.72102	0.55941	0.22265	0.19286	0.32472	0.70781	0.17749	0.73482	6e-05	0.49356	0.40054	1.92857	0.28396	0.18633
4.0	1.00001	0.61822	0.45189	0.37658	0.26453	0.39272	0.61563	-0.32001	0.62084	7e-05	0.56094	0.29822	1.92857	0.24338	0.20073
5.0	1.0	0.69416	0.53829	0.55877	0.21481	0.56826	0.69223	-1.22779	0.69612	0.00011	0.69984	0.3771	1.92857	0.22094	0.20205
6.0	1.0	0.76049	0.62117	0.72827	0.16487	0.68402	0.7585	-2.35486	0.7625	0.00015	0.79295	0.46188	1.92857	0.24082	0.20938
7.0	1.0	0.79702	0.67177	0.7712	0.13886	0.73783	0.79581	-3.57842	0.79824	0.00017	0.83378	0.51942	1.92857	0.27936	0.21036
8.0	1.0	0.80298	0.68012	0.76181	0.1333	0.74846	0.80215	-4.23792	0.80382	0.00018	0.84455	0.52875	1.92857	0.29241	0.22816
9.0	1.0	0.801	0.67609	0.73837	0.13536	0.74888	0.80006	-5.39137	0.80194	0.00018	0.84871	0.52282	1.92857	0.29058	0.23591
10.0	1.0	0.8237	0.70764	0.76655	0.10282	0.7814	0.82271	-6.93662	0.8247	0.0002	0.87303	0.56007	1.92857	0.31947	0.2404
11.0	1.0	0.81113	0.68365	0.8308	0.11293	0.77385	0.80897	-8.13954	0.81331	0.00022	0.88068	0.52618	1.92857	0.27902	0.25045
12.0	1.0	0.81864	0.69526	0.81627	0.10834	0.78438	0.81741	-9.31712	0.81988	0.00023	0.89011	0.53942	1.92857	0.26638	0.25499
13.0	1.0	0.82928	0.7104	0.80915	0.10581	0.79852	0.82832	-10.98636	0.83024	0.00024	0.9003	0.55645	1.92857	0.23918	0.21653
14.0	1.0	0.84143	0.72808	0.80315	0.10263	0.81418	0.84057	-12.06017	0.84229	0.00026	0.91063	0.5776	1.92857	0.25311	0.2324
15.0	1.0	0.84969	0.74005	0.80278	0.10024	0.82488	0.8488	-12.67173	0.85057	0.00027	0.91771	0.59207	1.92857	0.25281	0.23385
16.0	1.0	0.89354	0.8095	0.89232	0.08942	0.87743	0.89296	-14.37337	0.89413	0.0003	0.9452	0.68607	1.92857	0.2504	0.24474
17.0	1.0	0.89274	0.80816	0.88117	0.0934	0.87677	0.89223	-16.18018	0.89325	0.00031	0.94562	0.68376	2.0	0.22714	0.2504
18.0	1.0	0.88764	0.79977	0.86348	0.09769	0.87118	0.88707	-17.53929	0.88821	0.00031	0.94386	0.67188	2.0	0.23737	0.26166
19.0	1.0	0.88379	0.79353	0.85275	0.10116	0.86721	0.88319	-19.4167	0.88438	0.00031	0.94328	0.66314	2.0	0.23461	0.26648
20.0	1.0	0.87581	0.78065	0.84134	0.10597	0.85867	0.8752	-21.09522	0.87643	0.00032	0.94114	0.64513	2.0	0.22163	0.2667

Standard deviation of Adjusted Rand versus number of clusters gap: 0.80, Tp: 1.00, complete link

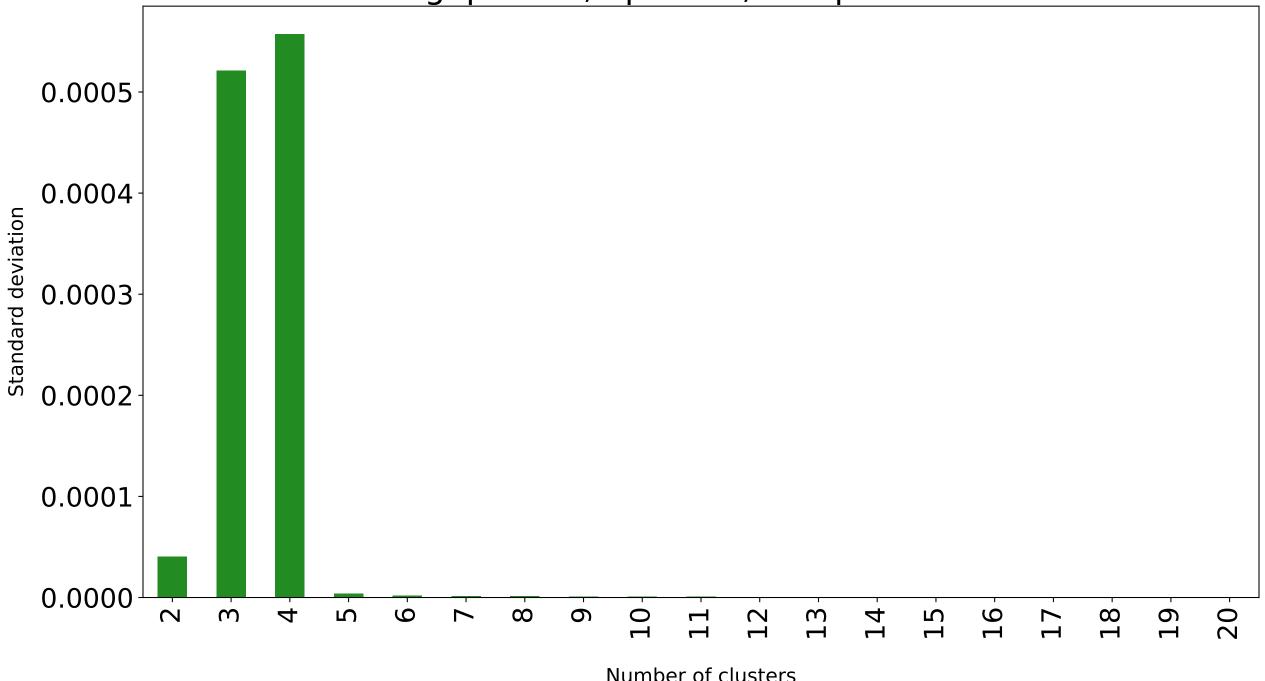


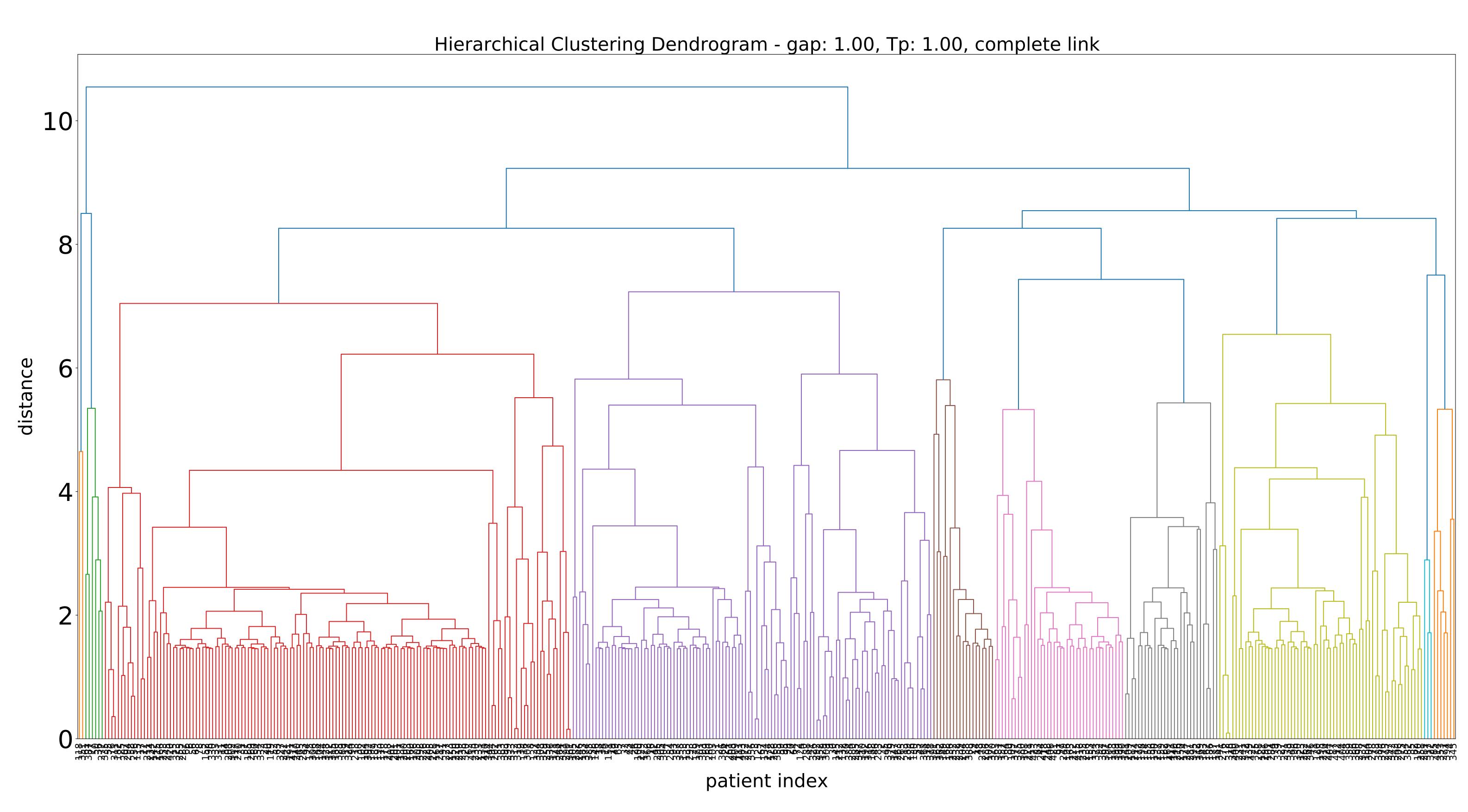


Average values of five clustering indices gap: 0.90, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.89233	0.80717	0.15978	0.06898	0.29185	0.88198	0.13901	0.90311	0.00058	0.71224	0.7109	1.92857	0.39602	0.36111
3.0	0.99997	0.71809	0.55586	0.20802	0.19179	0.30247	0.70669	0.20701	0.72991	5e-05	0.48732	0.3946	1.92857	0.26468	0.18854
4.0	0.99999	0.58212	0.40931	0.21215	0.26572	0.26945	0.57466	-0.06376	0.58977	4e-05	0.46714	0.2621	1.92857	0.25109	0.19594
5.0	1.00001	0.62348	0.45504	0.38369	0.23532	0.44182	0.61881	-0.92742	0.6282	8e-05	0.60407	0.30064	1.92857	0.21116	0.20449
6.0	1.0	0.72723	0.5798	0.69506	0.18303	0.63838	0.72414	-2.19766	0.73037	0.00014	0.76344	0.42154	1.92857	0.23626	0.21158
7.0	1.0	0.76142	0.62547	0.73261	0.15723	0.69064	0.75941	-3.37191	0.76346	0.00016	0.80472	0.47053	1.92857	0.27488	0.21552
8.0	1.0	0.76748	0.6331	0.72356	0.15189	0.70207	0.76609	-4.04813	0.7689	0.00016	0.81677	0.47758	1.92857	0.28693	0.22415
9.0	1.0	0.77152	0.63803	0.7151	0.15085	0.71072	0.7704	-5.24431	0.77264	0.00017	0.82674	0.4825	1.92857	0.26318	0.2325
10.0	1.0	0.76785	0.62921	0.74642	0.15004	0.71425	0.7663	-6.51223	0.76942	0.00019	0.83949	0.46954	1.92857	0.23207	0.23341
11.0	1.0	0.80537	0.68138	0.79492	0.11296	0.76454	0.80396	-8.22653	0.80681	0.00021	0.87337	0.53106	1.92857	0.26311	0.26292
12.0	1.0	0.79643	0.66688	0.77745	0.1183	0.75705	0.79522	-9.25409	0.79764	0.00022	0.87589	0.51038	1.92857	0.26175	0.26392
13.0	1.0	0.80328	0.67489	0.76288	0.11484	0.76729	0.80233	-10.892	0.80424	0.00023	0.885	0.51695	1.92857	0.23571	0.23494
14.0	1.0	0.86111	0.75718	0.89854	0.10204	0.83936	0.85879	-12.81052	0.86344	0.00028	0.92537	0.61789	1.92857	0.22027	0.2444
15.0	1.0	0.87484	0.77919	0.89814	0.09362	0.85584	0.87342	-14.12264	0.87626	0.0003	0.93495	0.64593	1.92857	0.23313	0.247
16.0	1.0	0.88878	0.80182	0.91026	0.08908	0.87248	0.88767	-14.82841	0.88989	0.00031	0.94387	0.67697	1.92857	0.2328	0.21925
17.0	1.0	0.89398	0.81061	0.90109	0.08974	0.87875	0.89334	-16.77949	0.89462	0.00032	0.94775	0.68855	2.0	0.21199	0.22003
18.0	1.0	0.895	0.81226	0.88872	0.09044	0.88015	0.89454	-18.24586	0.89546	0.00032	0.94911	0.69024	2.0	0.22367	0.22881
19.0	1.0	0.89445	0.81118	0.88312	0.09204	0.8799	0.89403	-20.20486	0.89489	0.00033	0.94993	0.68831	2.0	0.22315	0.22905
20.0	1.0	0.89568	0.813	0.88351	0.0918	0.88173	0.89529	-22.01208	0.89606	0.00034	0.95181	0.69038	2.0	0.21237	0.22927

Standard deviation of Adjusted Rand versus number of clusters gap: 0.90, Tp: 1.00, complete link





Average values of five clustering indices gap: 1.00, Tp: 1.00, complete link

k	AR	FM	J	AW	VD	Н	F	VI	К	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.93832	0.88761	0.41901	0.04051	0.45116	0.93468	0.09903	0.94209	0.00047	0.82192	0.81886	1.04651	0.30181	0.20623
3.0	1.00001	0.67779	0.52916	0.30965	0.23692	0.28922	0.67312	0.09942	0.6826	5e-05	0.49876	0.39106	1.04651	0.17324	0.21604
4.0	1.00002	0.63975	0.48907	0.36564	0.24232	0.3796	0.63634	-0.37538	0.64321	6e-05	0.55026	0.35137	1.04651	0.21011	0.21716
5.0	1.00001	0.64201	0.47967	0.34647	0.23669	0.43075	0.63241	-1.13408	0.65187	7e-05	0.57629	0.33612	1.88372	0.23472	0.21924
6.0	1.00004	0.61942	0.43733	0.29691	0.2454	0.42588	0.60153	-1.59521	0.63801	8e-05	0.56571	0.28615	1.88372	0.23381	0.22349
7.0	1.0	0.80662	0.69051	0.72832	0.12752	0.74042	0.80456	-3.74563	0.8087	0.00016	0.82432	0.55223	1.88372	0.25437	0.22349
8.0	1.0	0.81827	0.70642	0.74405	0.12286	0.76228	0.81668	-4.75532	0.81988	0.00017	0.84542	0.57031	1.88372	0.26121	0.24606
9.0	1.0	0.81424	0.69718	0.71372	0.12521	0.76009	0.81177	-6.01245	0.81674	0.00017	0.84622	0.55533	1.88372	0.29338	0.24837
10.0	1.0	0.82217	0.70883	0.72407	0.10256	0.77424	0.81953	-7.48387	0.82483	0.00019	0.86015	0.57015	1.88372	0.31791	0.25526
11.0	1.0	0.80719	0.68591	0.75003	0.11386	0.76238	0.80573	-8.31149	0.80867	0.0002	0.8653	0.53737	1.88372	0.29865	0.25054
12.0	1.0	0.82422	0.70699	0.79254	0.1077	0.7879	0.82292	-9.81624	0.82554	0.00022	0.88629	0.55887	1.88372	0.29351	0.2697
13.0	1.0	0.82564	0.70645	0.7677	0.1058	0.7919	0.82408	-10.63023	0.82721	0.00023	0.89214	0.55484	1.88372	0.30529	0.27029
14.0	1.0	0.87026	0.77372	0.87755	0.0963	0.84814	0.86894	-12.41852	0.8716	0.00027	0.92624	0.64116	1.88372	0.28442	0.28501
15.0	1.0	0.88275	0.79341	0.88139	0.09212	0.86357	0.8818	-13.11832	0.8837	0.00028	0.93562	0.6669	1.88372	0.28207	0.21904
16.0	1.0	0.89183	0.80771	0.87633	0.0899	0.87476	0.89116	-14.93983	0.8925	0.00029	0.94241	0.68563	1.88372	0.28646	0.21949
17.0	1.0	0.8948	0.81146	0.86199	0.09121	0.87872	0.89404	-16.88053	0.89555	0.0003	0.94527	0.68909	2.0	0.26438	0.23099
18.0	1.0	0.89211	0.80628	0.84631	0.0928	0.87612	0.89114	-18.29525	0.89308	0.00031	0.94507	0.68088	2.0	0.26474	0.23458
19.0	1.0	0.88812	0.79911	0.83447	0.0962	0.87191	0.88695	-20.12667	0.88929	0.00031	0.94399	0.66999	2.0	0.26687	0.23501
20.0	1.0	0.90001	0.8195	0.86536	0.08967	0.88612	0.89938	-21.95799	0.90065	0.00033	0.95195	0.69917	2.0	0.25953	0.23611

Standard deviation of Adjusted Rand versus number of clusters gap: 1.00, Tp: 1.00, complete link

