Hierarchical Clustering Dendrogram - gap: -1.00, Tp: 0.25, single link
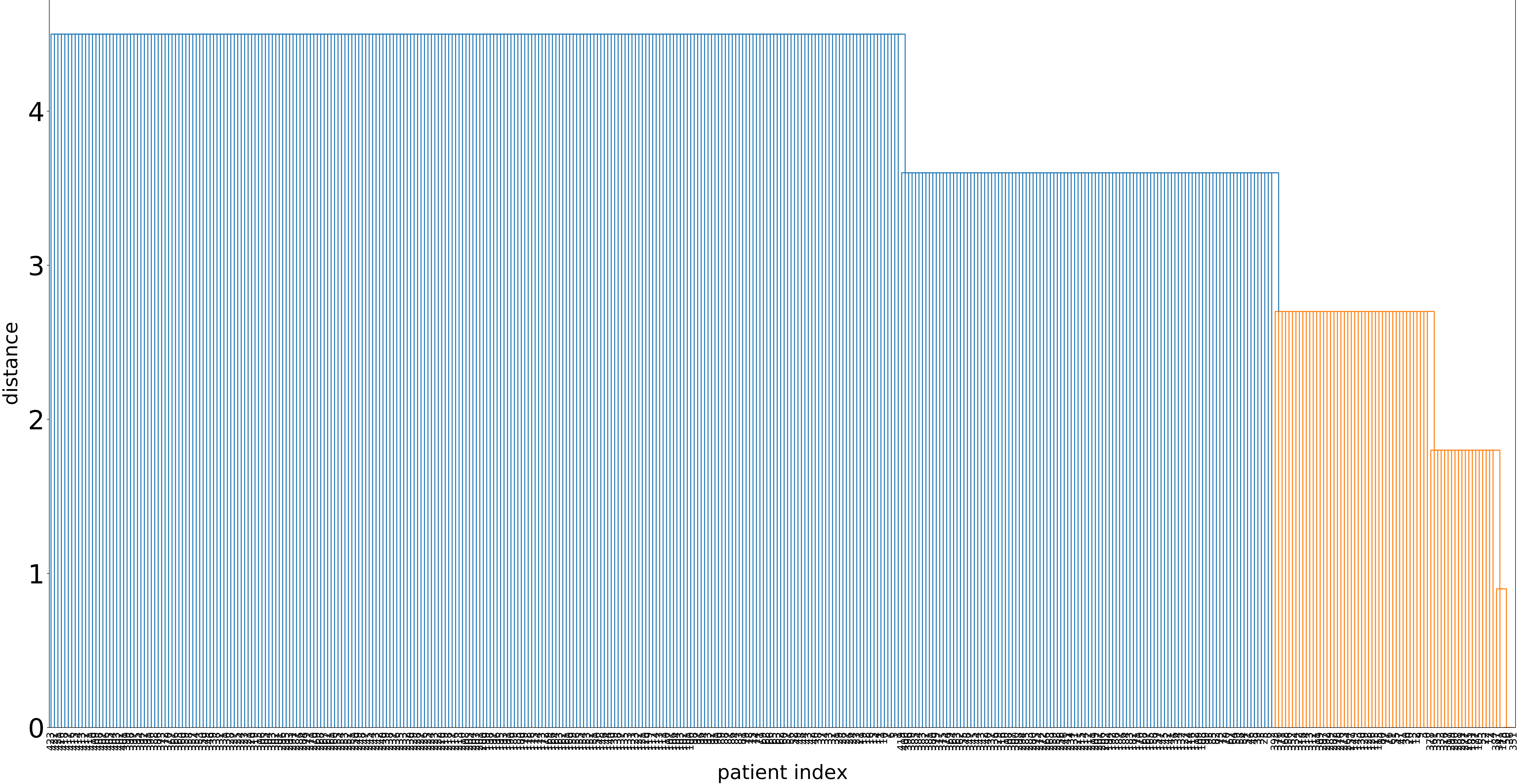
distance

patient index

Cophenetic Correlation Coefficient: 0.6632195348440978

Average values of 15 clustering indices
gap: -1.00, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.016	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.041	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	0.883	1.0	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	0.896	1.0	1.0	0.011	1.0	1.0	0.066	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	0.907	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	0.915	1.0	1.0	0.014	1.0	1.0	0.083	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.091	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.101	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.109	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.118	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.135	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.144	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.152	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	1.0	1.0	0.027	1.0	1.0	0.161	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.90, Tp: 0.25, single link

distance

patient index

Cophenetic Correlation Coefficient: 0.6632195348440976

Average values of 15 clustering indices
gap: -0.90, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.016	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.005	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.041	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	1.0	1.0	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	1.0	1.0	1.0	0.011	1.0	1.0	0.066	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	1.0	1.0	1.0	0.014	1.0	1.0	0.083	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.092	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.109	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.117	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.135	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.143	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.152	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	1.0	1.0	0.027	1.0	1.0	0.162	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.80, Tp: 0.25, single link

distance

patient index

Cophenetic Correlation Coefficient: 0.6632195348440978

Average values of 15 clustering indices
gap: -0.80, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.017	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.042	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	1.0	0.455	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	1.0	0.455	1.0	0.011	1.0	1.0	0.067	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	1.0	0.455	1.0	0.014	1.0	1.0	0.083	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.091	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.109	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.118	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.135	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.144	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.152	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	1.0	1.0	0.027	1.0	1.0	0.161	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.70, Tp: 0.25, single link

distance

patient index

Cophenetic Correlation Coefficient: 0.6632195348440978

Average values of 15 clustering indices
gap: -0.70, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.016	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.041	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	1.0	0.455	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	1.0	0.455	1.0	0.011	1.0	1.0	0.067	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	1.0	1.0	1.0	0.014	1.0	1.0	0.084	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.092	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.109	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.118	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.135	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.144	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.153	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	1.0	1.0	0.027	1.0	1.0	0.161	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.60, Tp: 0.25, single link

distance

patient index

Cophenetic Correlation Coefficient: 0.6632195348440977

Average values of 15 clustering indices
gap: -0.60, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.017	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.041	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	1.0	0.455	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	1.0	1.0	1.0	0.011	1.0	1.0	0.066	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	1.0	0.455	1.0	0.014	1.0	1.0	0.083	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.092	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.108	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.117	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.135	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.143	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.152	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	1.0	1.0	0.027	1.0	1.0	0.161	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.50, Tp: 0.25, single link
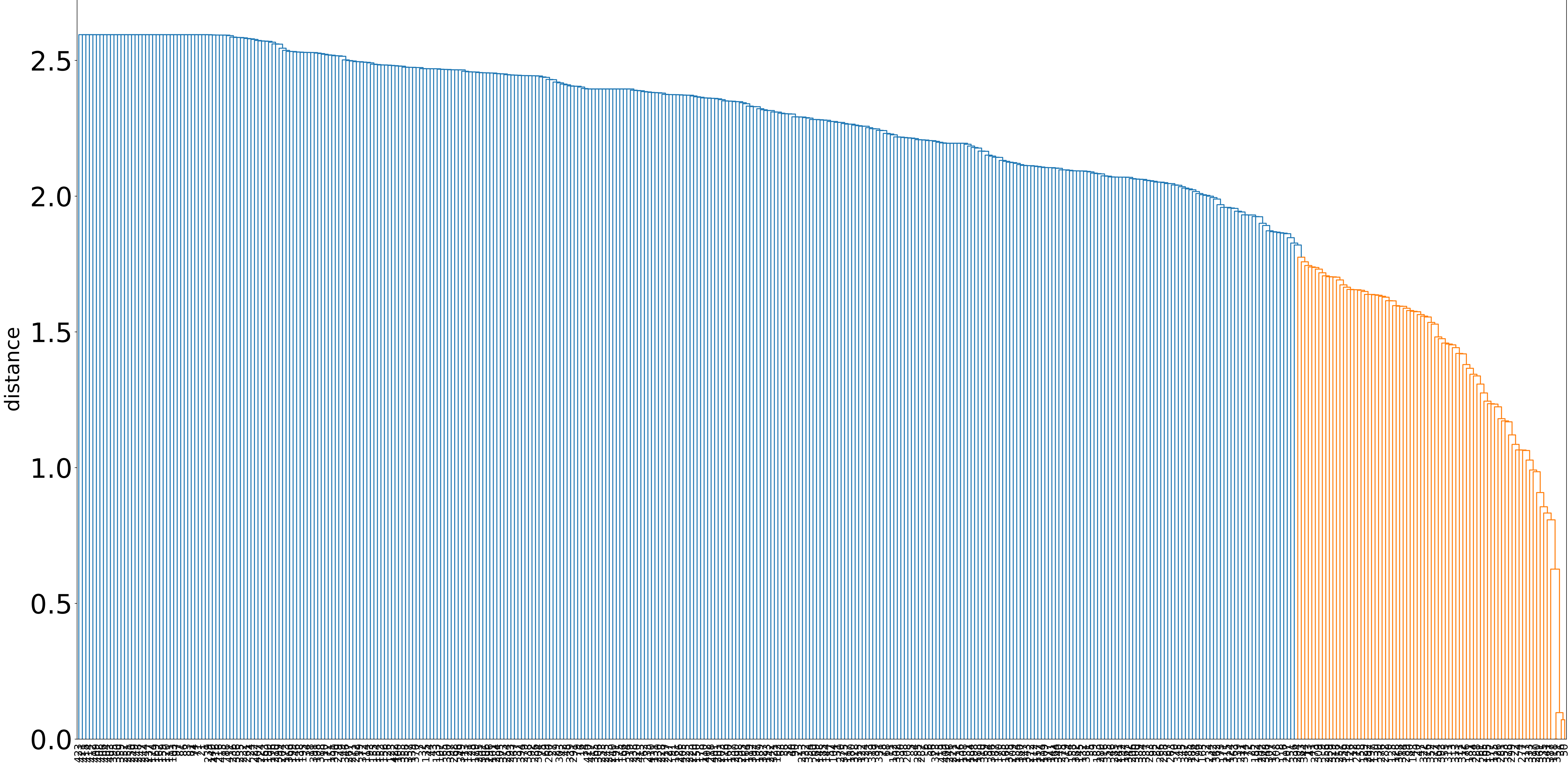
patient index

distance

Cophenetic Correlation Coefficient: 0.6632195348440978

Average values of 15 clustering indices
gap: -0.50, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.533	0.455
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.016	1.0	0.0	1.0	1.0	2.0	0.689	0.455
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.767	0.455
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.033	1.0	0.0	1.0	1.0	1.999	0.813	0.455
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.041	1.0	0.0	1.0	1.0	1.999	0.844	0.455
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.867	0.455
8	1.0	0.883	1.0	1.0	0.01	1.0	1.0	0.058	1.0	0.0	1.0	1.0	1.998	0.883	0.455
9	1.0	0.896	1.0	1.0	0.011	1.0	1.0	0.066	1.0	0.0	1.0	1.0	1.998	0.896	0.455
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.075	1.0	0.0	1.0	1.0	1.997	0.907	0.455
11	1.0	1.0	0.455	1.0	0.014	1.0	1.0	0.083	1.0	0.0	1.0	1.0	1.997	0.915	0.455
12	1.0	1.0	1.0	1.0	0.015	1.0	1.0	0.092	1.0	0.0	1.0	1.0	1.997	0.922	0.455
13	1.0	1.0	1.0	1.0	0.017	1.0	1.0	0.1	1.0	0.0	1.0	1.0	1.996	0.928	0.455
14	1.0	1.0	1.0	1.0	0.018	1.0	1.0	0.109	1.0	0.0	1.0	1.0	1.996	0.933	0.455
15	1.0	1.0	1.0	1.0	0.02	1.0	1.0	0.117	1.0	0.0	1.0	1.0	1.996	0.938	0.455
16	1.0	1.0	1.0	1.0	0.021	1.0	1.0	0.126	1.0	0.0	1.0	1.0	1.995	0.942	0.455
17	1.0	1.0	1.0	1.0	0.023	1.0	1.0	0.134	1.0	0.0	1.0	1.0	1.995	0.945	0.455
18	1.0	1.0	1.0	1.0	0.024	1.0	1.0	0.143	1.0	0.0	1.0	1.0	1.995	0.948	0.455
19	1.0	1.0	1.0	1.0	0.026	1.0	1.0	0.153	1.0	0.0	1.0	1.0	1.994	0.951	0.455
20	1.0	1.0	0.455	1.0	0.027	1.0	1.0	0.161	1.0	0.0	1.0	1.0	1.994	0.953	0.455

Hierarchical Clustering Dendrogram - gap: -0.40, Tp: 0.25, single link
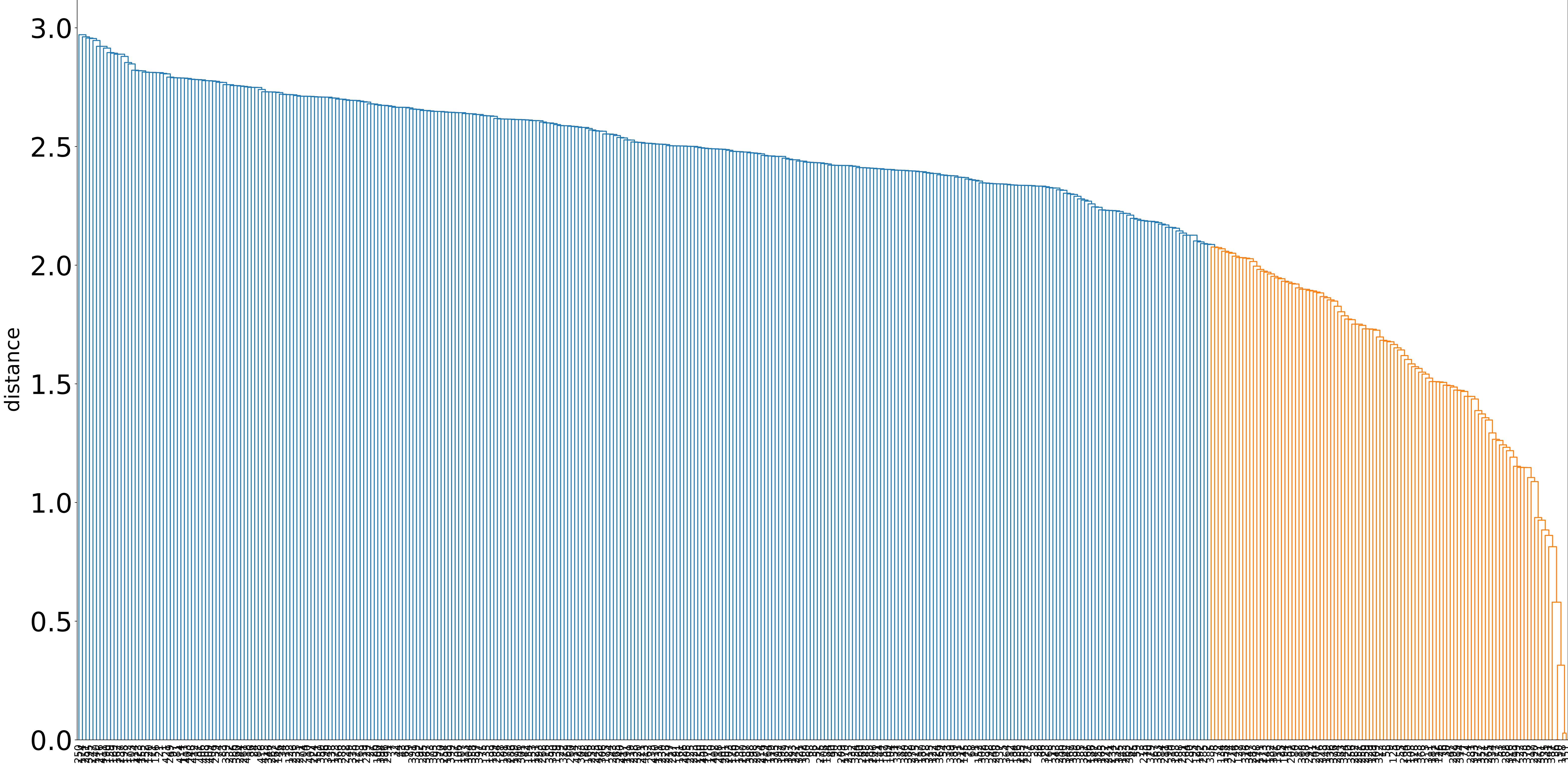
patient index

distance

Cophenetic Correlation Coefficient: 0.6921369581078664

Average values of 15 clustering indices
gap: -0.40, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.54	0.52
3	1.0	1.0	1.0	1.0	0.003	1.0	1.0	0.017	1.0	0.0	1.0	1.0	2.0	0.692	0.52
4	1.0	1.0	1.0	1.0	0.004	1.0	1.0	0.025	1.0	0.0	1.0	1.0	1.999	0.768	0.52
5	1.0	1.0	1.0	1.0	0.006	1.0	1.0	0.034	1.0	0.0	1.0	1.0	1.999	0.814	0.52
6	1.0	1.0	1.0	1.0	0.007	1.0	1.0	0.042	1.0	0.0	1.0	1.0	1.998	0.844	0.52
7	1.0	1.0	1.0	1.0	0.008	1.0	1.0	0.05	1.0	0.0	1.0	1.0	1.998	0.865	0.52
8	1.998	1.0	0.882	1.0	0.01	1.0	1.0	0.059	1.0	0.0	1.0	1.0	1.998	0.882	0.52
9	1.0	0.895	1.0	1.0	0.011	1.0	1.0	0.068	1.0	0.0	1.0	1.0	1.997	0.895	0.52
10	1.0	1.0	1.0	1.0	0.013	1.0	1.0	0.076	1.0	0.0	1.0	1.0	1.997	0.906	0.52
11	1.0	1.0	1.0	1.0	0.014	1.0	1.0	0.085	1.0	0.0	1.0	1.0	1.997	0.914	0.52
12	1.0	1.0	1.0	1.0	0.016	1.0	1.0	0.094	1.0	0.0	1.0	1.0	1.996	0.921	0.52
13	1.0	0.997	0.994	0.994	0.019	0.959	0.997	0.103	0.997	0.0	0.989	0.988	1.996	0.927	0.52
14	1.0	0.994	0.988	0.988	0.021	0.927	0.994	0.109	0.994	0.0	0.978	0.977	1.995	0.932	0.52
15	1.0	0.991	0.982	0.983	0.024	0.901	0.991	0.118	0.991	0.0	0.968	0.965	1.995	0.937	0.52
16	1.0	0.988	0.976	0.977	0.028	0.881	0.988	0.123	0.988	0.0	0.958	0.954	1.995	0.941	0.52
17	1.0	0.985	0.97	0.968	0.03	0.859	0.985	0.113	0.985	0.0	0.947	0.942	1.994	0.944	0.52
18	1.0	0.982	0.964	0.962	0.033	0.844	0.982	0.113	0.982	0.0	0.937	0.931	1.994	0.947	0.52
19	1.0	0.979	0.958	0.951	0.035	0.827	0.979	0.089	0.979	0.0	0.927	0.919	1.993	0.95	0.52
20	1.0	0.975	0.952	0.952	0.038	0.816	0.975	0.112	0.976	0.0	0.917	0.908	1.993	0.953	0.52

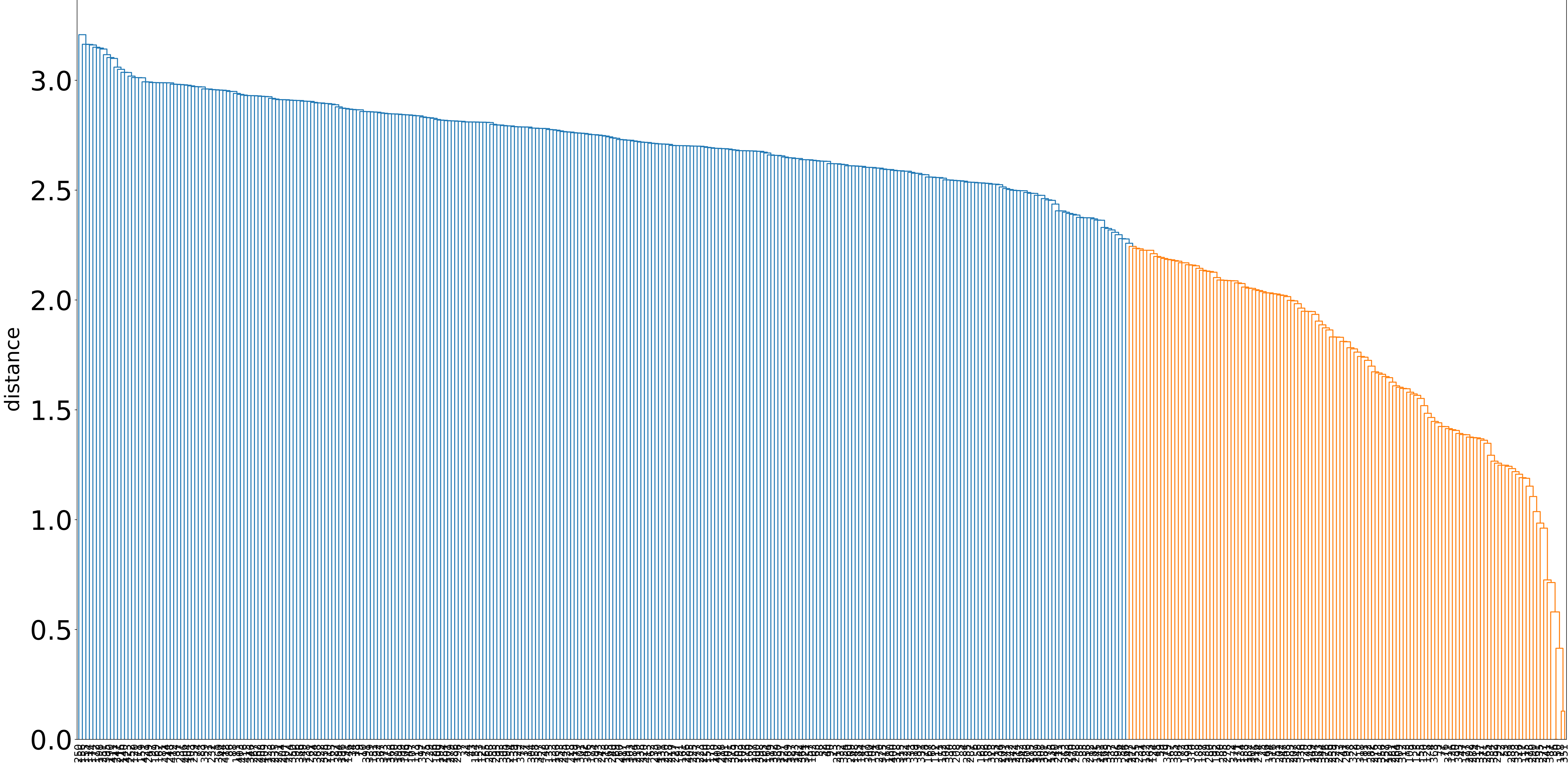Hierarchical Clustering Dendrogram - gap: -0.30, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.7030374179789812

Average values of 15 clustering indices
gap: -0.30, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	0.997	0.995	0.993	0.003	0.704	0.997	0.016	0.997	0.0	0.989	0.989	2.0	0.546	0.623
3	1.0	0.994	0.989	0.992	0.005	0.702	0.994	0.033	0.994	0.0	0.978	0.978	2.0	0.696	0.621
4	1.0	0.992	0.983	0.981	0.008	0.699	0.992	0.048	0.992	0.0	0.968	0.967	1.999	0.772	0.62
5	1.0	0.992	0.983	0.984	0.01	0.748	0.992	0.056	0.992	0.0	0.968	0.967	1.999	0.817	0.619
6	1.0	0.989	0.978	0.977	0.012	0.734	0.989	0.071	0.989	0.0	0.958	0.956	1.998	0.847	0.617
7	1.0	0.986	0.972	0.97	0.015	0.723	0.986	0.084	0.986	0.0	0.947	0.945	1.998	0.868	0.612
8	1.0	0.983	0.966	0.966	0.018	0.715	0.983	0.097	0.983	0.0	0.937	0.935	1.997	0.885	0.612
9	1.0	0.983	0.966	0.962	0.019	0.737	0.983	0.101	0.983	0.0	0.937	0.934	1.997	0.897	0.611
10	1.0	0.98	0.96	0.96	0.022	0.73	0.98	0.113	0.98	0.0	0.927	0.923	1.997	0.907	0.607
11	1.0	0.977	0.954	0.956	0.025	0.723	0.977	0.126	0.977	0.0	0.917	0.913	1.996	0.916	0.606
12	1.0	0.974	0.948	0.942	0.027	0.713	0.974	0.121	0.974	0.0	0.907	0.902	1.996	0.923	0.605
13	1.0	0.971	0.942	0.939	0.03	0.707	0.97	0.132	0.971	0.0	0.898	0.891	1.995	0.929	0.605
14	1.0	0.968	0.936	0.93	0.033	0.698	0.967	0.13	0.968	0.0	0.888	0.88	1.995	0.934	0.603
15	1.0	0.964	0.93	0.924	0.036	0.693	0.964	0.133	0.965	0.0	0.879	0.87	1.994	0.938	0.598
16	1.0	0.961	0.924	0.919	0.038	0.689	0.961	0.131	0.962	0.0	0.87	0.859	1.994	0.942	0.597
17	1.0	0.958	0.918	0.909	0.041	0.681	0.957	0.121	0.958	0.0	0.861	0.849	1.994	0.944	0.591
18	1.0	0.955	0.912	0.905	0.044	0.678	0.954	0.122	0.955	0.0	0.852	0.838	1.993	0.947	0.591
19	1.0	0.954	0.911	0.905	0.045	0.687	0.954	0.108	0.955	0.0	0.852	0.837	1.993	0.95	0.591
20	1.0	0.951	0.905	0.902	0.048	0.683	0.95	0.108	0.952	0.0	0.843	0.826	1.992	0.952	0.59

Hierarchical Clustering Dendrogram - gap: -0.20, Tp: 0.25, single link
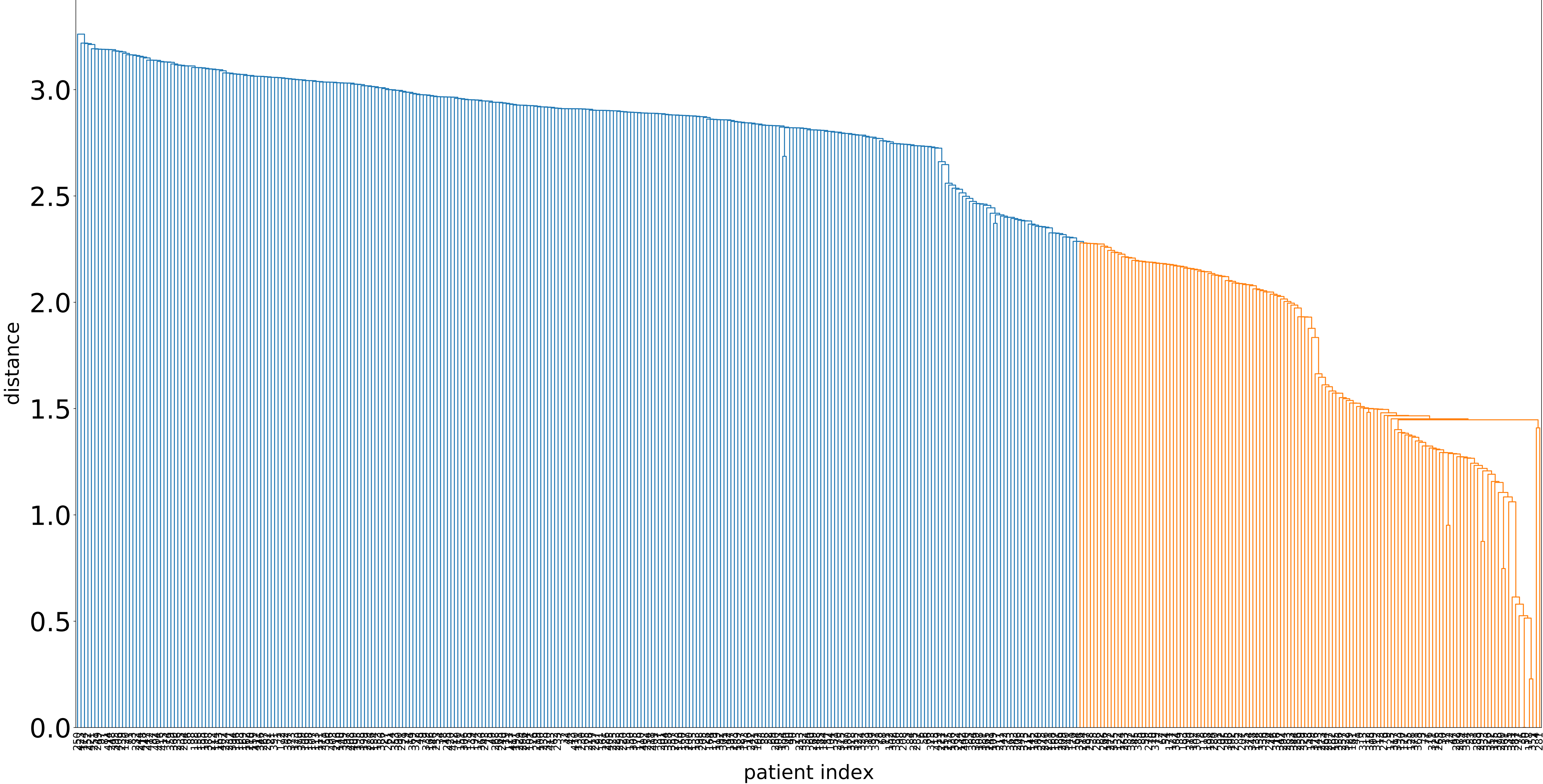
distance

patient index

Cophenetic Correlation Coefficient: 0.7124128460064628

Average values of 15 clustering indices
gap: -0.20, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	0.997	0.995	0.997	0.003	0.706	0.997	0.016	0.997	0.0	0.989	0.989	2.0	0.549	0.701
3	1.0	0.994	0.989	0.982	0.005	0.698	0.994	0.032	0.994	0.0	0.978	0.978	2.0	0.69	0.692
4	1.0	0.992	0.983	0.983	0.008	0.698	0.992	0.048	0.992	0.0	0.968	0.967	1.999	0.768	0.692
5	1.0	0.989	0.978	0.98	0.011	0.699	0.989	0.065	0.989	0.0	0.958	0.957	1.999	0.814	0.691
6	1.0	0.986	0.972	0.976	0.014	0.694	0.986	0.08	0.986	0.0	0.947	0.946	1.998	0.845	0.689
7	1.0	0.983	0.966	0.967	0.017	0.691	0.983	0.093	0.983	0.0	0.937	0.935	1.998	0.867	0.688
8	1.0	0.98	0.961	0.958	0.019	0.686	0.98	0.104	0.98	0.0	0.927	0.924	1.998	0.884	0.687
9	1.0	0.977	0.955	0.958	0.022	0.684	0.977	0.119	0.977	0.0	0.917	0.914	1.997	0.897	0.682
10	1.0	0.977	0.955	0.956	0.023	0.704	0.977	0.122	0.977	0.0	0.917	0.913	1.997	0.907	0.679
11	1.0	0.974	0.949	0.947	0.026	0.697	0.974	0.128	0.974	0.0	0.907	0.902	1.996	0.915	0.678
12	1.0	0.974	0.948	0.945	0.028	0.715	0.974	0.127	0.974	0.0	0.907	0.902	1.996	0.922	0.669
13	1.0	0.971	0.942	0.943	0.03	0.708	0.97	0.138	0.971	0.0	0.898	0.891	1.995	0.928	0.667
14	1.0	0.968	0.936	0.933	0.033	0.7	0.967	0.136	0.968	0.0	0.888	0.88	1.995	0.933	0.664
15	1.0	0.964	0.93	0.926	0.036	0.695	0.964	0.136	0.965	0.0	0.879	0.87	1.994	0.938	0.664
16	1.0	0.964	0.93	0.926	0.037	0.707	0.964	0.123	0.965	0.0	0.879	0.869	1.994	0.941	0.66
17	1.0	0.961	0.924	0.921	0.04	0.7	0.96	0.132	0.961	0.0	0.87	0.858	1.993	0.944	0.659
18	1.0	0.958	0.918	0.909	0.042	0.692	0.957	0.103	0.958	0.0	0.861	0.848	1.993	0.946	0.659
19	1.0	0.954	0.911	0.901	0.045	0.686	0.954	0.096	0.955	0.0	0.852	0.837	1.992	0.949	0.659
20	1.0	0.951	0.905	0.888	0.048	0.679	0.95	0.062	0.951	0.0	0.843	0.826	1.992	0.952	0.655

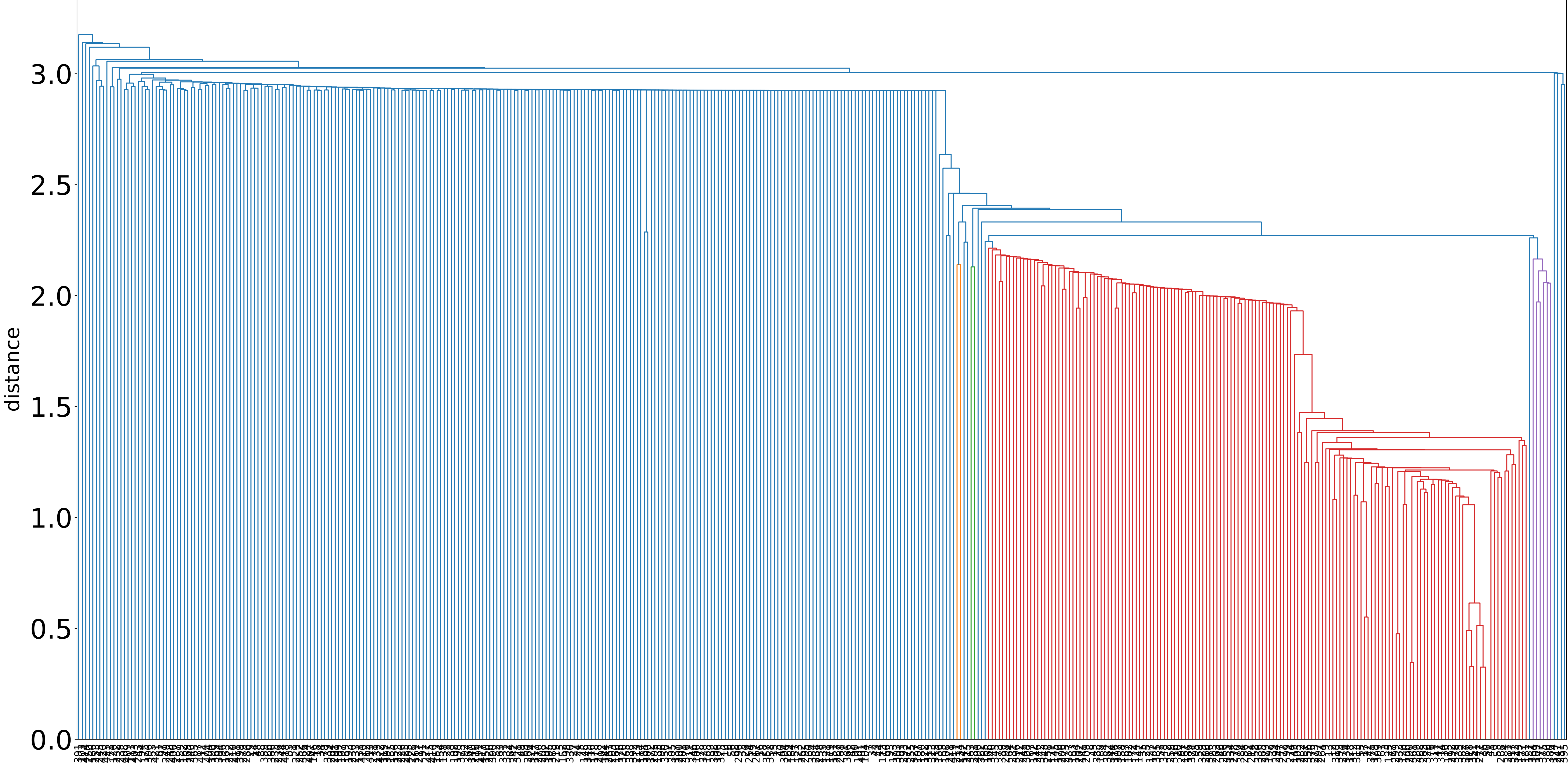Hierarchical Clustering Dendrogram - gap: -0.10, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.6476106572026445

Average values of 15 clustering indices
gap: -0.10, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	0.997	0.995	0.997	0.003	0.705	0.997	0.016	0.997	0.0	0.989	0.989	2.0	0.552	0.746
3	1.0	0.997	0.994	0.989	0.004	0.813	0.997	0.024	0.997	0.0	0.989	0.989	2.0	0.691	0.736
4	1.0	0.994	0.989	0.989	0.007	0.771	0.994	0.041	0.994	0.0	0.978	0.978	1.999	0.768	0.736
5	1.0	0.992	0.983	0.984	0.01	0.749	0.992	0.056	0.992	0.0	0.968	0.967	1.998	0.811	0.735
6	1.0	0.992	0.983	0.984	0.011	0.784	0.992	0.064	0.992	0.0	0.968	0.967	1.998	0.841	0.73
7	1.0	0.989	0.978	0.978	0.014	0.764	0.989	0.077	0.989	0.0	0.958	0.956	1.998	0.864	0.73
8	1.0	0.986	0.972	0.971	0.017	0.75	0.986	0.09	0.986	0.0	0.947	0.945	1.997	0.881	0.73
9	1.0	0.983	0.966	0.964	0.019	0.737	0.983	0.101	0.983	0.0	0.937	0.934	1.997	0.894	0.729
10	1.0	0.98	0.96	0.962	0.022	0.729	0.98	0.115	0.98	0.0	0.927	0.923	1.996	0.905	0.729
11	1.0	0.98	0.96	0.958	0.024	0.747	0.98	0.114	0.98	0.0	0.927	0.923	1.996	0.913	0.729
12	1.0	0.977	0.954	0.952	0.026	0.737	0.976	0.122	0.977	0.0	0.917	0.912	1.995	0.921	0.728
13	1.0	0.977	0.954	0.947	0.028	0.75	0.976	0.115	0.977	0.0	0.917	0.912	1.995	0.927	0.727
14	1.0	0.976	0.953	0.95	0.029	0.763	0.976	0.121	0.977	0.0	0.917	0.911	1.994	0.932	0.727
15	1.0	0.973	0.947	0.946	0.032	0.753	0.973	0.127	0.974	0.0	0.907	0.9	1.994	0.936	0.725
16	1.0	0.97	0.941	0.932	0.034	0.742	0.97	0.106	0.97	0.0	0.898	0.889	1.993	0.938	0.724
17	1.0	0.967	0.935	0.933	0.038	0.736	0.966	0.122	0.967	0.0	0.888	0.878	1.993	0.942	0.723
18	1.0	0.964	0.929	0.925	0.04	0.726	0.963	0.12	0.964	0.0	0.879	0.867	1.992	0.945	0.723
19	1.0	0.96	0.923	0.926	0.043	0.722	0.96	0.133	0.961	0.0	0.87	0.856	1.992	0.948	0.722
20	1.0	0.957	0.916	0.916	0.046	0.713	0.956	0.115	0.958	0.0	0.861	0.846	1.991	0.951	0.721

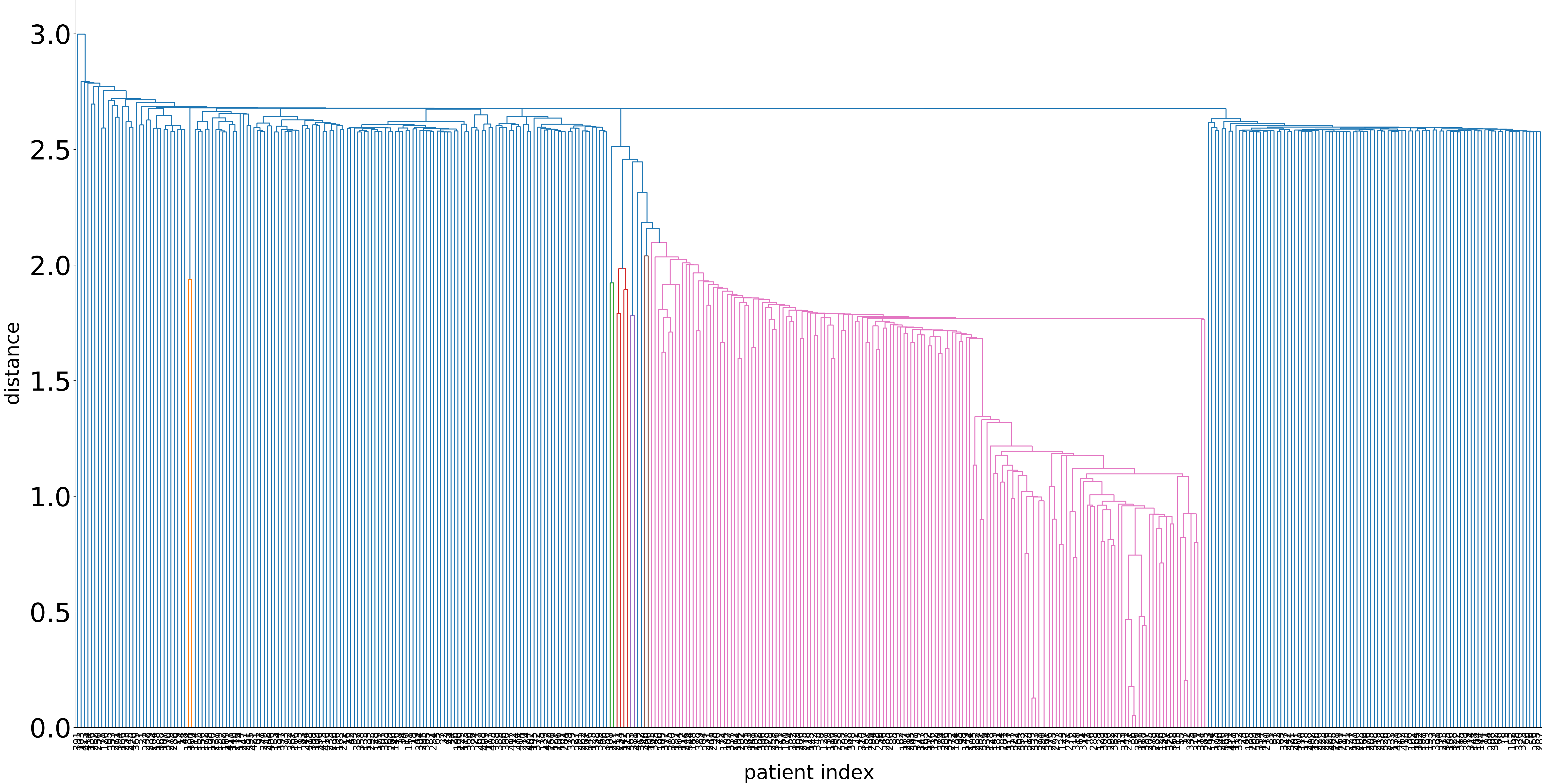Hierarchical Clustering Dendrogram - gap: 0.00, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.4769504092054939

Average values of 15 clustering indices
gap: 0.00, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.548	0.761
3	1.0	0.997	0.994	0.991	0.004	0.814	0.997	0.024	0.997	0.0	0.989	0.989	2.0	0.677	0.753
4	1.0	0.997	0.994	0.995	0.006	0.864	0.997	0.033	0.997	0.0	0.989	0.989	1.999	0.756	0.751
5	1.0	0.994	0.989	0.987	0.008	0.811	0.994	0.048	0.994	0.0	0.978	0.978	1.998	0.802	0.748
6	1.0	0.986	0.972	0.971	0.014	0.694	0.986	0.074	0.986	0.0	0.947	0.946	1.998	0.685	0.734
7	1.0	0.986	0.972	0.972	0.015	0.725	0.986	0.081	0.986	0.0	0.947	0.946	1.998	0.727	0.733
8	1.0	0.986	0.972	0.968	0.017	0.749	0.986	0.088	0.986	0.0	0.947	0.945	1.998	0.743	0.728
9	1.0	0.98	0.96	0.955	0.021	0.71	0.98	0.103	0.98	0.0	0.927	0.924	1.997	0.686	0.726
10	1.0	0.974	0.949	0.949	0.025	0.679	0.974	0.121	0.974	0.0	0.908	0.903	1.996	0.641	0.725
11	1.0	0.965	0.932	0.928	0.03	0.635	0.965	0.134	0.966	0.0	0.879	0.873	1.993	0.586	0.72
12	1.0	0.965	0.932	0.922	0.032	0.652	0.965	0.131	0.966	0.0	0.879	0.872	1.993	0.619	0.72
13	1.0	0.965	0.931	0.937	0.033	0.672	0.964	0.149	0.965	0.0	0.879	0.871	1.993	0.648	0.719
14	1.0	0.962	0.925	0.921	0.036	0.665	0.961	0.137	0.962	0.0	0.87	0.861	1.992	0.606	0.719
15	1.0	0.949	0.902	0.896	0.043	0.616	0.949	0.139	0.95	0.0	0.834	0.822	1.992	0.568	0.715
16	1.0	0.949	0.902	0.897	0.044	0.627	0.948	0.137	0.95	0.0	0.834	0.821	1.992	0.643	0.713
17	1.0	0.946	0.896	0.88	0.046	0.621	0.945	0.102	0.947	0.0	0.825	0.811	1.991	0.664	0.712
18	1.0	0.933	0.873	0.854	0.053	0.579	0.932	0.097	0.935	0.0	0.792	0.774	1.988	0.63	0.712
19	1.0	0.933	0.872	0.85	0.054	0.587	0.932	0.059	0.934	0.0	0.792	0.773	1.988	0.649	0.712
20	1.0	0.932	0.871	0.853	0.056	0.6	0.931	0.049	0.934	0.0	0.792	0.771	1.988	0.665	0.711

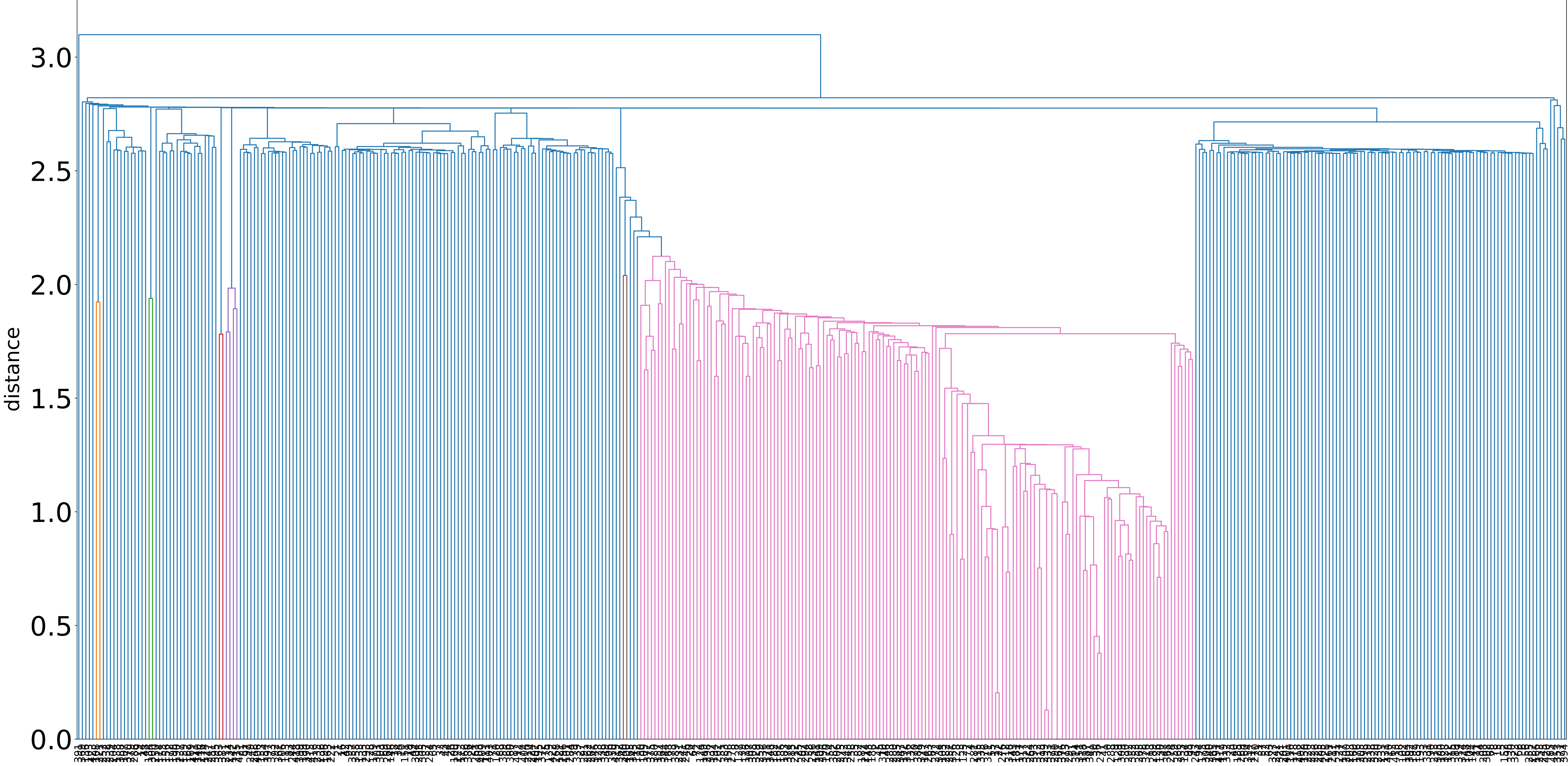Hierarchical Clustering Dendrogram - gap: 0.10, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.3975067141620936

Average values of 15 clustering indices
gap: 0.10, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.551	0.649
3	1.0	0.997	0.994	0.995	0.004	0.814	0.997	0.025	0.997	0.0	0.989	0.989	2.0	0.674	0.604
4	1.0	0.997	0.994	0.996	0.006	0.865	0.997	0.033	0.997	0.0	0.989	0.989	1.999	0.747	0.604
5	1.0	0.997	0.994	0.995	0.007	0.893	0.997	0.041	0.997	0.0	0.989	0.989	1.999	0.796	0.603
6	1.0	0.992	0.983	0.982	0.011	0.783	0.992	0.062	0.992	0.0	0.968	0.967	1.998	0.698	0.6
7	1.0	0.989	0.978	0.976	0.014	0.764	0.989	0.076	0.989	0.0	0.958	0.956	1.997	0.739	0.6
8	1.0	0.983	0.966	0.967	0.018	0.718	0.983	0.094	0.983	0.0	0.937	0.935	1.996	0.682	0.596
9	1.0	0.974	0.949	0.949	0.023	0.657	0.974	0.114	0.975	0.0	0.908	0.904	1.994	0.61	0.589
10	1.0	0.966	0.932	0.919	0.029	0.613	0.965	0.124	0.966	0.0	0.879	0.874	1.994	0.565	0.587
11	1.0	0.965	0.932	0.93	0.03	0.636	0.965	0.138	0.966	0.0	0.879	0.873	1.994	0.603	0.587
12	1.0	0.965	0.932	0.921	0.031	0.649	0.965	0.124	0.966	0.0	0.879	0.872	1.993	0.623	0.585
13	1.0	0.965	0.931	0.925	0.033	0.668	0.964	0.132	0.965	0.0	0.879	0.871	1.993	0.712	0.583
14	1.0	0.965	0.931	0.932	0.034	0.683	0.964	0.138	0.965	0.0	0.879	0.871	1.993	0.733	0.582
15	1.0	0.964	0.93	0.925	0.036	0.695	0.964	0.126	0.965	0.0	0.879	0.87	1.993	0.738	0.581
16	1.0	0.958	0.919	0.914	0.04	0.672	0.958	0.13	0.959	0.0	0.861	0.849	1.993	0.696	0.581
17	1.0	0.928	0.863	0.843	0.054	0.545	0.926	0.099	0.93	0.0	0.776	0.759	1.986	0.658	0.58
18	1.0	0.921	0.851	0.833	0.059	0.537	0.92	0.087	0.923	0.0	0.76	0.741	1.986	0.636	0.58
19	1.0	0.876	0.772	0.715	0.08	0.402	0.871	0.028	0.881	0.0	0.654	0.629	1.972	0.605	0.58
20	1.0	0.875	0.771	0.719	0.081	0.411	0.87	0.012	0.88	0.0	0.654	0.627	1.972	0.576	0.579

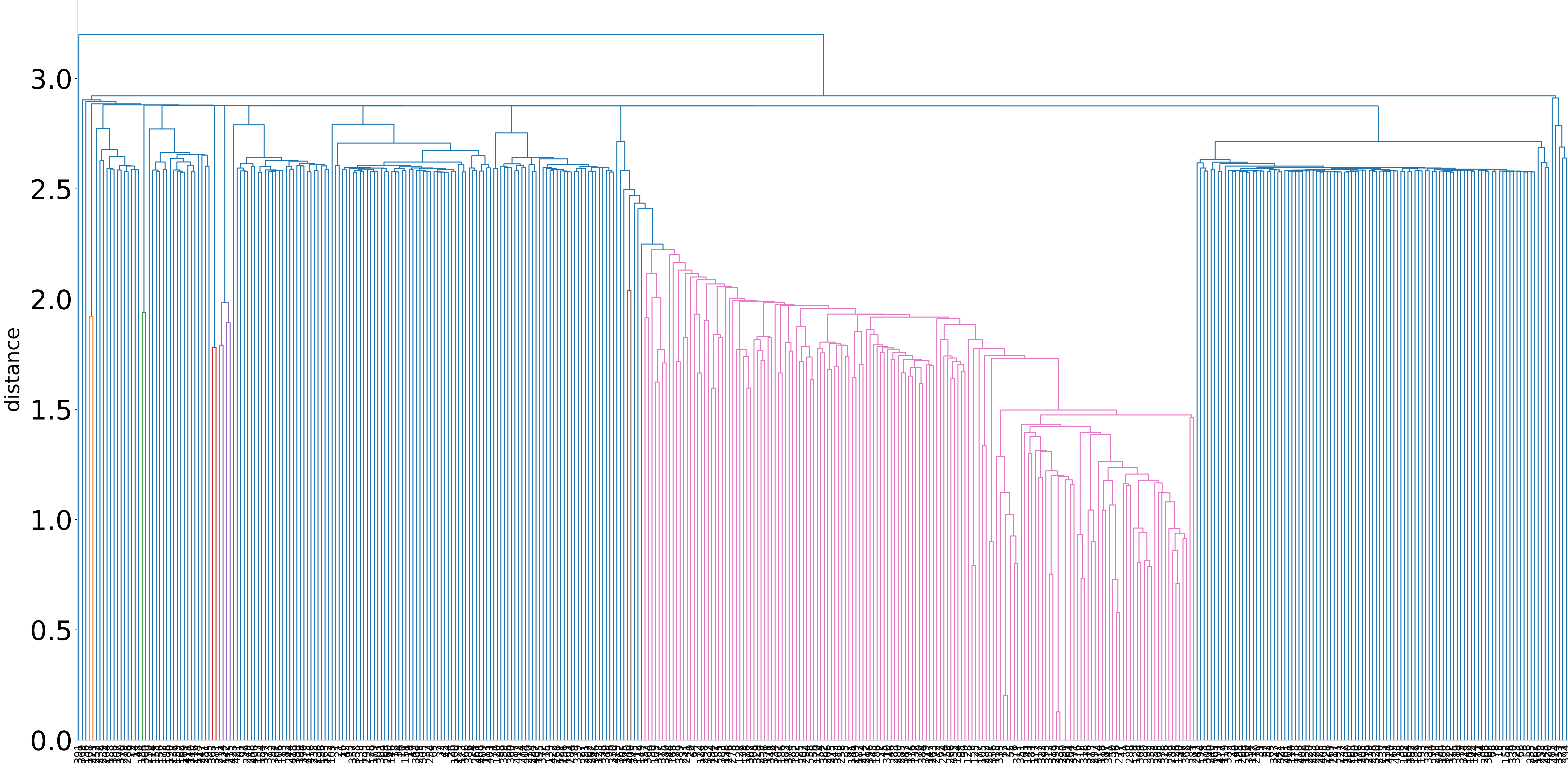Hierarchical Clustering Dendrogram - gap: 0.20, Tp: 0.25, single link

distance

patient index

Cophenetic Correlation Coefficient: 0.3483903997137967

Average values of 15 clustering indices
gap: 0.20, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.55	0.571
3	1.0	0.992	0.984	0.984	0.007	0.623	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.472	0.52
4	1.0	0.992	0.983	0.99	0.008	0.701	0.992	0.048	0.992	0.0	0.968	0.967	1.997	0.526	0.518
5	1.0	0.992	0.983	0.987	0.01	0.749	0.992	0.055	0.992	0.0	0.968	0.967	1.996	0.61	0.517
6	1.0	0.989	0.978	0.982	0.013	0.738	0.989	0.071	0.989	0.0	0.958	0.956	1.996	0.666	0.516
7	1.0	0.986	0.972	0.967	0.015	0.723	0.986	0.081	0.986	0.0	0.947	0.946	1.996	0.709	0.515
8	1.0	0.986	0.972	0.969	0.016	0.748	0.986	0.087	0.986	0.0	0.947	0.945	1.995	0.745	0.514
9	1.0	0.986	0.972	0.97	0.018	0.771	0.986	0.093	0.986	0.0	0.947	0.945	1.995	0.772	0.514
10	1.0	0.98	0.96	0.963	0.022	0.731	0.98	0.113	0.98	0.0	0.927	0.923	1.994	0.73	0.514
11	1.0	0.948	0.9	0.893	0.038	0.54	0.947	0.142	0.949	0.0	0.827	0.818	1.988	0.673	0.513
12	1.0	0.942	0.888	0.88	0.042	0.53	0.941	0.149	0.943	0.0	0.809	0.799	1.987	0.651	0.513
13	1.0	0.896	0.805	0.771	0.065	0.383	0.892	0.177	0.9	0.0	0.689	0.673	1.973	0.605	0.519
14	1.0	0.892	0.799	0.761	0.067	0.386	0.888	0.163	0.896	0.0	0.682	0.665	1.972	0.591	0.519
15	1.0	0.88	0.777	0.718	0.074	0.362	0.875	0.14	0.884	0.0	0.655	0.636	1.972	0.571	0.519
16	1.0	0.829	0.694	0.579	0.098	0.258	0.819	0.115	0.838	0.0	0.554	0.532	1.953	0.537	0.518
17	1.0	0.712	0.525	0.17	0.153	0.058	0.689	0.022	0.736	0.0	0.379	0.356	1.927	0.509	0.518
18	1.0	0.624	0.418	-0.231	0.193	-0.071	0.59	-0.095	0.661	-0.0	0.285	0.264	1.888	0.483	0.518
19	1.0	0.423	0.223	-1.545	0.313	-0.341	0.365	-0.276	0.489	-0.0	0.139	0.126	1.841	0.458	0.518
20	1.0	0.418	0.222	-1.516	0.314	-0.351	0.363	-0.418	0.482	-0.0	0.138	0.125	1.841	0.482	0.518

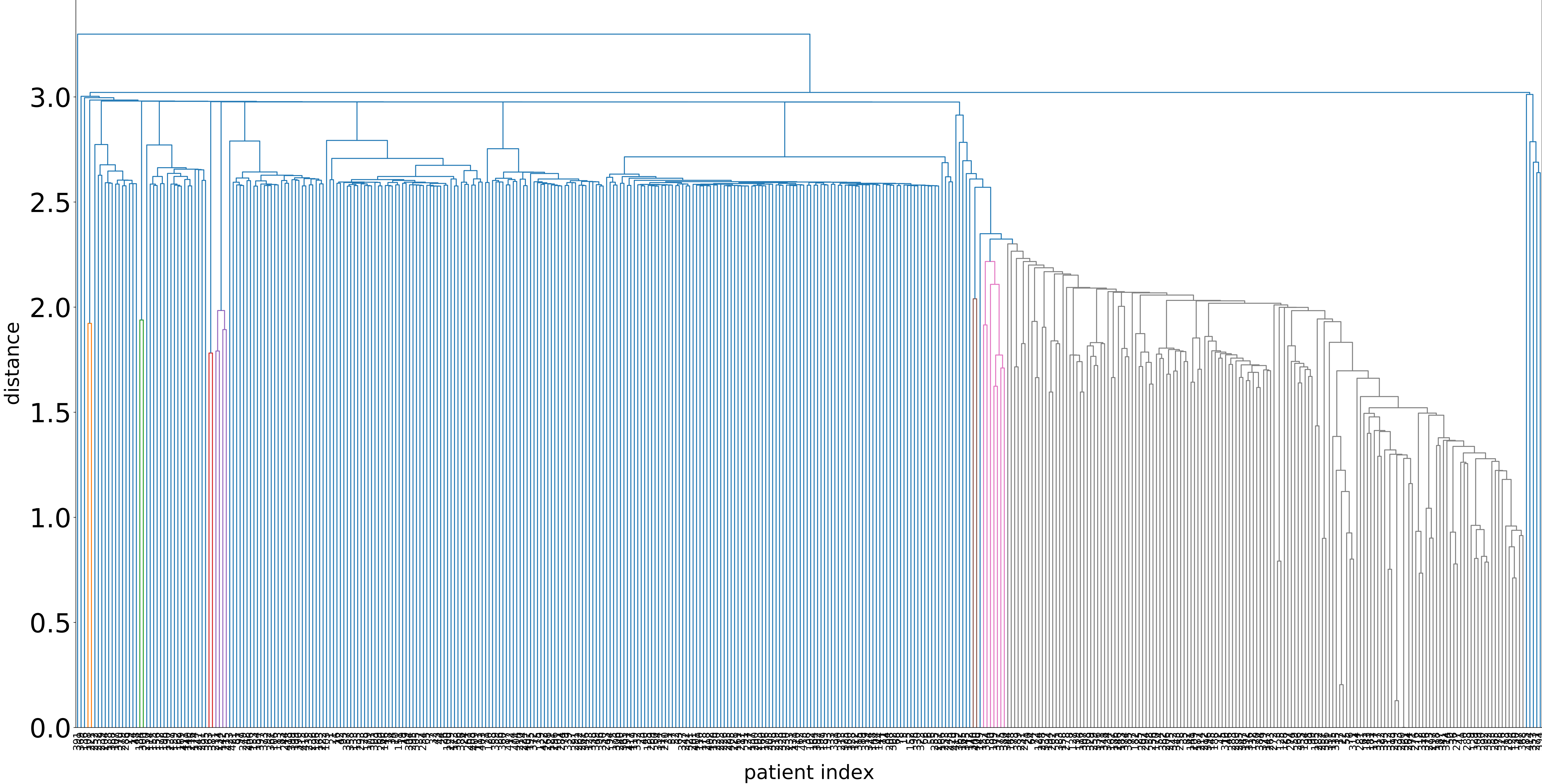Hierarchical Clustering Dendrogram - gap: 0.30, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.32370854148513306

Average values of 15 clustering indices
gap: 0.30, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.55	0.514
3	1.0	0.992	0.984	0.99	0.007	0.626	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.48	0.469
4	1.0	0.992	0.983	0.985	0.008	0.7	0.992	0.047	0.992	0.0	0.968	0.967	1.997	0.534	0.468
5	1.0	0.992	0.983	0.98	0.01	0.748	0.992	0.054	0.992	0.0	0.968	0.967	1.996	0.615	0.466
6	1.0	0.989	0.978	0.979	0.012	0.734	0.989	0.07	0.989	0.0	0.958	0.956	1.996	0.67	0.465
7	1.0	0.983	0.966	0.963	0.016	0.688	0.983	0.087	0.983	0.0	0.937	0.935	1.995	0.639	0.464
8	1.0	0.575	0.952	0.463	0.907	0.898	0.033	0.487	0.951	0.137	0.953	0.0	0.835	0.83	1.988	0.575	0.463
9	1.0	0.946	0.896	0.881	0.037	0.483	0.945	0.147	0.947	0.0	0.818	0.811	1.987	0.56	0.463
10	1.0	0.901	0.813	0.778	0.059	0.346	0.897	0.202	0.905	0.0	0.696	0.685	1.974	0.507	0.468
11	1.0	0.897	0.807	0.767	0.062	0.353	0.893	0.198	0.901	0.0	0.689	0.676	1.973	0.503	0.468
12	1.0	0.885	0.786	0.733	0.069	0.337	0.88	0.196	0.89	0.0	0.662	0.647	1.972	0.488	0.467
13	1.0	0.835	0.703	0.601	0.093	0.242	0.826	0.214	0.845	0.0	0.56	0.542	1.953	0.45	0.467
14	1.0	0.719	0.531	0.165	0.149	0.05	0.694	0.188	0.744	0.0	0.38	0.362	1.927	0.431	0.467
15	1.0	0.633	0.423	-0.226	0.189	-0.061	0.595	0.159	0.673	-0.0	0.285	0.269	1.888	0.407	0.467
16	1.0	0.434	0.227	-1.615	0.311	-0.317	0.371	0.075	0.508	-0.0	0.139	0.128	1.842	0.383	0.467
17	1.0	0.43	0.226	-1.606	0.311	-0.33	0.369	-0.041	0.501	-0.0	0.139	0.127	1.842	0.411	0.454
18	1.0	0.426	0.225	-1.576	0.312	-0.336	0.367	-0.161	0.495	-0.0	0.139	0.127	1.842	0.44	0.453
19	1.0	0.423	0.224	-1.55	0.313	-0.345	0.366	-0.298	0.488	-0.0	0.139	0.126	1.842	0.467	0.453
20	1.0	0.419	0.222	-1.521	0.314	-0.352	0.364	-0.438	0.482	-0.0	0.138	0.125	1.842	0.49	0.451

Hierarchical Clustering Dendrogram - gap: 0.40, Tp: 0.25, single link
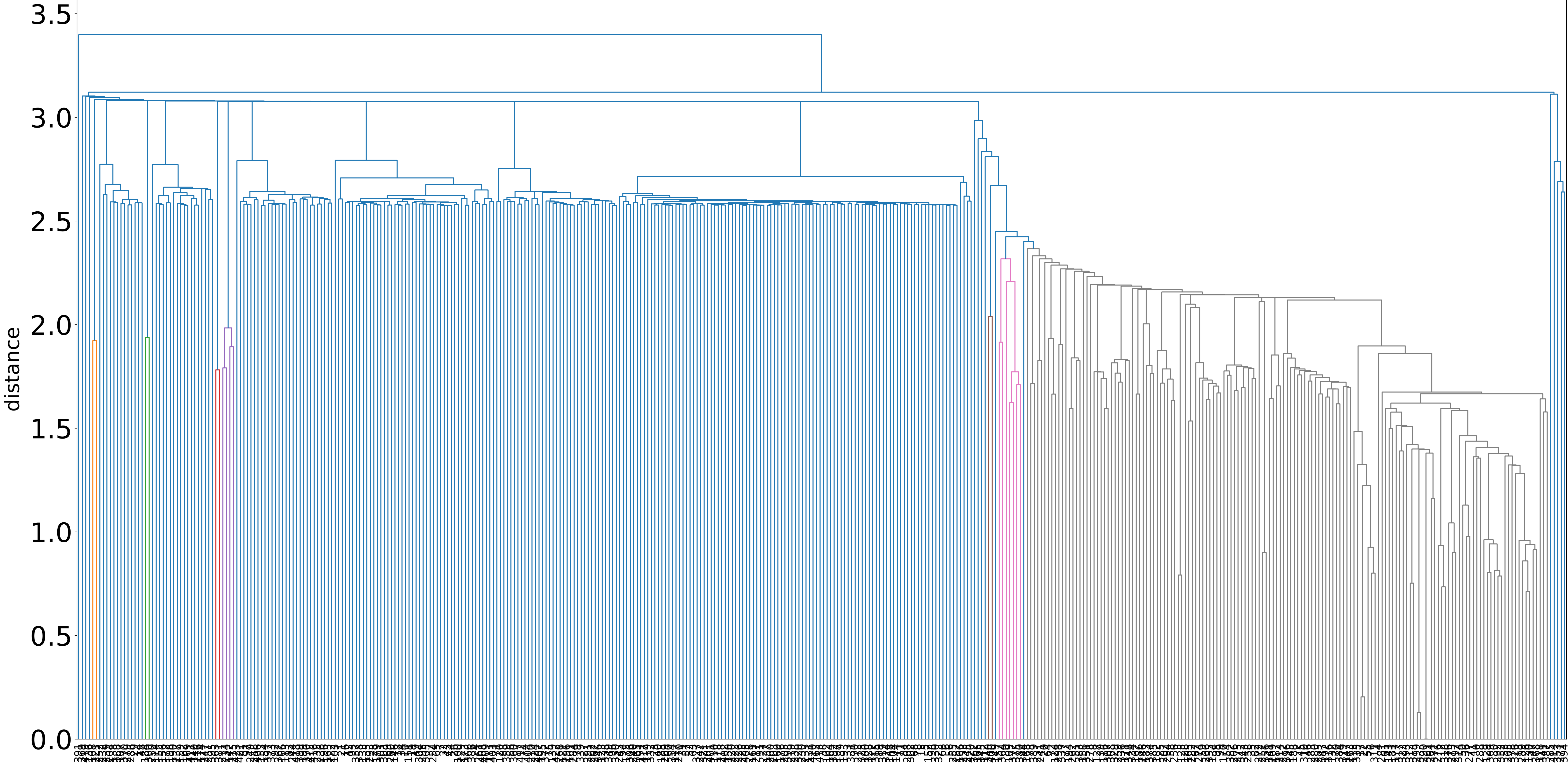
distance

patient index

Cophenetic Correlation Coefficient: 0.31388275992571235

Average values of 15 clustering indices
gap: 0.40, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.549	0.47
3	1.0	0.992	0.984	0.982	0.007	0.624	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.488	0.43
4	1.0	0.992	0.983	0.986	0.008	0.7	0.992	0.047	0.992	0.0	0.968	0.967	1.997	0.541	0.429
5	1.0	0.992	0.983	0.983	0.01	0.748	0.992	0.054	0.992	0.0	0.968	0.967	1.996	0.62	0.428
6	1.0	0.989	0.978	0.982	0.012	0.736	0.989	0.07	0.989	0.0	0.958	0.956	1.996	0.674	0.427
7	1.0	0.983	0.966	0.967	0.016	0.689	0.983	0.089	0.983	0.0	0.937	0.935	1.994	0.647	0.425
8	1.0	0.952	0.907	0.894	0.033	0.485	0.951	0.135	0.953	0.0	0.835	0.83	1.988	0.585	0.424
9	1.0	0.946	0.896	0.892	0.037	0.488	0.945	0.152	0.947	0.0	0.818	0.811	1.987	0.572	0.424
10	1.0	0.901	0.813	0.774	0.059	0.345	0.897	0.2	0.905	0.0	0.696	0.685	1.973	0.518	0.428
11	1.0	0.897	0.807	0.754	0.062	0.349	0.893	0.187	0.901	0.0	0.689	0.676	1.972	0.516	0.428
12	1.0	0.885	0.786	0.739	0.069	0.338	0.88	0.201	0.89	0.0	0.662	0.647	1.972	0.501	0.428
13	1.0	0.835	0.703	0.585	0.092	0.235	0.826	0.203	0.845	0.0	0.56	0.542	1.953	0.463	0.428
14	1.0	0.719	0.531	0.188	0.149	0.057	0.693	0.212	0.745	0.0	0.38	0.361	1.928	0.445	0.428
15	1.0	0.633	0.424	-0.233	0.189	-0.064	0.595	0.151	0.673	-0.0	0.285	0.269	1.888	0.422	0.428
16	1.0	0.434	0.227	-1.61	0.311	-0.315	0.37	0.081	0.508	-0.0	0.139	0.128	1.843	0.399	0.428
17	1.0	0.43	0.227	-1.593	0.312	-0.327	0.369	-0.047	0.502	-0.0	0.139	0.128	1.84	0.434	0.419
18	1.0	0.426	0.225	-1.579	0.312	-0.337	0.367	-0.166	0.495	-0.0	0.139	0.127	1.841	0.456	0.402
19	1.0	0.422	0.224	-1.544	0.313	-0.344	0.365	-0.285	0.488	-0.0	0.139	0.126	1.841	0.48	0.401
20	1.0	0.418	0.222	-1.514	0.314	-0.35	0.363	-0.42	0.482	-0.0	0.139	0.125	1.841	0.502	0.401

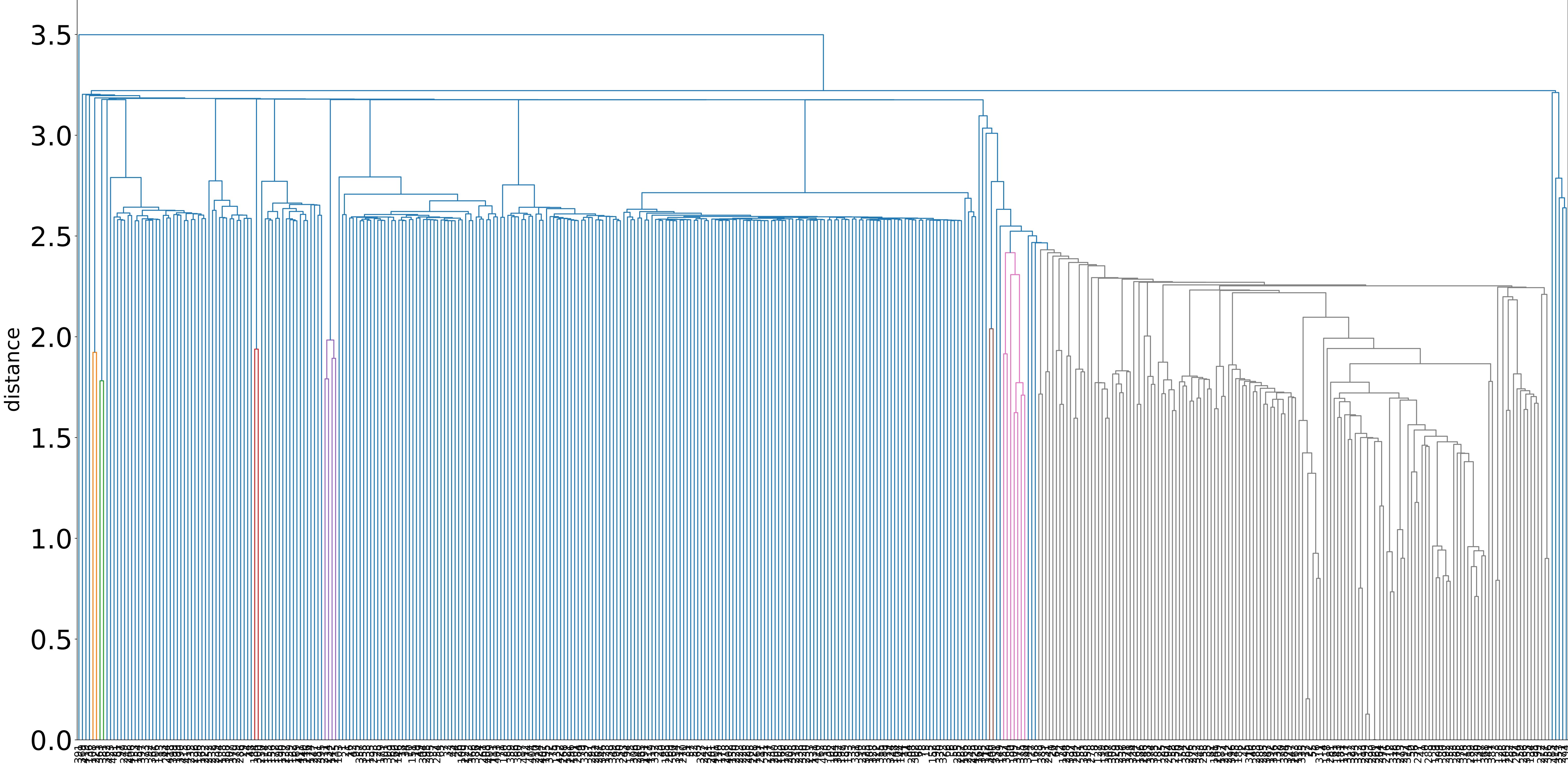Hierarchical Clustering Dendrogram - gap: 0.50, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.31694265502854563

Average values of 15 clustering indices
gap: 0.50, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.548	0.434
3	1.0	0.992	0.984	0.986	0.007	0.625	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.494	0.399
4	1.0	0.992	0.983	0.979	0.008	0.697	0.992	0.046	0.992	0.0	0.968	0.967	1.997	0.547	0.398
5	1.0	0.992	0.983	0.975	0.01	0.746	0.992	0.053	0.992	0.0	0.968	0.967	1.996	0.625	0.397
6	1.0	0.992	0.983	0.985	0.011	0.784	0.992	0.062	0.992	0.0	0.968	0.967	1.995	0.687	0.396
7	1.0	0.989	0.978	0.981	0.014	0.766	0.989	0.078	0.989	0.0	0.958	0.956	1.995	0.722	0.396
8	1.0	0.983	0.966	0.961	0.018	0.715	0.983	0.091	0.983	0.0	0.937	0.935	1.993	0.693	0.394
9	1.0	0.952	0.906	0.89	0.034	0.51	0.951	0.134	0.953	0.0	0.835	0.829	1.987	0.635	0.394
10	1.0	0.946	0.895	0.886	0.038	0.506	0.945	0.148	0.947	0.0	0.818	0.81	1.986	0.622	0.394
11	1.0	0.9	0.812	0.773	0.061	0.36	0.896	0.19	0.904	0.0	0.696	0.684	1.972	0.571	0.397
12	1.0	0.896	0.806	0.753	0.064	0.365	0.892	0.17	0.9	0.0	0.689	0.675	1.971	0.568	0.397
13	1.0	0.884	0.784	0.739	0.07	0.351	0.879	0.187	0.889	0.0	0.662	0.645	1.971	0.55	0.397
14	1.0	0.834	0.702	0.58	0.094	0.242	0.825	0.161	0.844	0.0	0.56	0.541	1.951	0.513	0.397
15	1.0	0.716	0.529	0.177	0.151	0.057	0.692	0.149	0.742	0.0	0.38	0.36	1.927	0.494	0.397
16	1.0	0.63	0.421	-0.212	0.191	-0.06	0.593	0.092	0.669	-0.0	0.285	0.267	1.886	0.472	0.397
17	1.0	0.43	0.226	-1.591	0.312	-0.326	0.369	-0.046	0.502	-0.0	0.139	0.128	1.841	0.448	0.397
18	1.0	0.425	0.223	-1.592	0.313	-0.338	0.365	-0.167	0.494	-0.0	0.138	0.126	1.839	0.478	0.385
19	1.0	0.418	0.22	-1.583	0.316	-0.35	0.361	-0.3	0.484	-0.0	0.136	0.124	1.836	0.505	0.373
20	1.0	0.412	0.217	-1.573	0.318	-0.361	0.356	-0.43	0.475	-0.0	0.135	0.122	1.833	0.53	0.366

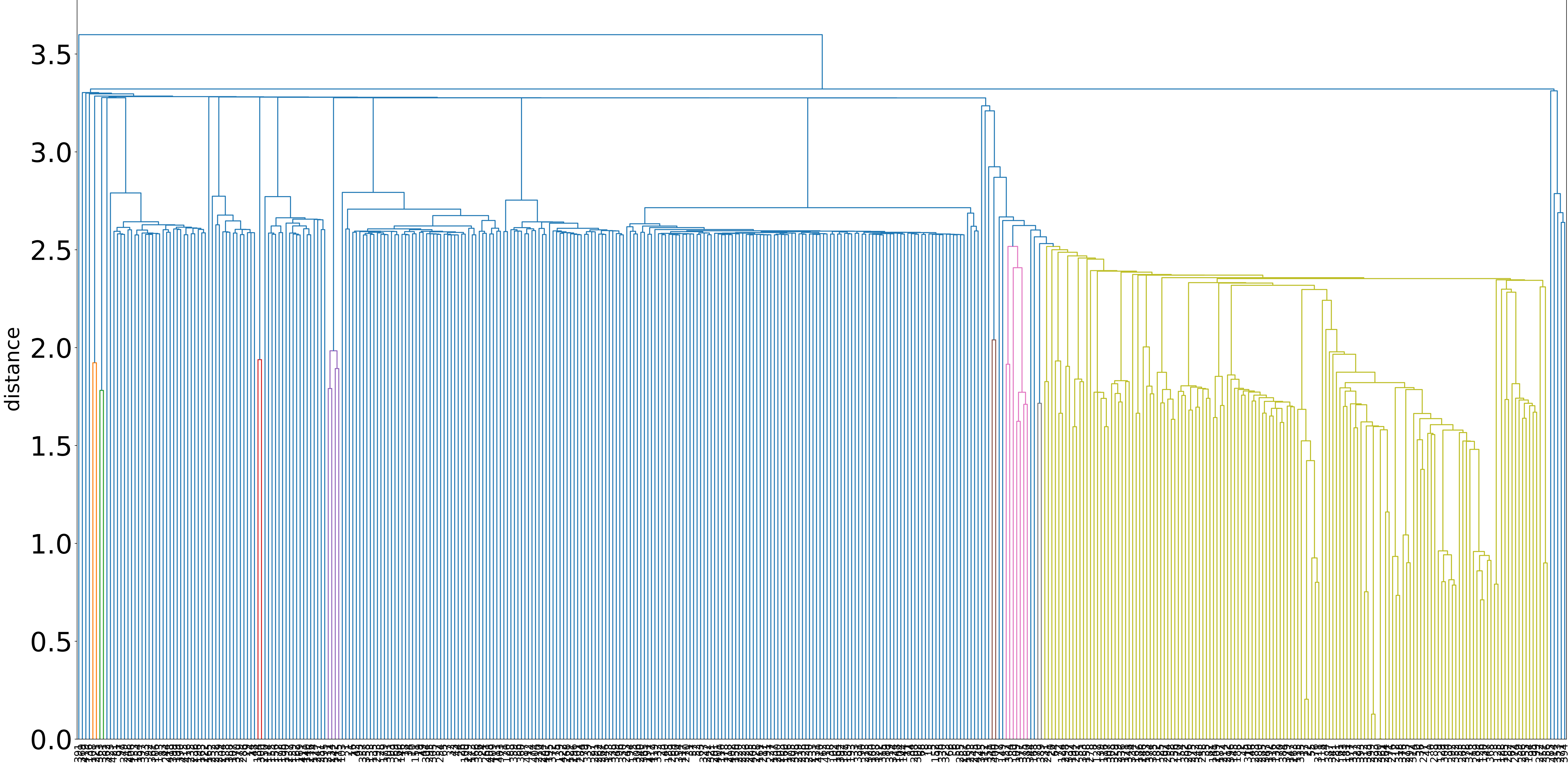Hierarchical Clustering Dendrogram - gap: 0.60, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.32358844856525515

Average values of 15 clustering indices
gap: 0.60, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.545	0.41
3	1.0	0.992	0.984	0.988	0.007	0.626	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.495	0.378
4	1.0	0.992	0.983	0.987	0.008	0.699	0.992	0.047	0.992	0.0	0.968	0.967	1.997	0.552	0.377
5	1.0	0.992	0.983	0.985	0.01	0.748	0.992	0.054	0.992	0.0	0.968	0.967	1.996	0.629	0.376
6	1.0	0.992	0.983	0.985	0.011	0.784	0.992	0.062	0.992	0.0	0.968	0.967	1.995	0.69	0.375
7	1.0	0.989	0.978	0.98	0.014	0.766	0.989	0.077	0.989	0.0	0.958	0.956	1.995	0.726	0.375
8	1.0	0.983	0.966	0.97	0.018	0.719	0.983	0.097	0.983	0.0	0.937	0.935	1.993	0.699	0.374
9	1.0	0.93	0.865	0.837	0.045	0.415	0.928	0.152	0.932	0.0	0.771	0.763	1.978	0.633	0.373
10	1.0	0.898	0.809	0.767	0.061	0.339	0.894	0.187	0.902	0.0	0.69	0.679	1.971	0.589	0.373
11	1.0	0.892	0.797	0.747	0.065	0.338	0.887	0.186	0.896	0.0	0.676	0.663	1.969	0.583	0.373
12	1.0	0.846	0.72	0.609	0.087	0.241	0.837	0.202	0.854	0.0	0.578	0.562	1.953	0.545	0.377
13	1.0	0.844	0.718	0.621	0.088	0.255	0.836	0.189	0.853	0.0	0.577	0.56	1.953	0.538	0.377
14	1.0	0.831	0.697	0.591	0.095	0.244	0.822	0.187	0.841	0.0	0.555	0.535	1.952	0.525	0.377
15	1.0	0.83	0.696	0.579	0.097	0.248	0.821	0.145	0.84	0.0	0.554	0.533	1.952	0.556	0.377
16	1.0	0.711	0.524	0.153	0.153	0.05	0.687	0.075	0.736	0.0	0.376	0.355	1.929	0.537	0.377
17	1.0	0.624	0.416	-0.222	0.194	-0.065	0.588	0.018	0.663	-0.0	0.282	0.263	1.89	0.515	0.377
18	1.0	0.424	0.223	-1.589	0.314	-0.338	0.365	-0.161	0.493	-0.0	0.138	0.126	1.844	0.491	0.377
19	1.0	0.418	0.22	-1.583	0.316	-0.349	0.361	-0.289	0.485	-0.0	0.136	0.124	1.842	0.518	0.367
20	1.0	0.412	0.217	-1.579	0.318	-0.362	0.357	-0.444	0.476	-0.0	0.135	0.122	1.838	0.542	0.36

Hierarchical Clustering Dendrogram - gap: 0.70, Tp: 0.25, single link

distance

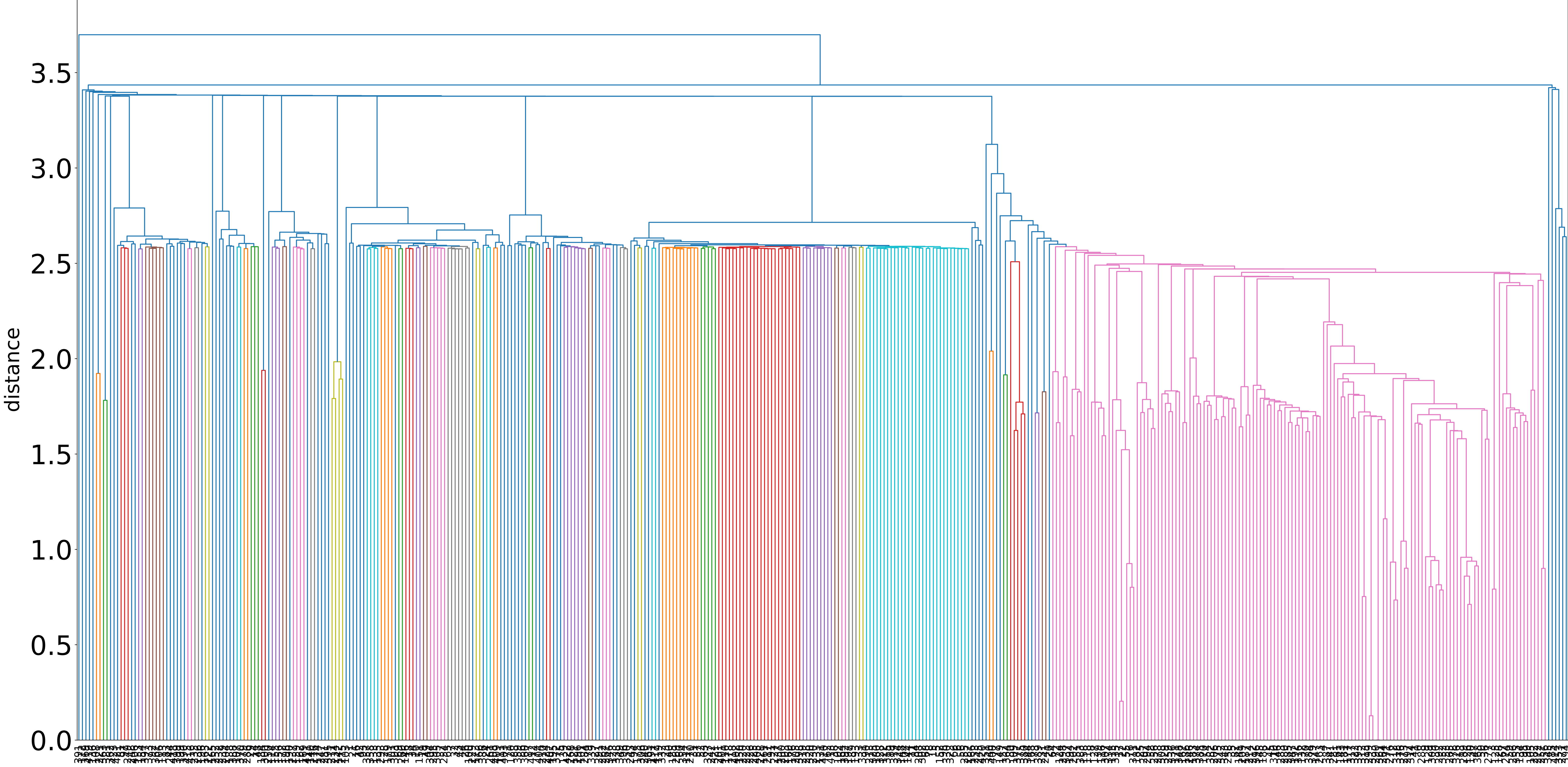patient index

Cophenetic Correlation Coefficient: 0.34331764780486873

Average values of 15 clustering indices
gap: 0.70, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.54	0.394
3	1.0	0.992	0.984	0.987	0.007	0.625	0.992	0.037	0.992	0.0	0.968	0.968	1.997	0.49	0.364
4	1.0	0.992	0.983	0.986	0.008	0.701	0.992	0.047	0.992	0.0	0.968	0.967	1.997	0.556	0.363
5	1.0	0.992	0.983	0.983	0.01	0.749	0.992	0.055	0.992	0.0	0.968	0.967	1.996	0.633	0.362
6	1.0	0.992	0.983	0.983	0.011	0.783	0.992	0.061	0.992	0.0	0.968	0.967	1.996	0.693	0.362
7	1.0	0.989	0.978	0.978	0.014	0.765	0.989	0.076	0.989	0.0	0.958	0.956	1.995	0.729	0.361
8	1.0	0.703	0.983	0.36	0.966	0.964	0.018	0.717	0.983	0.093	0.983	0.0	0.937	0.935	1.993	0.703	0.36
9	1.0	0.93	0.865	0.843	0.045	0.417	0.928	0.155	0.932	0.0	0.771	0.763	1.98	0.639	0.36
10	1.0	0.927	0.86	0.832	0.047	0.424	0.924	0.152	0.929	0.0	0.763	0.754	1.979	0.675	0.36
11	1.0	0.895	0.803	0.748	0.063	0.341	0.891	0.175	0.899	0.0	0.683	0.67	1.972	0.634	0.36
12	1.0	0.888	0.791	0.741	0.068	0.345	0.884	0.18	0.893	0.0	0.669	0.655	1.971	0.624	0.359
13	1.0	0.841	0.713	0.61	0.09	0.25	0.833	0.192	0.85	0.0	0.572	0.554	1.955	0.589	0.371
14	1.0	0.84	0.712	0.606	0.091	0.258	0.832	0.165	0.849	0.0	0.571	0.552	1.955	0.58	0.371
15	1.0	0.827	0.691	0.571	0.098	0.244	0.817	0.146	0.837	0.0	0.549	0.528	1.954	0.567	0.371
16	1.0	0.826	0.69	0.571	0.099	0.25	0.816	0.107	0.836	0.0	0.549	0.526	1.954	0.594	0.371
17	1.0	0.707	0.518	0.145	0.155	0.049	0.683	0.024	0.732	0.0	0.372	0.35	1.934	0.575	0.371
18	1.0	0.619	0.412	-0.251	0.195	-0.076	0.583	-0.094	0.657	-0.0	0.28	0.259	1.896	0.553	0.371
19	1.0	0.418	0.22	-1.585	0.316	-0.35	0.361	-0.297	0.485	-0.0	0.136	0.124	1.845	0.53	0.371
20	1.0	0.412	0.217	-1.581	0.317	-0.363	0.357	-0.462	0.475	-0.0	0.135	0.122	1.842	0.553	0.367

Hierarchical Clustering Dendrogram - gap: 0.80, Tp: 0.25, single link

distance

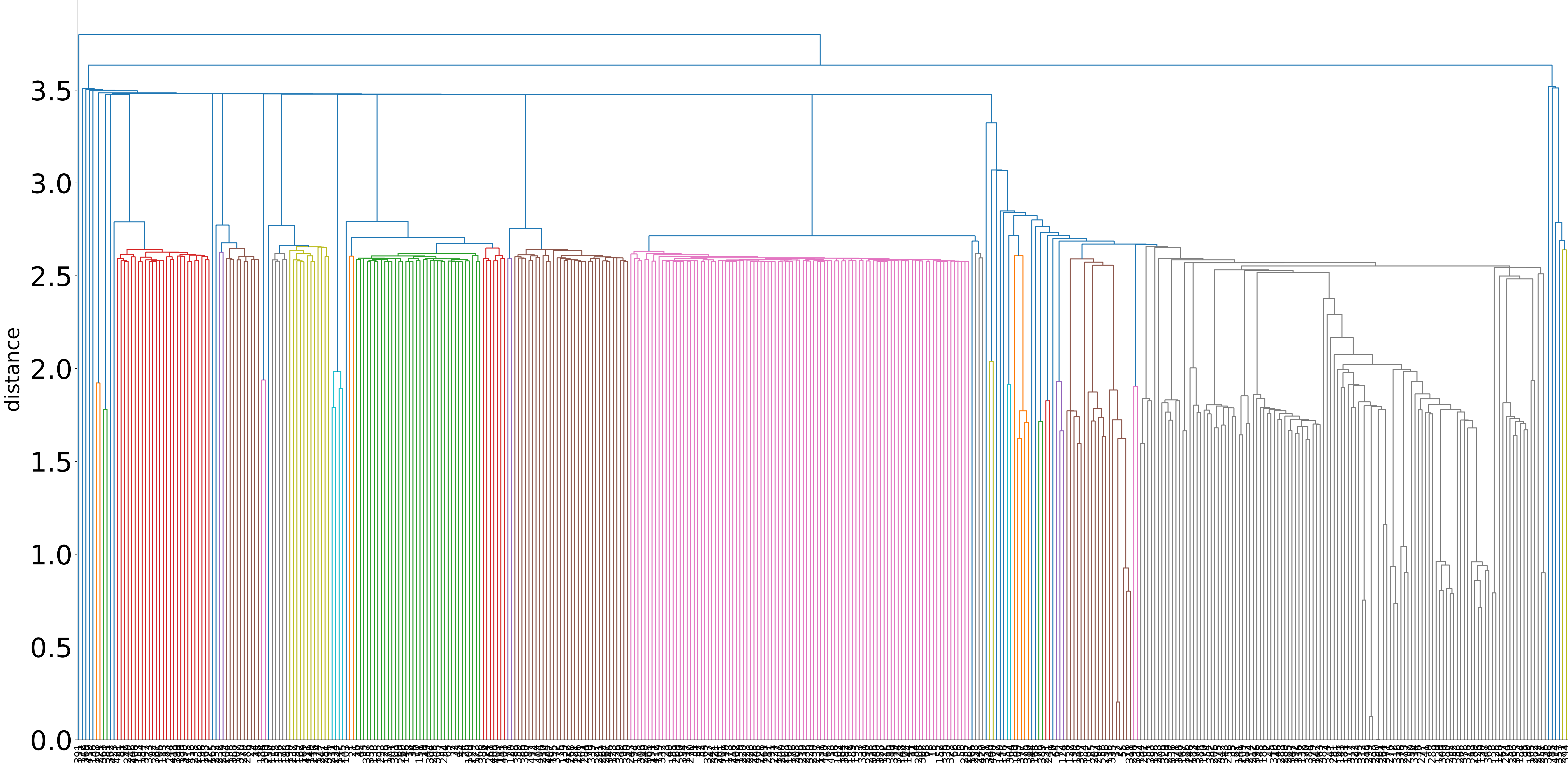patient index

Cophenetic Correlation Coefficient: 0.368659329793999

Average values of 15 clustering indices
gap: 0.80, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.536	0.38
3	1.0	0.989	0.978	0.977	0.008	0.566	0.989	0.042	0.989	0.0	0.958	0.957	1.996	0.477	0.353
4	1.0	0.989	0.978	0.979	0.01	0.646	0.989	0.053	0.989	0.0	0.958	0.957	1.996	0.545	0.352
5	1.0	0.989	0.978	0.974	0.011	0.695	0.989	0.061	0.989	0.0	0.958	0.957	1.996	0.64	0.351
6	1.0	0.986	0.972	0.971	0.014	0.693	0.986	0.076	0.986	0.0	0.947	0.946	1.995	0.697	0.351
7	1.0	0.986	0.972	0.968	0.015	0.722	0.986	0.082	0.986	0.0	0.947	0.946	1.995	0.74	0.35
8	1.0	0.986	0.972	0.971	0.017	0.751	0.986	0.089	0.986	0.0	0.947	0.945	1.994	0.772	0.35
9	1.0	0.983	0.966	0.966	0.019	0.739	0.983	0.101	0.983	0.0	0.937	0.934	1.993	0.791	0.349
10	1.0	0.977	0.955	0.953	0.024	0.705	0.977	0.117	0.977	0.0	0.917	0.913	1.992	0.764	0.348
11	1.0	0.923	0.853	0.831	0.05	0.435	0.921	0.157	0.925	0.0	0.755	0.744	1.979	0.709	0.348
12	1.0	0.92	0.848	0.82	0.053	0.437	0.917	0.151	0.922	0.0	0.748	0.735	1.978	0.733	0.348
13	1.0	0.887	0.79	0.748	0.069	0.359	0.883	0.169	0.892	0.0	0.669	0.653	1.972	0.696	0.348
14	1.0	0.881	0.779	0.724	0.073	0.354	0.876	0.151	0.886	0.0	0.656	0.638	1.97	0.683	0.348
15	1.0	0.833	0.701	0.579	0.095	0.251	0.824	0.131	0.843	0.0	0.56	0.54	1.955	0.651	0.366
16	1.0	0.832	0.699	0.586	0.097	0.263	0.823	0.109	0.841	0.0	0.56	0.538	1.956	0.641	0.366
17	1.0	0.819	0.679	0.556	0.103	0.248	0.809	0.085	0.829	0.0	0.538	0.514	1.955	0.627	0.366
18	1.0	0.817	0.677	0.539	0.104	0.248	0.808	0.013	0.827	0.0	0.538	0.512	1.955	0.648	0.366
19	1.0	0.696	0.507	0.115	0.16	0.041	0.673	-0.135	0.721	0.0	0.365	0.34	1.935	0.628	0.366
20	1.0	0.608	0.402	-0.28	0.2	-0.089	0.573	-0.289	0.644	-0.0	0.274	0.251	1.898	0.608	0.366

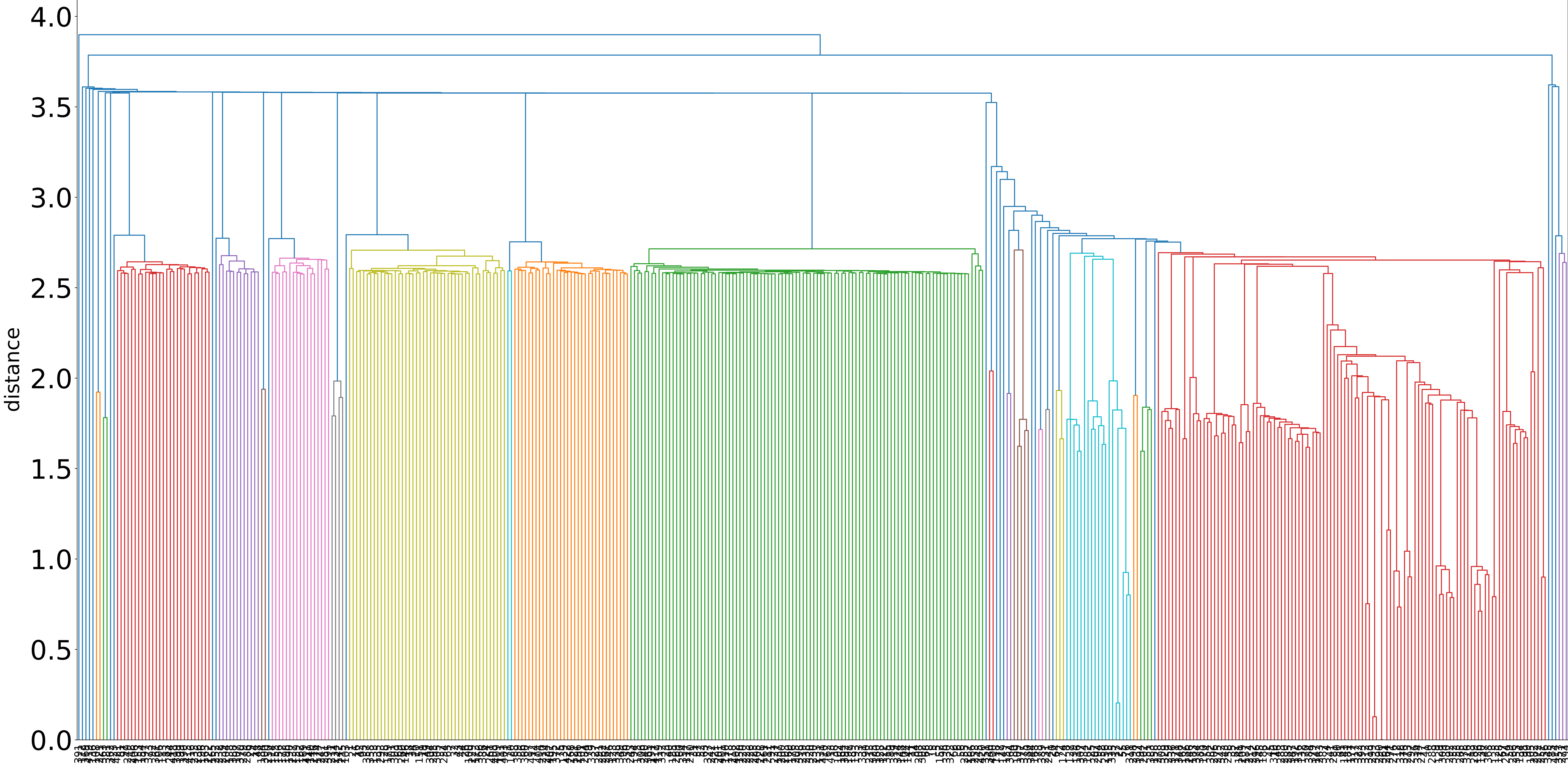Hierarchical Clustering Dendrogram - gap: 0.90, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.3917847895778007

Average values of 15 clustering indices
gap: 0.90, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.532	0.368
3	1.0	0.989	0.978	0.973	0.008	0.565	0.989	0.042	0.989	0.0	0.958	0.957	1.997	0.472	0.352
4	1.0	0.989	0.978	0.967	0.01	0.638	0.989	0.051	0.989	0.0	0.958	0.957	1.997	0.546	0.341
5	1.0	0.989	0.978	0.979	0.011	0.696	0.989	0.062	0.989	0.0	0.958	0.957	1.997	0.643	0.34
6	1.0	0.986	0.972	0.967	0.014	0.69	0.986	0.075	0.986	0.0	0.947	0.946	1.996	0.7	0.34
7	1.0	0.986	0.972	0.972	0.015	0.724	0.986	0.083	0.986	0.0	0.947	0.946	1.995	0.743	0.339
8	1.994	1.0	0.774	0.986	0.339	0.972	0.967	0.945	0.017	0.749	0.986	0.086	0.986	0.0	0.947
9	1.0	0.983	0.966	0.963	0.019	0.737	0.983	0.099	0.983	0.0	0.937	0.934	1.994	0.794	0.339
10	1.0	0.977	0.955	0.95	0.024	0.704	0.977	0.112	0.977	0.0	0.917	0.913	1.992	0.766	0.338
11	1.0	0.923	0.854	0.83	0.05	0.433	0.921	0.156	0.926	0.0	0.755	0.744	1.98	0.714	0.337
12	1.0	0.92	0.847	0.831	0.053	0.443	0.917	0.162	0.922	0.0	0.748	0.735	1.98	0.737	0.337
13	1.0	0.887	0.79	0.733	0.069	0.355	0.883	0.153	0.892	0.0	0.669	0.653	1.974	0.701	0.337
14	1.0	0.881	0.779	0.73	0.073	0.356	0.876	0.159	0.886	0.0	0.656	0.638	1.973	0.688	0.337
15	1.0	0.833	0.701	0.598	0.095	0.258	0.824	0.153	0.843	0.0	0.56	0.54	1.959	0.658	0.361
16	1.0	0.832	0.699	0.581	0.096	0.26	0.823	0.1	0.841	0.0	0.56	0.538	1.959	0.649	0.361
17	1.0	0.819	0.679	0.555	0.103	0.248	0.809	0.079	0.829	0.0	0.538	0.514	1.958	0.635	0.361
18	1.0	0.817	0.677	0.545	0.104	0.25	0.808	0.022	0.827	0.0	0.538	0.512	1.958	0.656	0.361
19	1.0	0.696	0.506	0.127	0.161	0.045	0.672	-0.114	0.721	0.0	0.365	0.339	1.94	0.637	0.361
20	1.0	0.607	0.401	-0.273	0.201	-0.087	0.573	-0.273	0.644	-0.0	0.274	0.251	1.905	0.617	0.361

Hierarchical Clustering Dendrogram - gap: 1.00, Tp: 0.25, single link

Cophenetic Correlation Coefficient: 0.4055809499175132

Average values of 15 clustering indices
gap: 1.00, Tp: 0.25, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2	1.0	1.0	1.0	1.0	0.001	1.0	1.0	0.008	1.0	0.0	1.0	1.0	2.0	0.527	0.357
3	1.0	0.989	0.978	0.979	0.008	0.565	0.989	0.042	0.989	0.0	0.958	0.957	1.997	0.467	0.347
4	1.0	0.989	0.978	0.98	0.01	0.645	0.989	0.053	0.989	0.0	0.958	0.957	1.997	0.546	0.332
5	1.0	0.989	0.978	0.977	0.011	0.695	0.989	0.062	0.989	0.0	0.958	0.957	1.997	0.647	0.331
6	1.0	0.986	0.972	0.973	0.014	0.692	0.986	0.076	0.986	0.0	0.947	0.946	1.996	0.703	0.33
7	1.0	0.986	0.972	0.973	0.015	0.725	0.986	0.083	0.986	0.0	0.947	0.946	1.995	0.745	0.33
8	1.0	0.986	0.972	0.97	0.016	0.748	0.986	0.086	0.986	0.0	0.947	0.945	1.995	0.776	0.33
9	1.0	0.983	0.966	0.963	0.019	0.738	0.983	0.1	0.983	0.0	0.937	0.934	1.994	0.796	0.329
10	1.0	0.977	0.955	0.948	0.023	0.702	0.977	0.111	0.977	0.0	0.917	0.913	1.993	0.768	0.328
11	1.0	0.923	0.853	0.831	0.05	0.434	0.921	0.156	0.925	0.0	0.755	0.744	1.982	0.718	0.328
12	1.0	0.92	0.847	0.831	0.053	0.444	0.917	0.163	0.922	0.0	0.748	0.735	1.981	0.74	0.328
13	1.0	0.887	0.79	0.744	0.069	0.358	0.883	0.163	0.892	0.0	0.669	0.653	1.976	0.706	0.328
14	1.0	0.881	0.779	0.726	0.073	0.356	0.876	0.151	0.886	0.0	0.656	0.638	1.975	0.692	0.328
15	1.0	0.833	0.701	0.586	0.095	0.254	0.824	0.137	0.843	0.0	0.56	0.54	1.962	0.664	0.354
16	1.0	0.832	0.699	0.587	0.096	0.263	0.823	0.104	0.841	0.0	0.56	0.538	1.962	0.656	0.354
17	1.0	0.819	0.679	0.542	0.103	0.242	0.809	0.059	0.829	0.0	0.538	0.514	1.961	0.643	0.354
18	1.0	0.817	0.677	0.539	0.104	0.249	0.808	0.009	0.827	0.0	0.538	0.512	1.961	0.663	0.354
19	1.0	0.697	0.507	0.121	0.16	0.042	0.673	-0.114	0.721	0.0	0.365	0.34	1.945	0.645	0.354
20	1.0	0.608	0.402	-0.289	0.2	-0.092	0.574	-0.303	0.644	-0.0	0.274	0.252	1.911	0.626	0.354