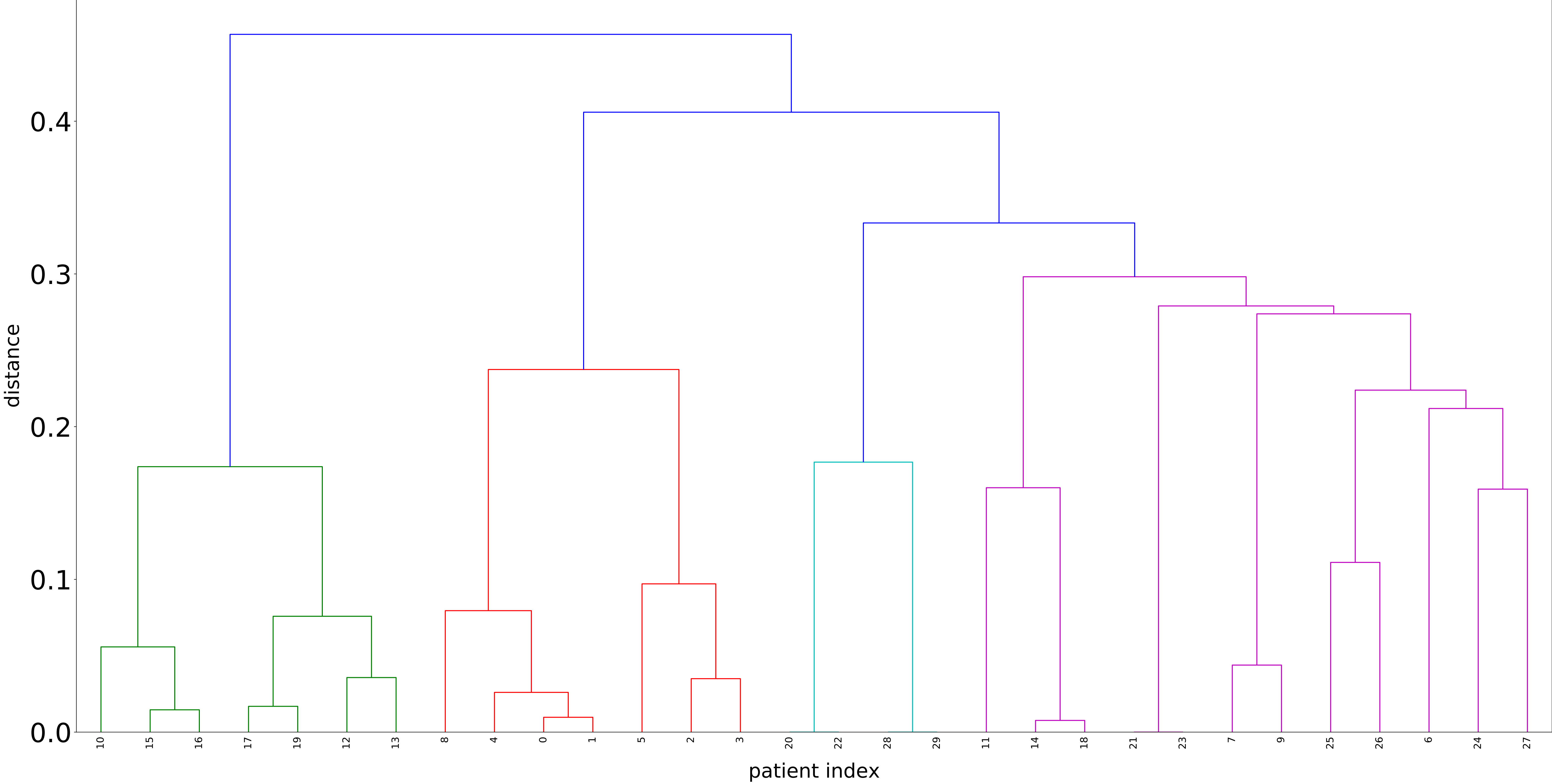


Hierarchical Clustering Dendrogram - gap: -0.40, Tp: 0.25, ward link

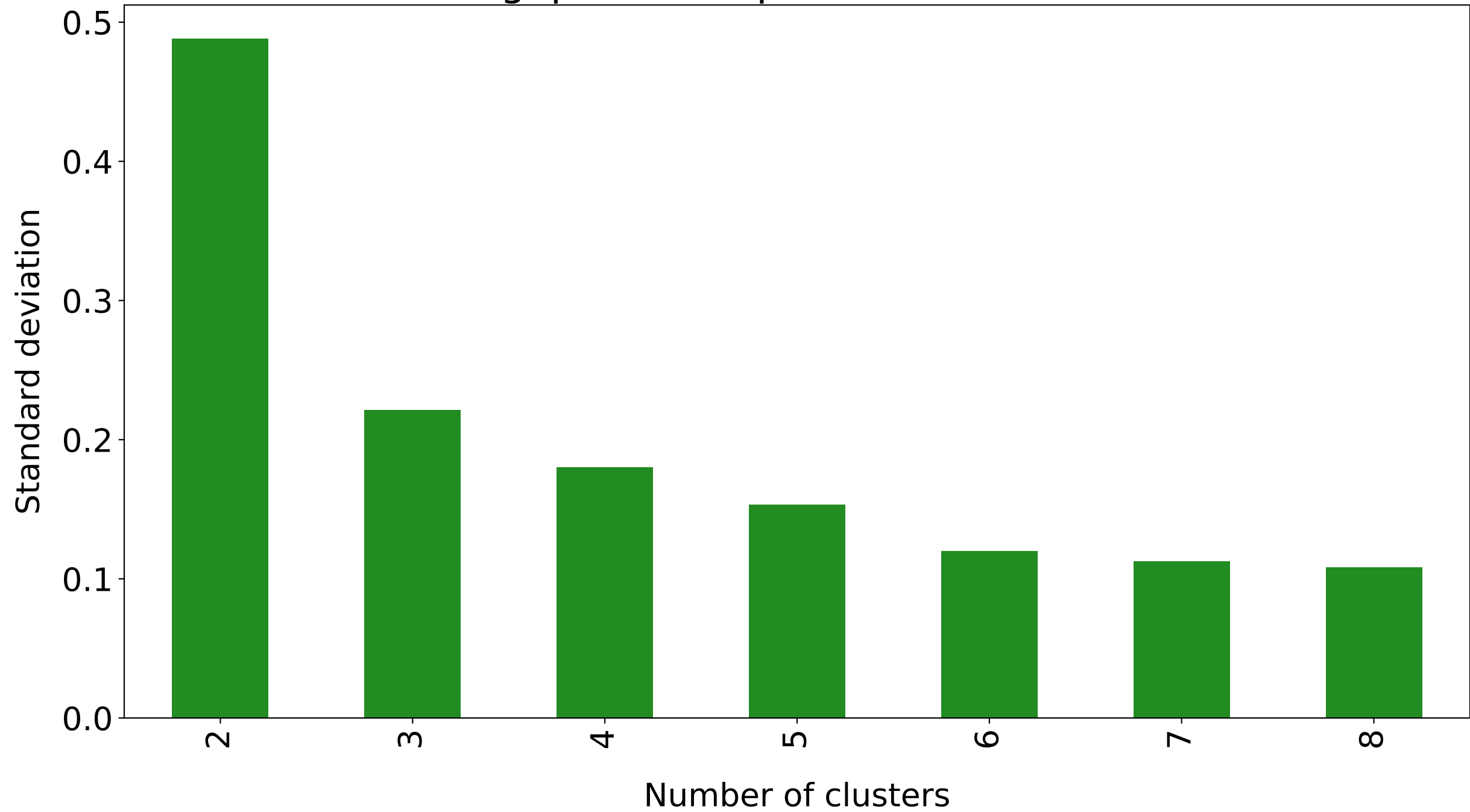


Cophenetic Correlation Coefficient: 0.797832016033

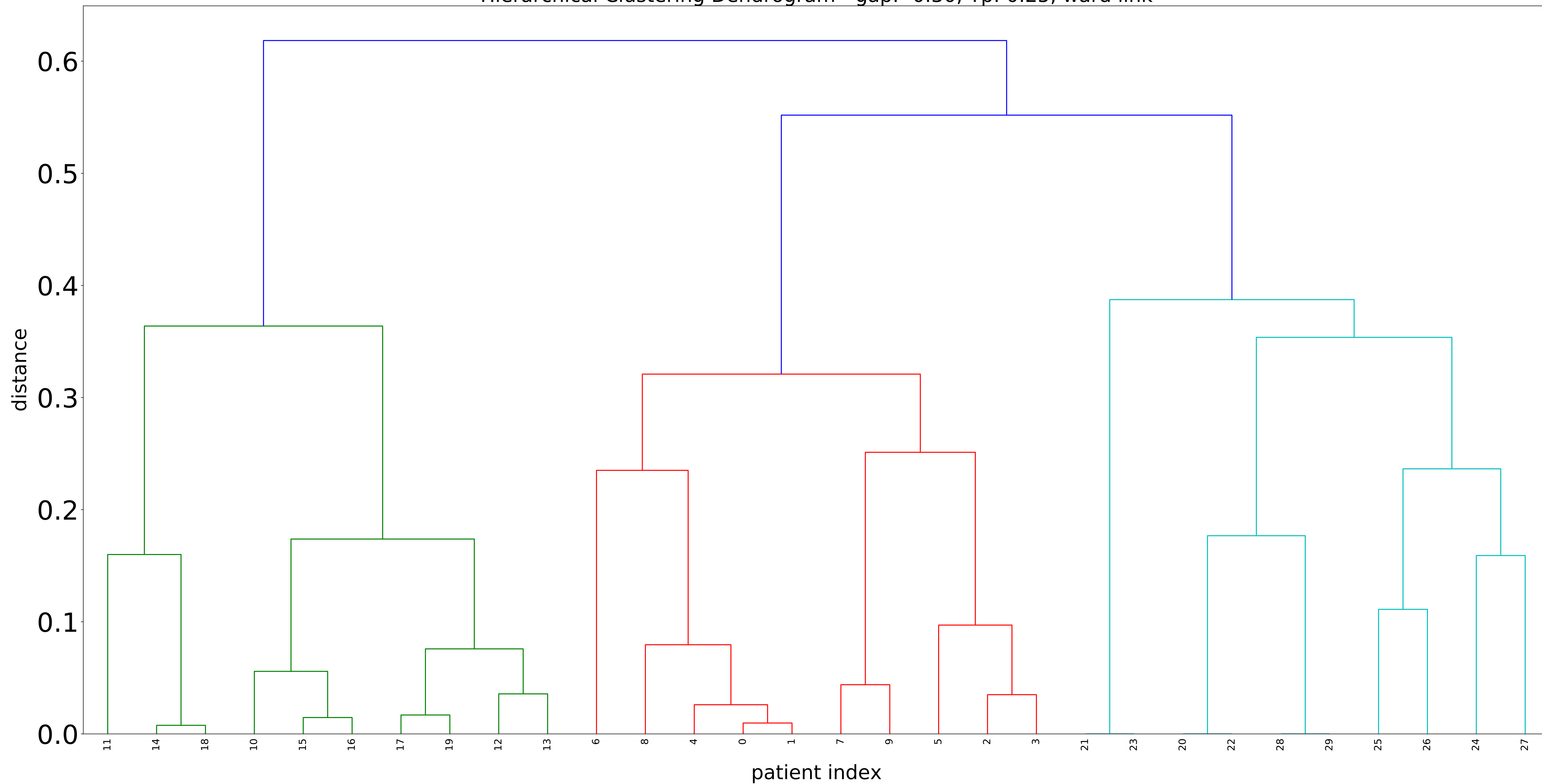
Average values of five clustering indices  
gap: -0.40, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.848	0.674	0.88	0.825	0.672
3.0	0.919	0.827	0.893	0.83	0.815
4.0	0.91	0.767	0.829	0.728	0.748
5.0	0.916	0.737	0.791	0.67	0.723
6.0	0.942	0.79	0.826	0.714	0.759
7.0	0.96	0.831	0.856	0.758	0.789
8.0	0.964	0.822	0.844	0.74	0.81

Standard deviation of Adjusted Rand versus number of clusters  
gap: -0.40, Tp: 0.25, ward link



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

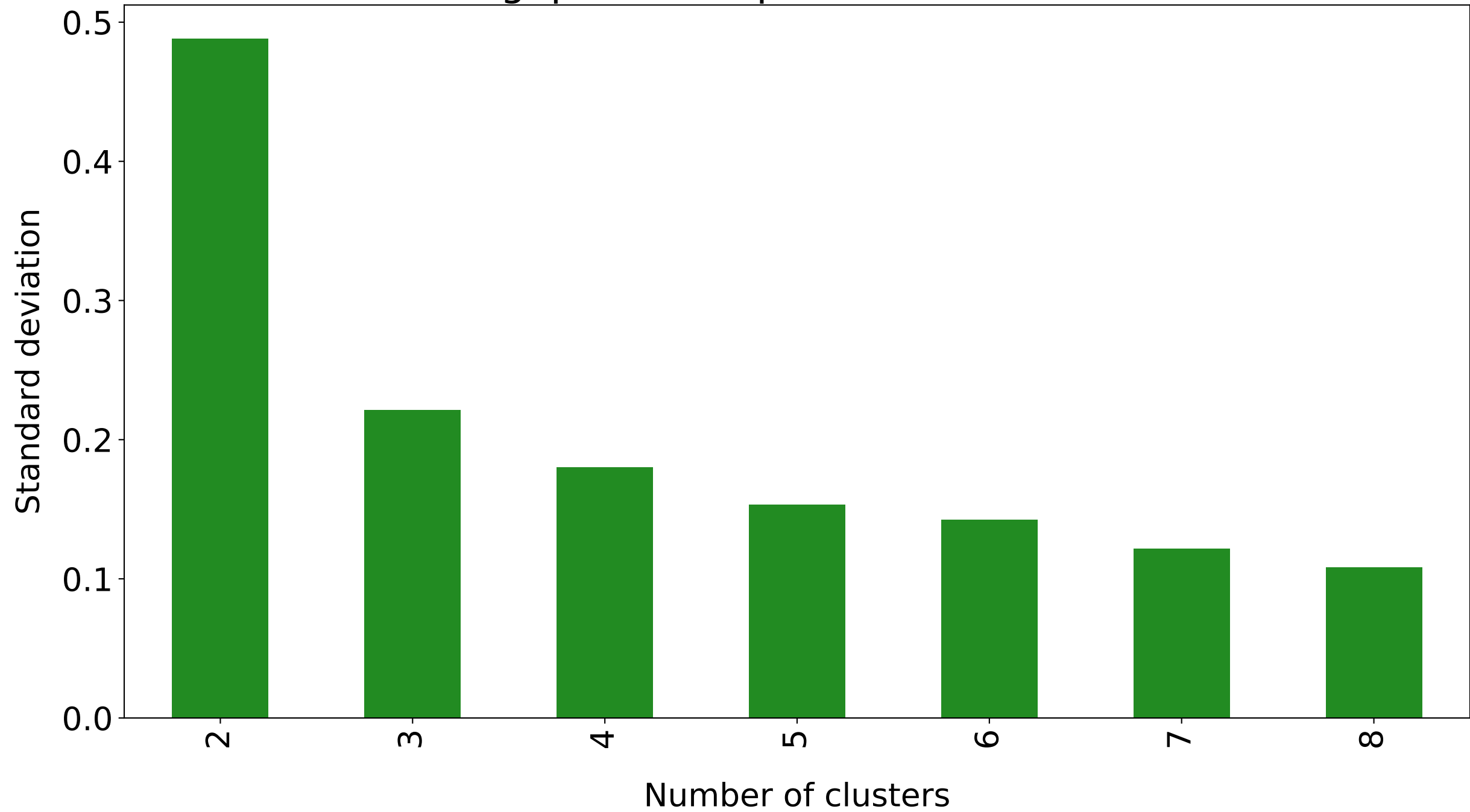


Cophenetic Correlation Coefficient: 0.88963630055

Average values of five clustering indices  
gap: -0.30, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.812	0.622	0.826	0.75	0.625
3.0	0.971	0.932	0.954	0.921	0.934
4.0	0.954	0.88	0.913	0.849	0.843
5.0	0.931	0.797	0.843	0.74	0.755
6.0	0.94	0.794	0.835	0.727	0.739
7.0	0.964	0.848	0.869	0.782	0.867
8.0	0.965	0.834	0.855	0.755	0.845

Standard deviation of Adjusted Rand versus number of clusters  
gap: -0.30, Tp: 0.25, ward link



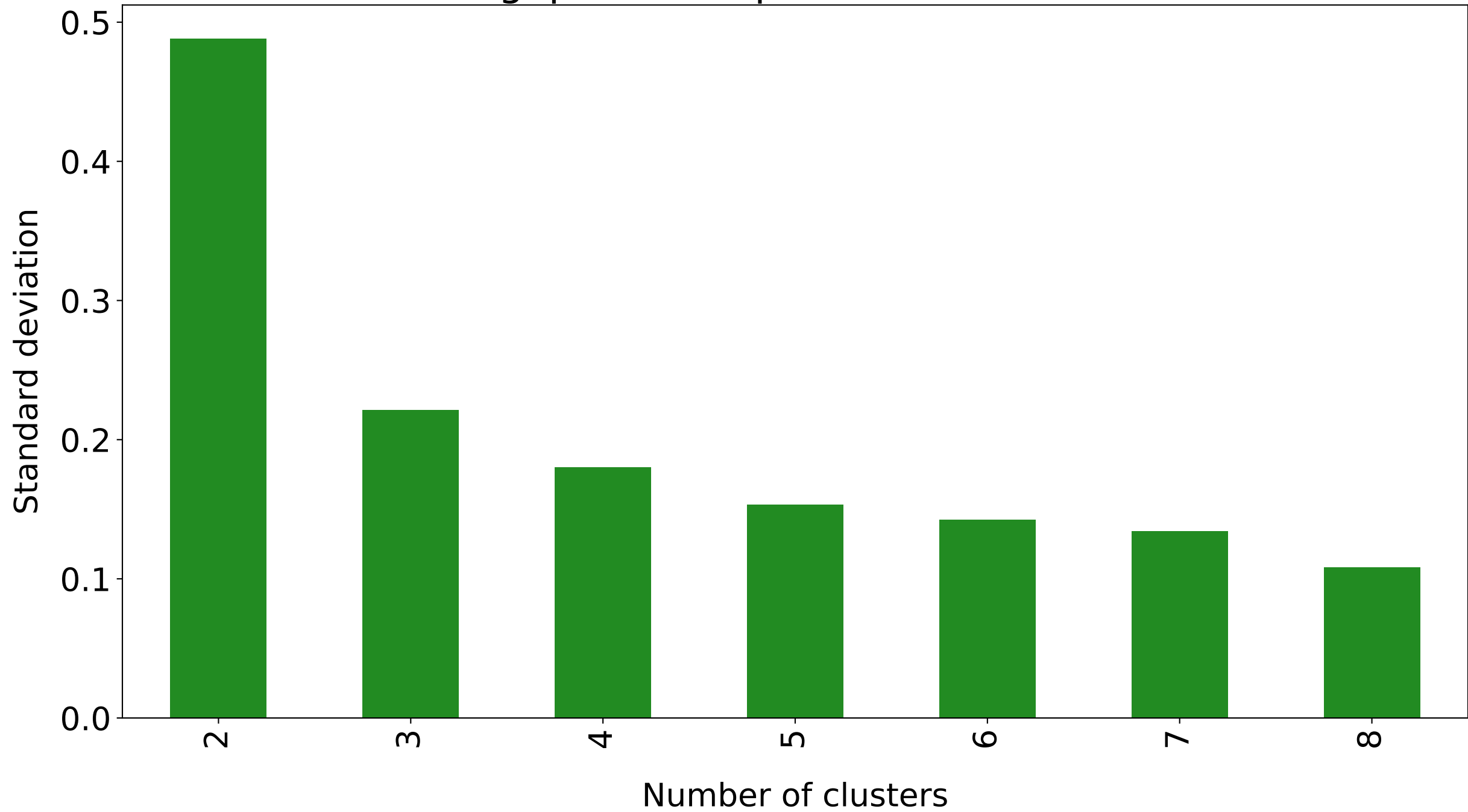


Average values of five clustering indices  
gap: -0.20, Tp: 0.25, ward link

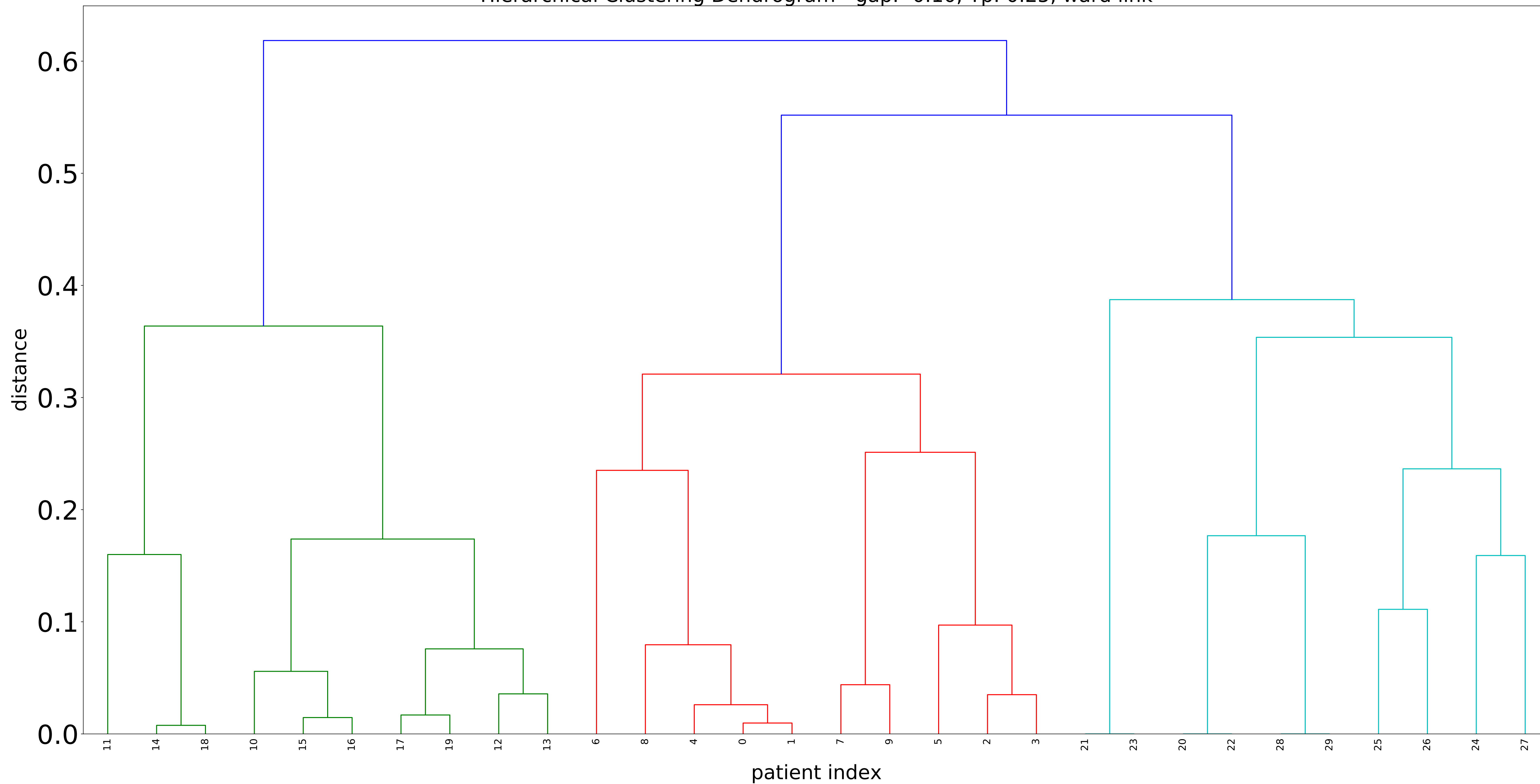
k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.809	0.616	0.824	0.747	0.62
3.0	0.969	0.928	0.951	0.916	0.932
4.0	0.947	0.863	0.9	0.828	0.823
5.0	0.929	0.791	0.839	0.733	0.746
6.0	0.944	0.811	0.848	0.747	0.761
7.0	0.966	0.858	0.878	0.8	0.877
8.0	0.967	0.84	0.86	0.763	0.846



Standard deviation of Adjusted Rand versus number of clusters  
gap: -0.20, Tp: 0.25, ward link



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

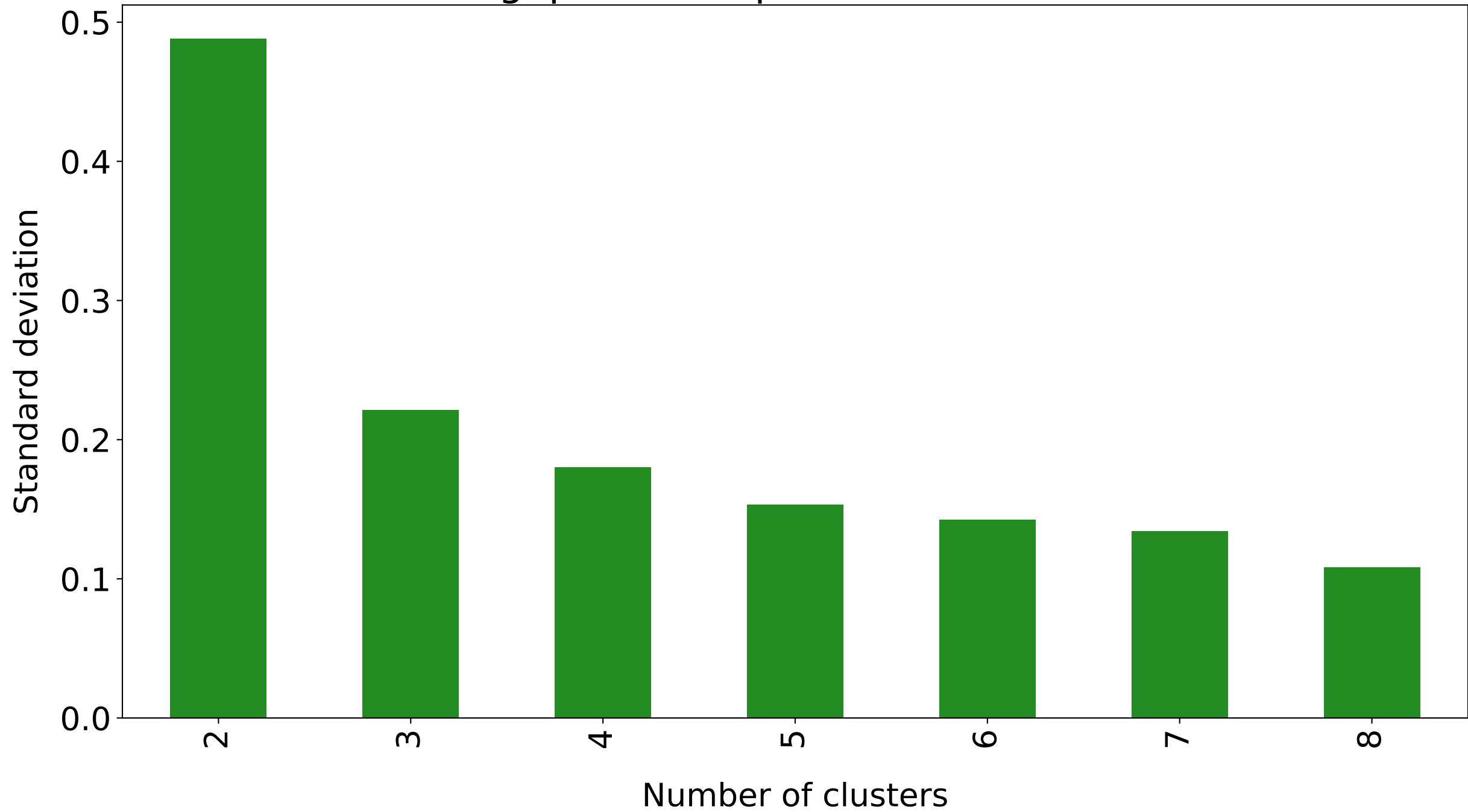


Cophenetic Correlation Coefficient: 0.88963630055

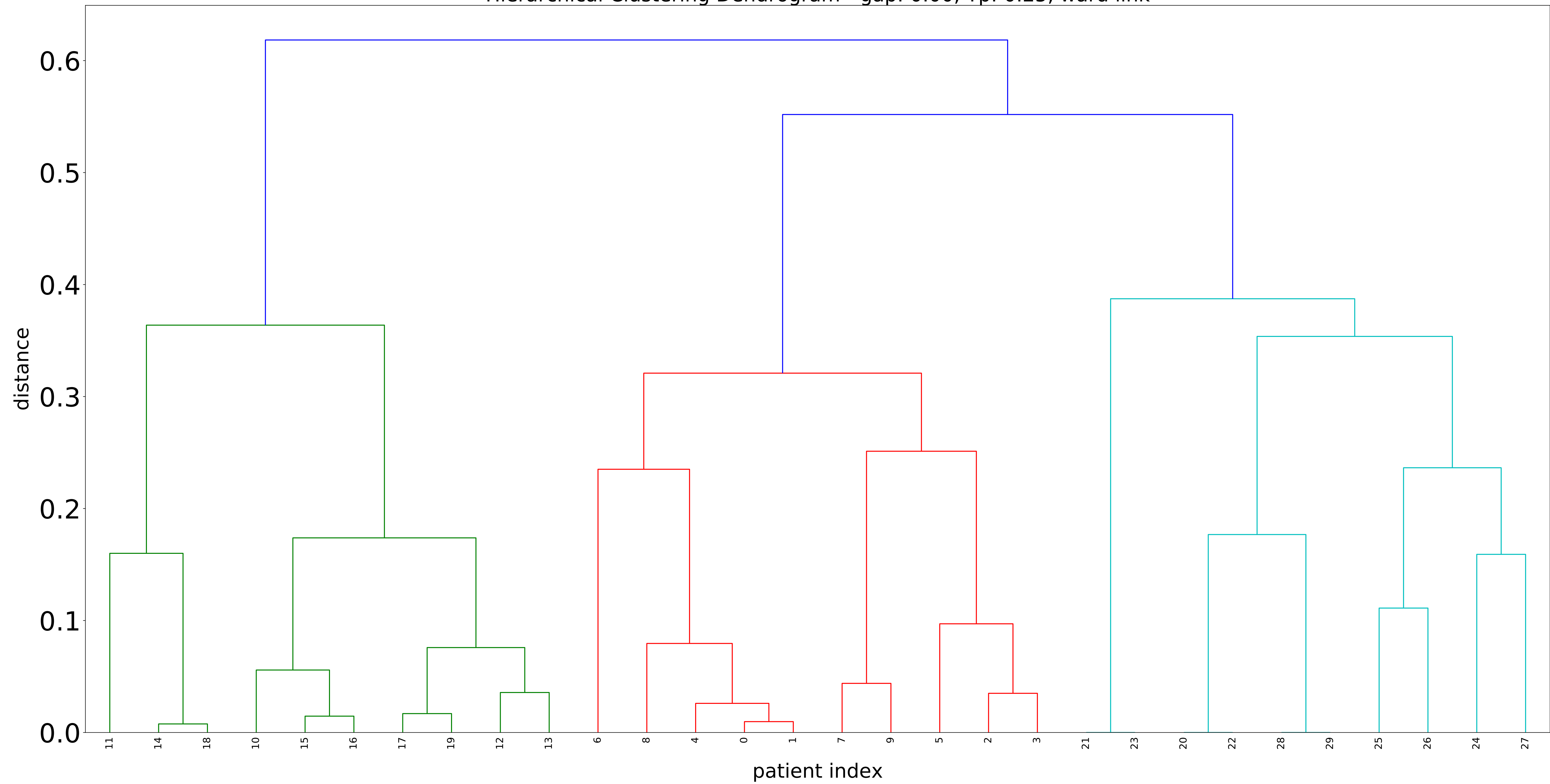
Average values of five clustering indices  
gap: -0.10, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.805	0.608	0.821	0.746	0.61
3.0	0.976	0.945	0.962	0.935	0.949
4.0	0.951	0.875	0.909	0.843	0.835
5.0	0.93	0.794	0.841	0.735	0.748
6.0	0.943	0.807	0.845	0.741	0.751
7.0	0.961	0.833	0.857	0.765	0.858
8.0	0.962	0.821	0.843	0.738	0.836

Standard deviation of Adjusted Rand versus number of clusters  
gap: -0.10, Tp: 0.25, ward link



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

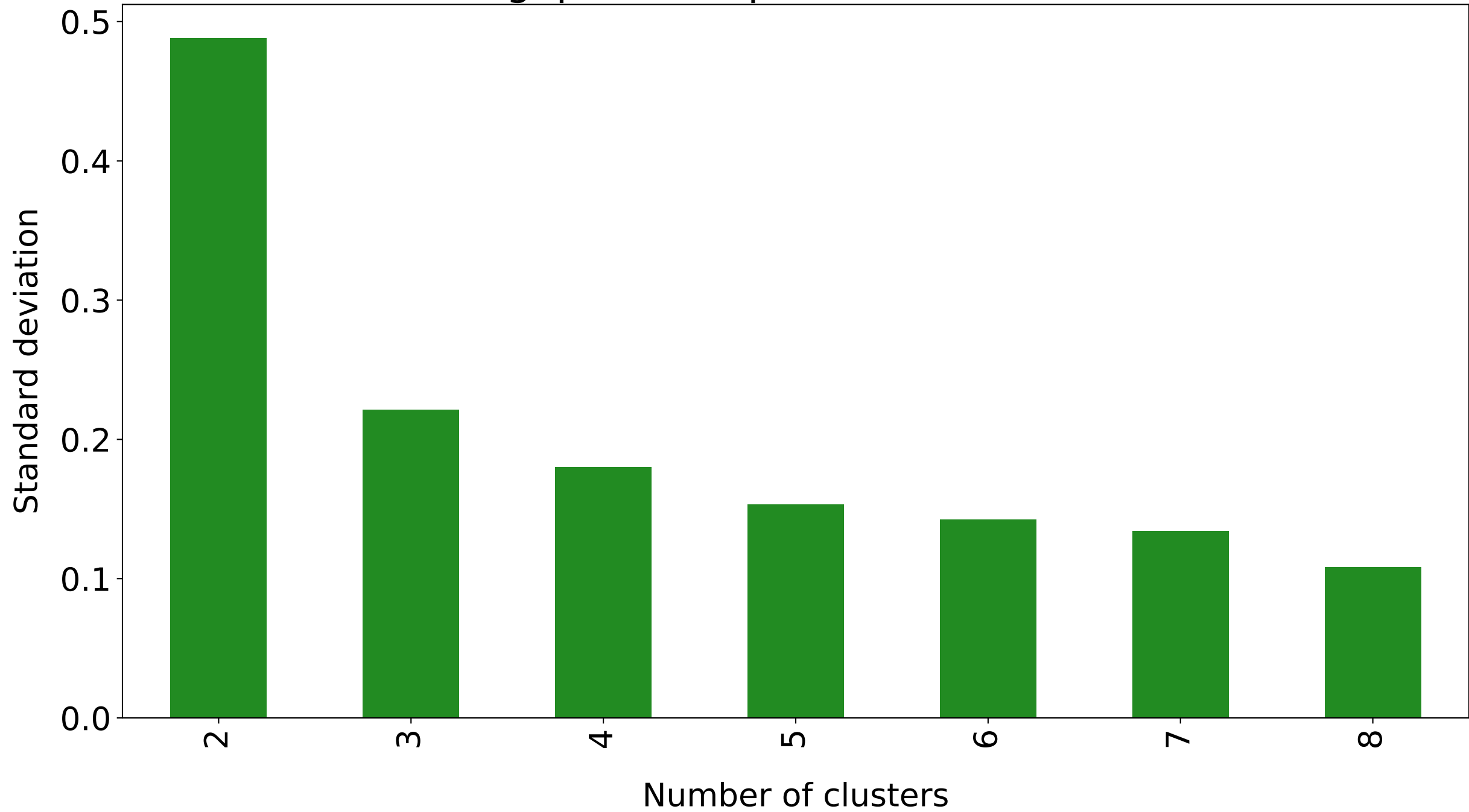


Cophenetic Correlation Coefficient: 0.88963630055

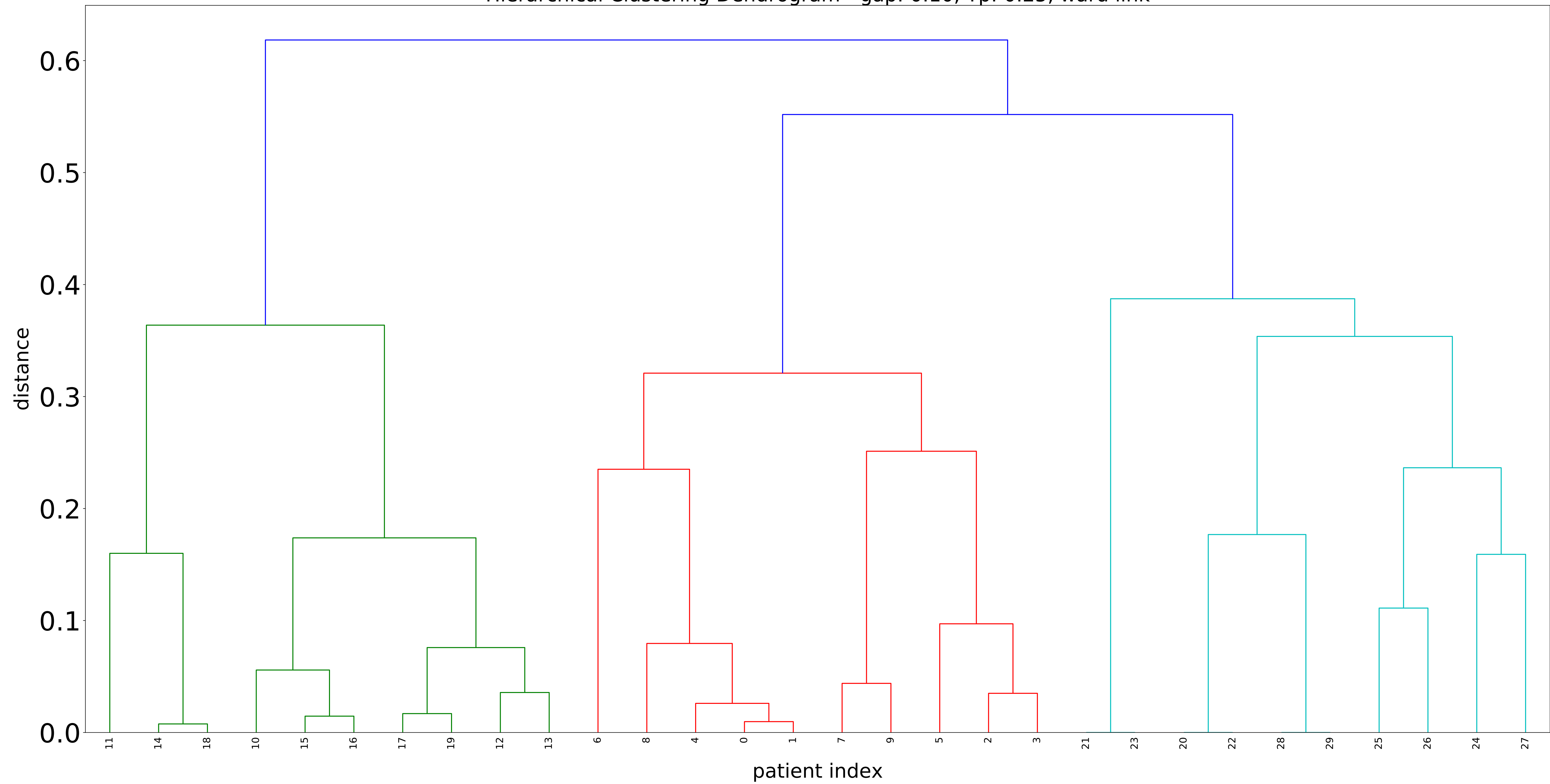
Average values of five clustering indices  
gap: 0.00, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.822	0.643	0.838	0.768	0.645
3.0	0.974	0.94	0.959	0.93	0.942
4.0	0.948	0.866	0.903	0.833	0.825
5.0	0.93	0.792	0.839	0.733	0.744
6.0	0.942	0.803	0.842	0.737	0.75
7.0	0.964	0.845	0.867	0.781	0.866
8.0	0.963	0.824	0.847	0.743	0.833

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.00, Tp: 0.25, ward link



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



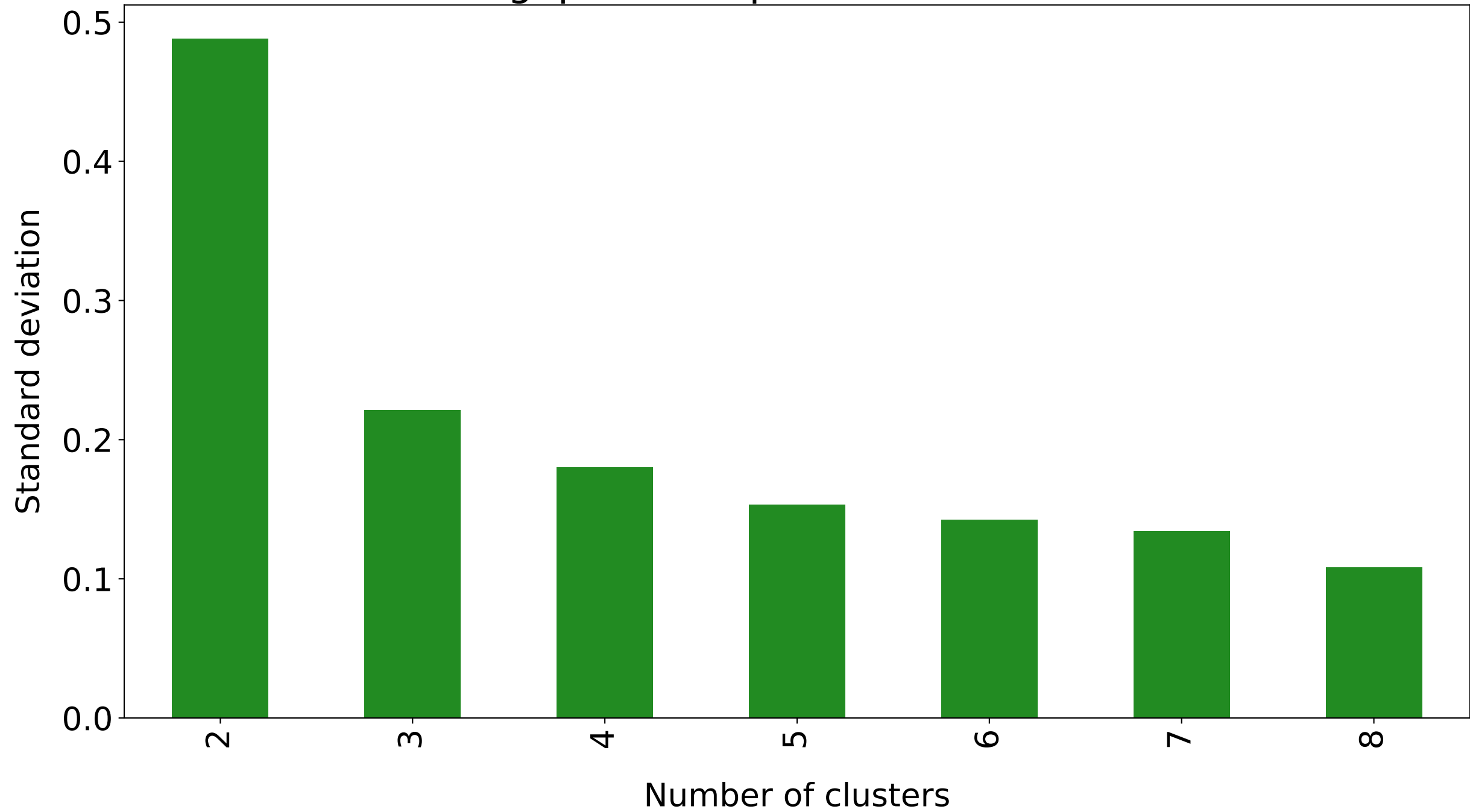
Cophenetic Correlation Coefficient: 0.88963630055



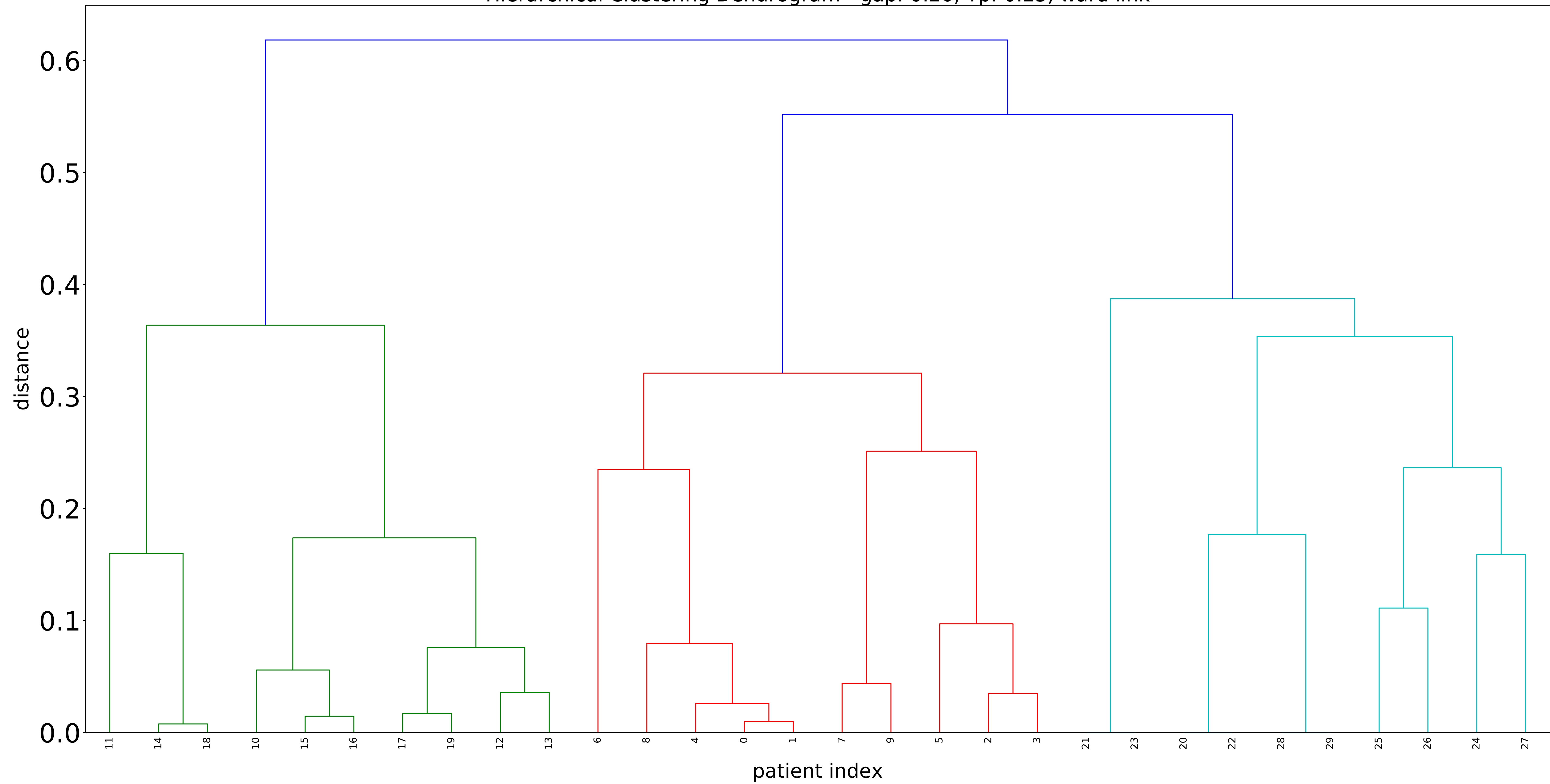
Average values of five clustering indices  
gap: 0.10, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.794	0.587	0.81	0.728	0.59
3.0	0.974	0.94	0.959	0.929	0.944
4.0	0.953	0.879	0.912	0.847	0.843
5.0	0.936	0.81	0.853	0.755	0.766
6.0	0.941	0.8	0.84	0.734	0.747
7.0	0.964	0.85	0.871	0.787	0.872
8.0	0.967	0.843	0.863	0.766	0.853

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.10, Tp: 0.25, ward link



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

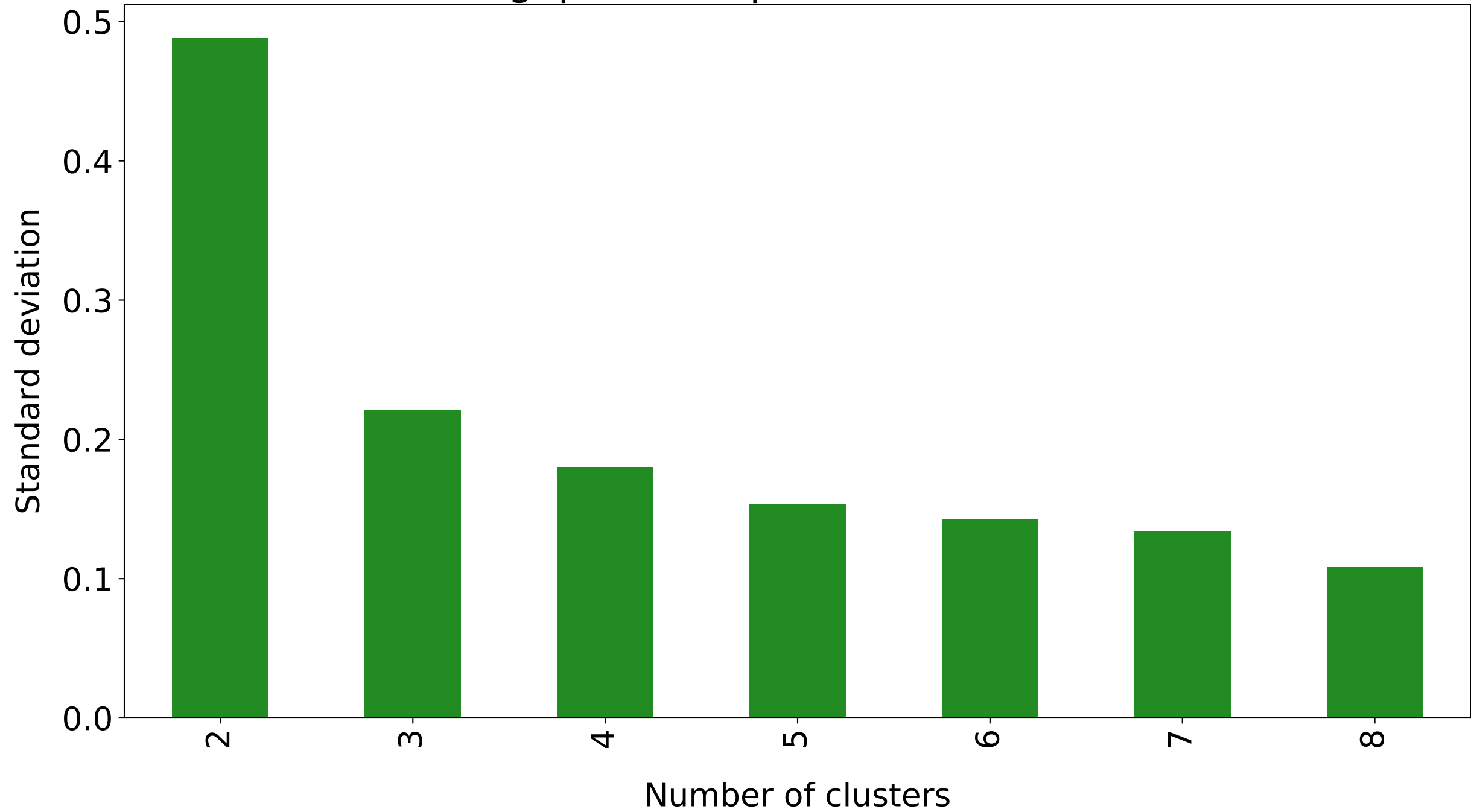


Cophenetic Correlation Coefficient: 0.88963630055

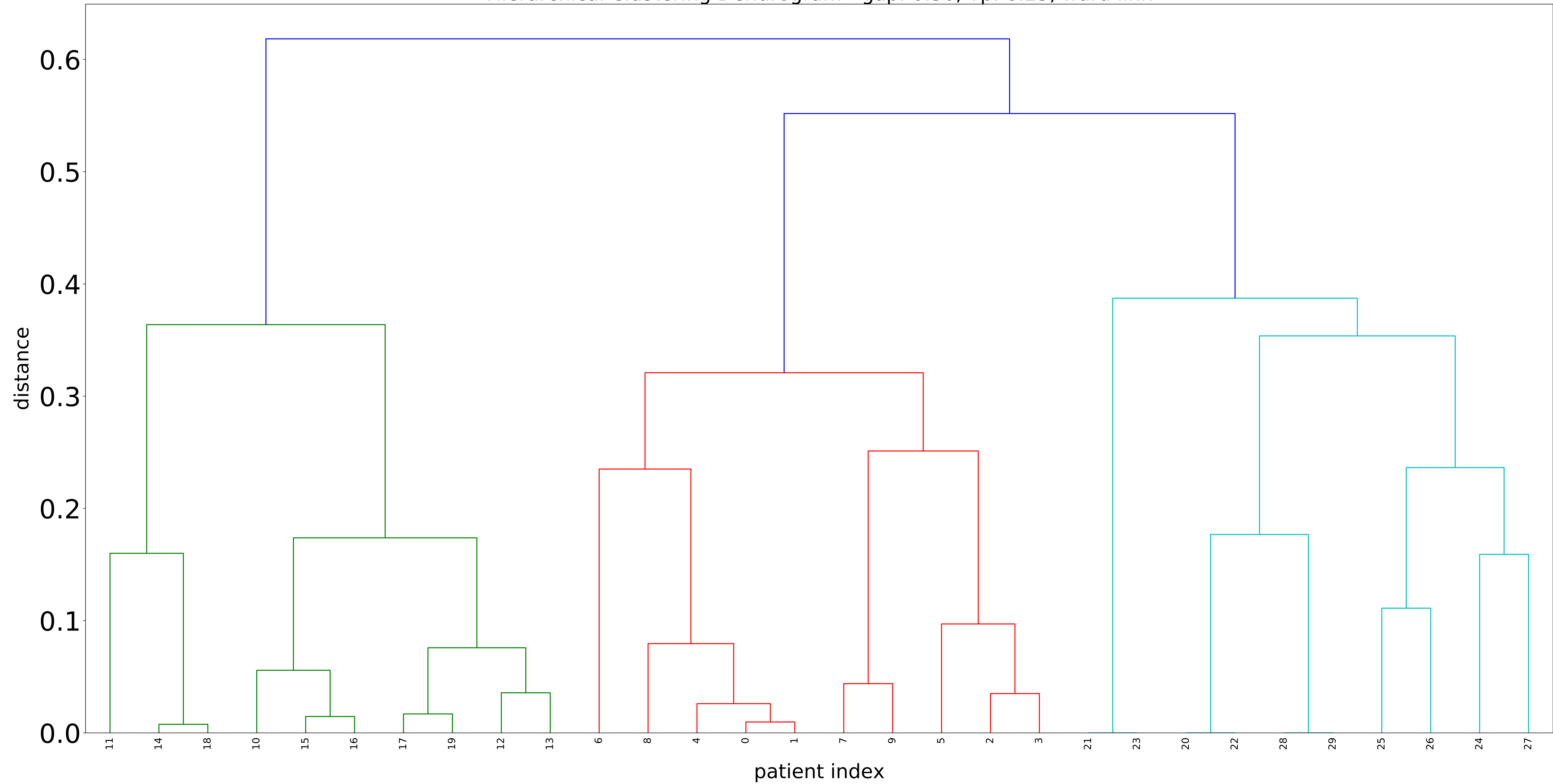
Average values of five clustering indices  
gap: 0.20, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.808	0.613	0.823	0.748	0.616
3.0	0.973	0.936	0.956	0.926	0.94
4.0	0.957	0.888	0.919	0.859	0.853
5.0	0.937	0.814	0.856	0.759	0.77
6.0	0.946	0.817	0.853	0.756	0.767
7.0	0.96	0.83	0.854	0.76	0.848
8.0	0.967	0.841	0.861	0.765	0.853

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.20, Tp: 0.25, ward link



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

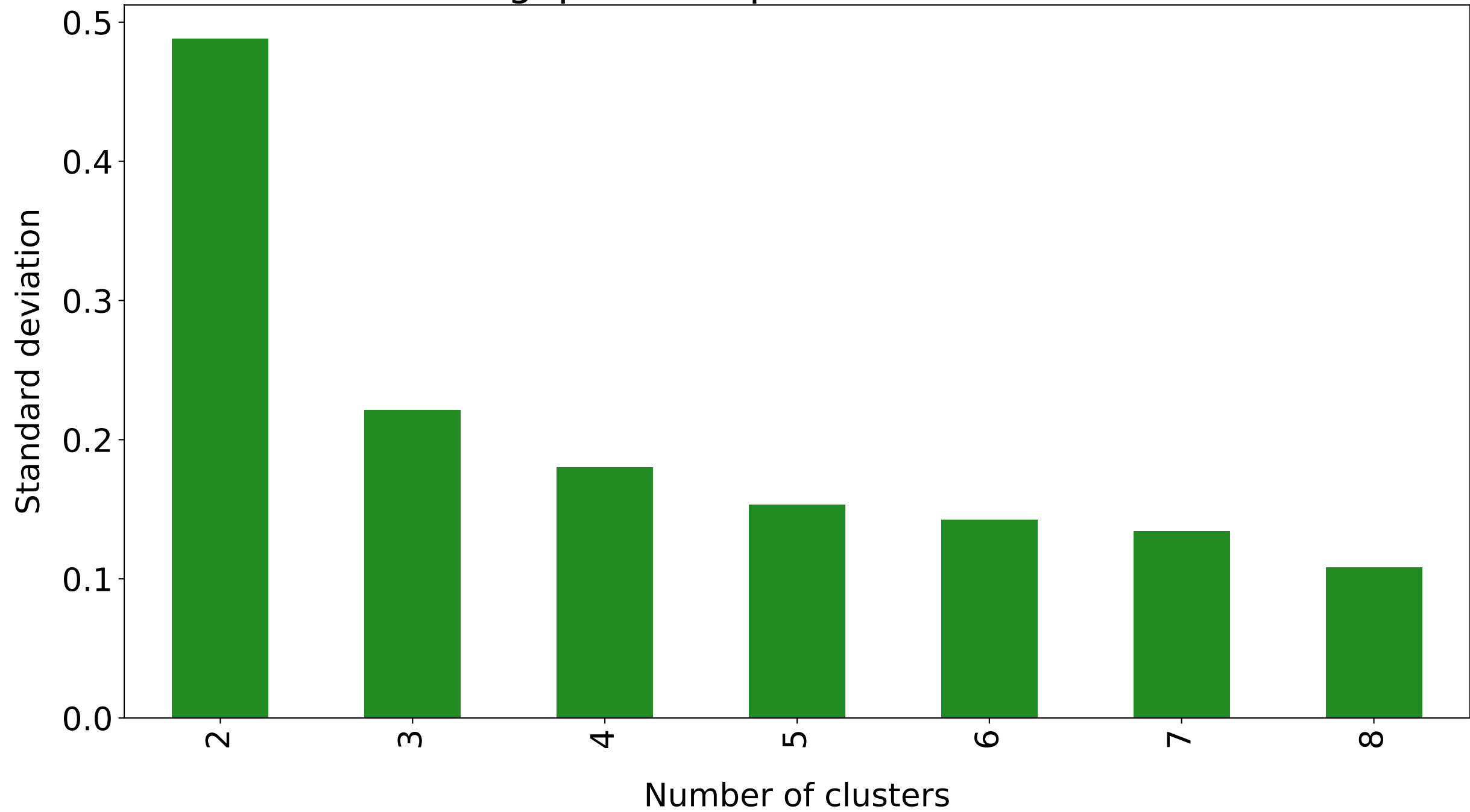


Cophenetic Correlation Coefficient: 0.88963630055

Average values of five clustering indices  
gap: 0.30, Tp: 0.25, ward link

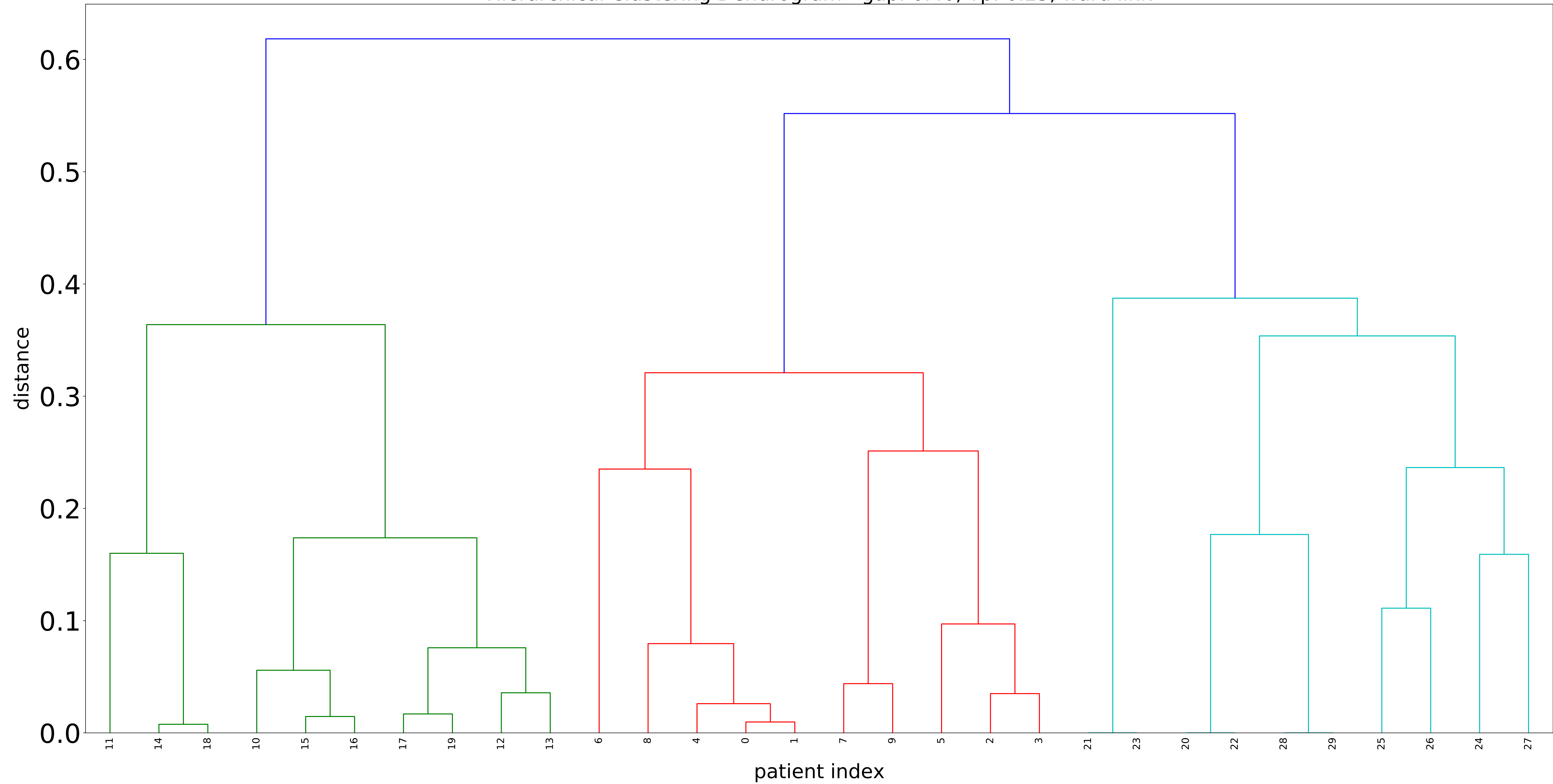
k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.803	0.604	0.818	0.737	0.609
3.0	0.971	0.934	0.955	0.923	0.938
4.0	0.951	0.872	0.907	0.839	0.833
5.0	0.933	0.803	0.848	0.747	0.761
6.0	0.942	0.803	0.842	0.734	0.748
7.0	0.963	0.843	0.866	0.775	0.867
8.0	0.965	0.833	0.854	0.753	0.843

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.30, Tp: 0.25, ward link





Hierarchical Clustering Dendrogram - gap: 0.40, Tp: 0.25, ward link

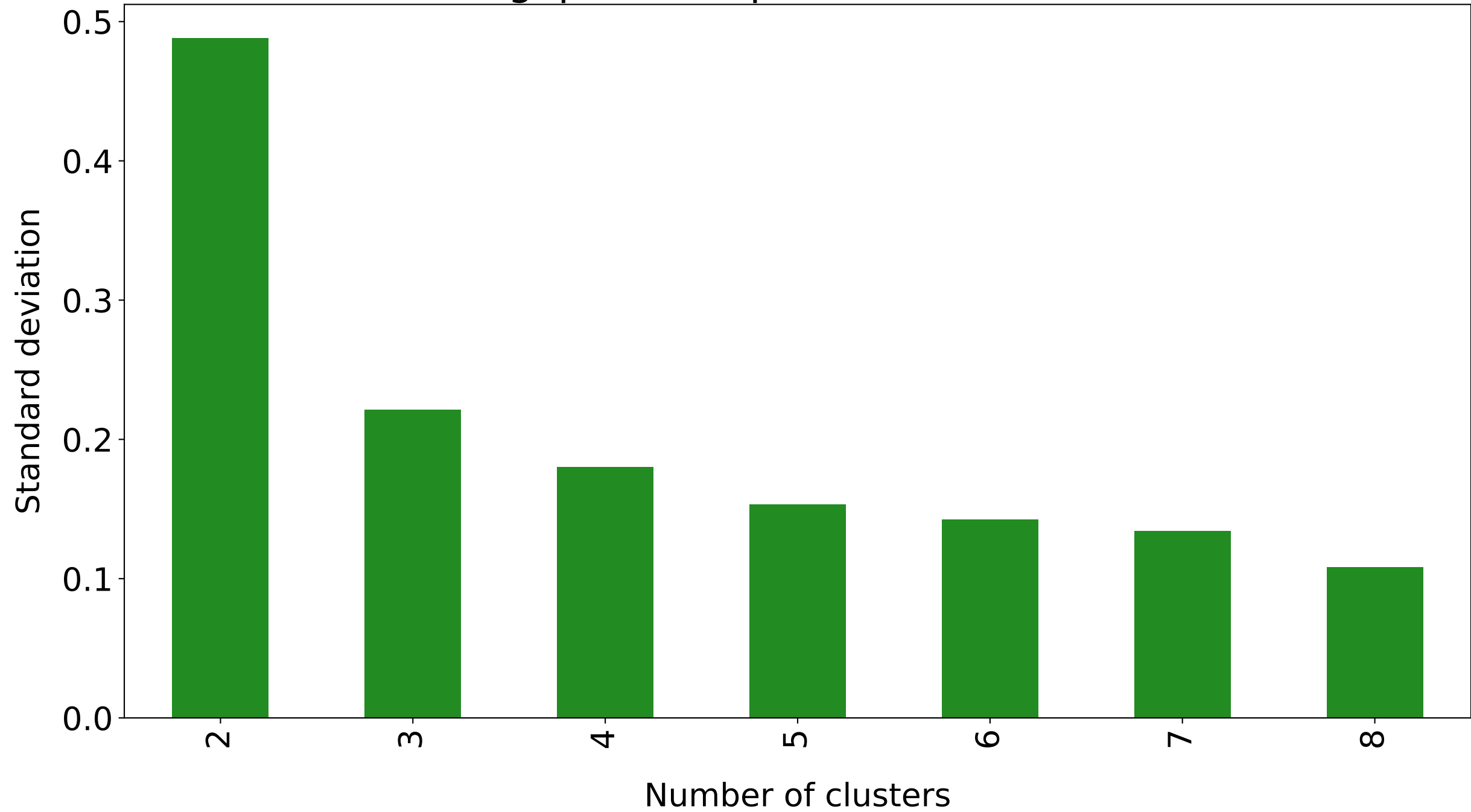


Cophenetic Correlation Coefficient: 0.88963630055

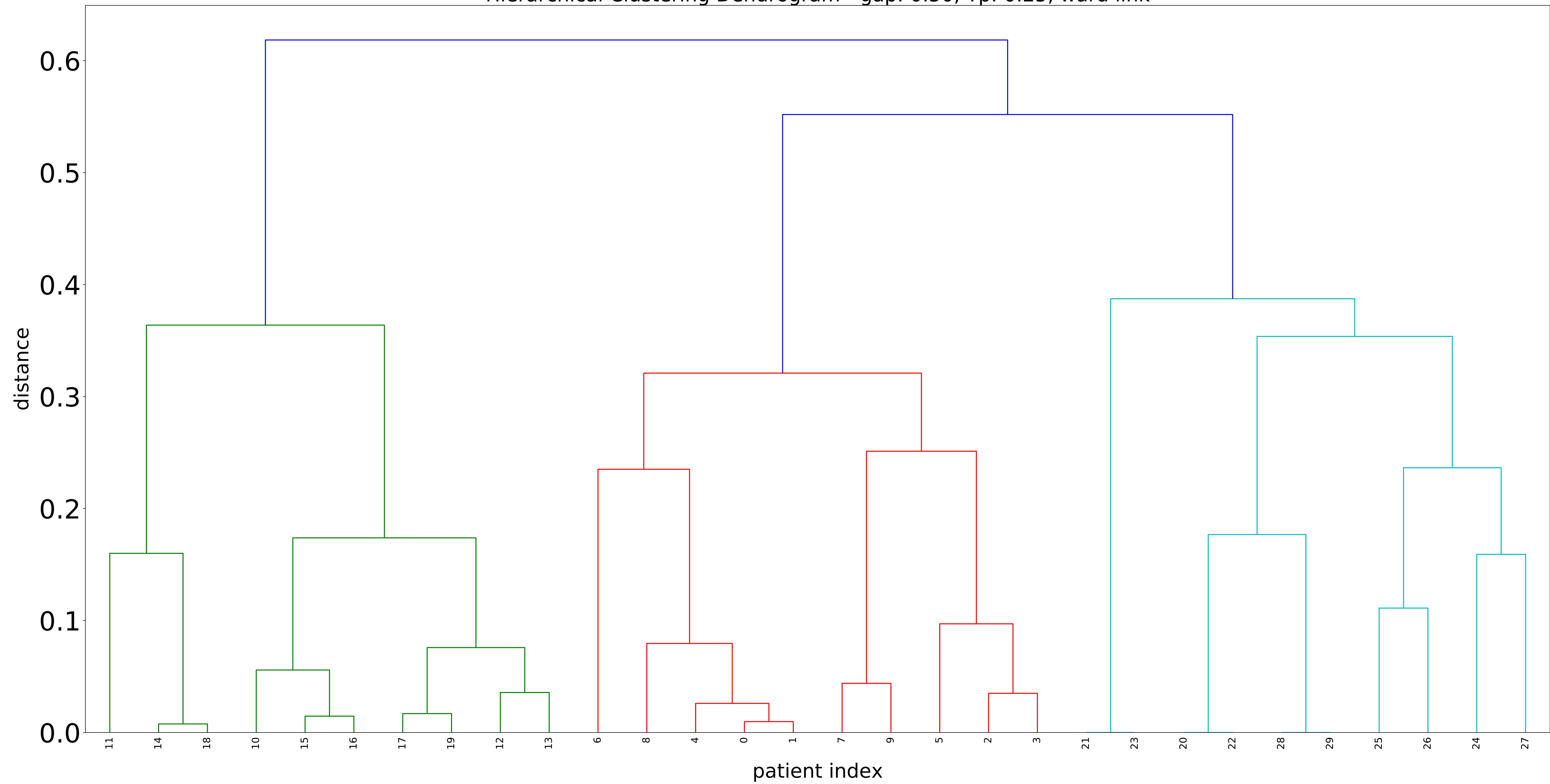
Average values of five clustering indices  
gap: 0.40, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.813	0.624	0.828	0.752	0.628
3.0	0.974	0.941	0.959	0.93	0.945
4.0	0.948	0.866	0.902	0.83	0.825
5.0	0.935	0.808	0.851	0.751	0.762
6.0	0.943	0.805	0.843	0.737	0.749
7.0	0.961	0.835	0.859	0.766	0.861
8.0	0.964	0.831	0.853	0.751	0.845

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.40, Tp: 0.25, ward link



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

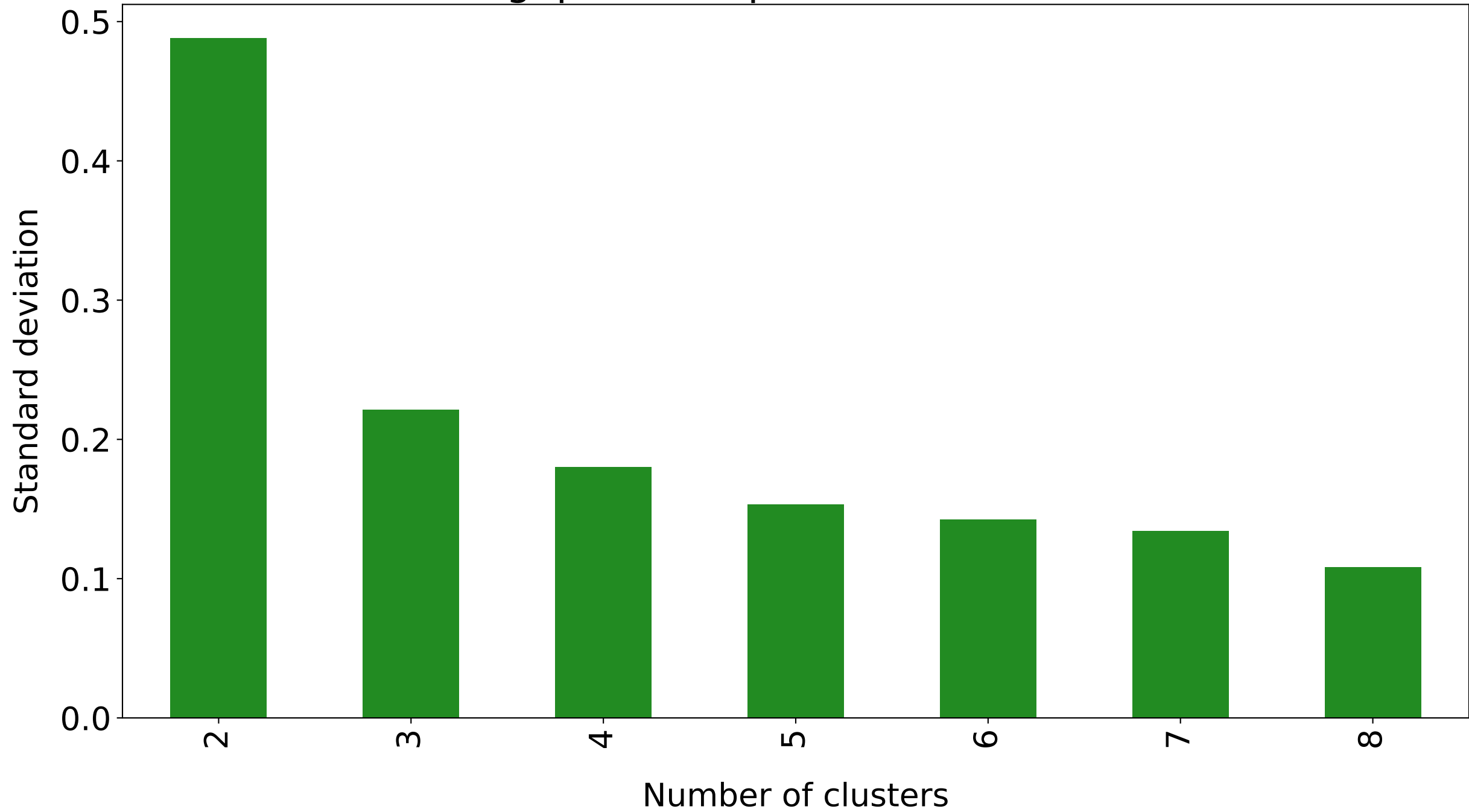


Cophenetic Correlation Coefficient: 0.88963630055

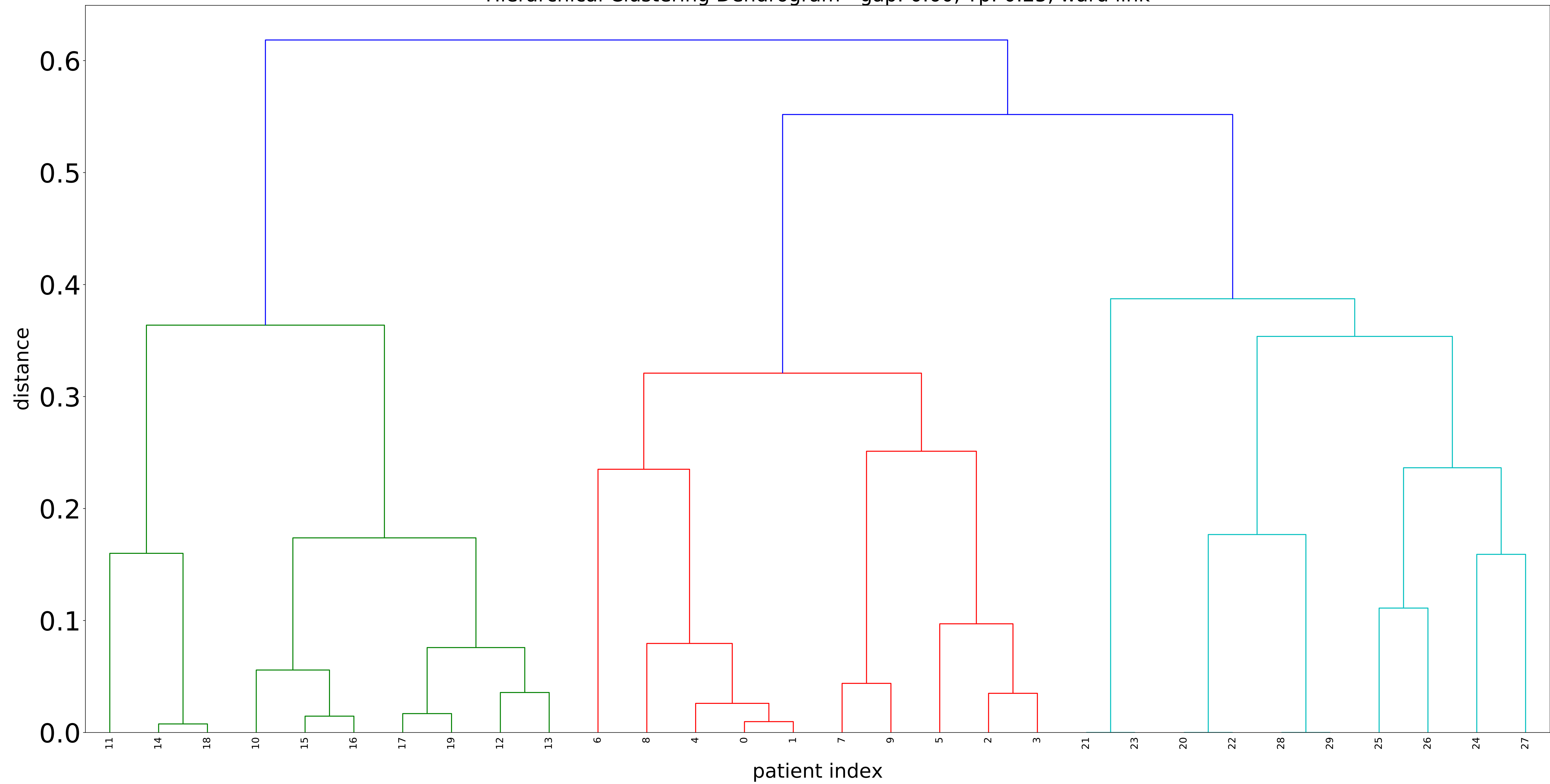
Average values of five clustering indices  
gap: 0.50, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.788	0.574	0.805	0.722	0.577
3.0	0.973	0.937	0.957	0.927	0.94
4.0	0.953	0.88	0.913	0.85	0.844
5.0	0.933	0.803	0.847	0.744	0.759
6.0	0.941	0.799	0.838	0.732	0.745
7.0	0.964	0.844	0.866	0.778	0.861
8.0	0.966	0.833	0.854	0.754	0.841

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.50, Tp: 0.25, ward link



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



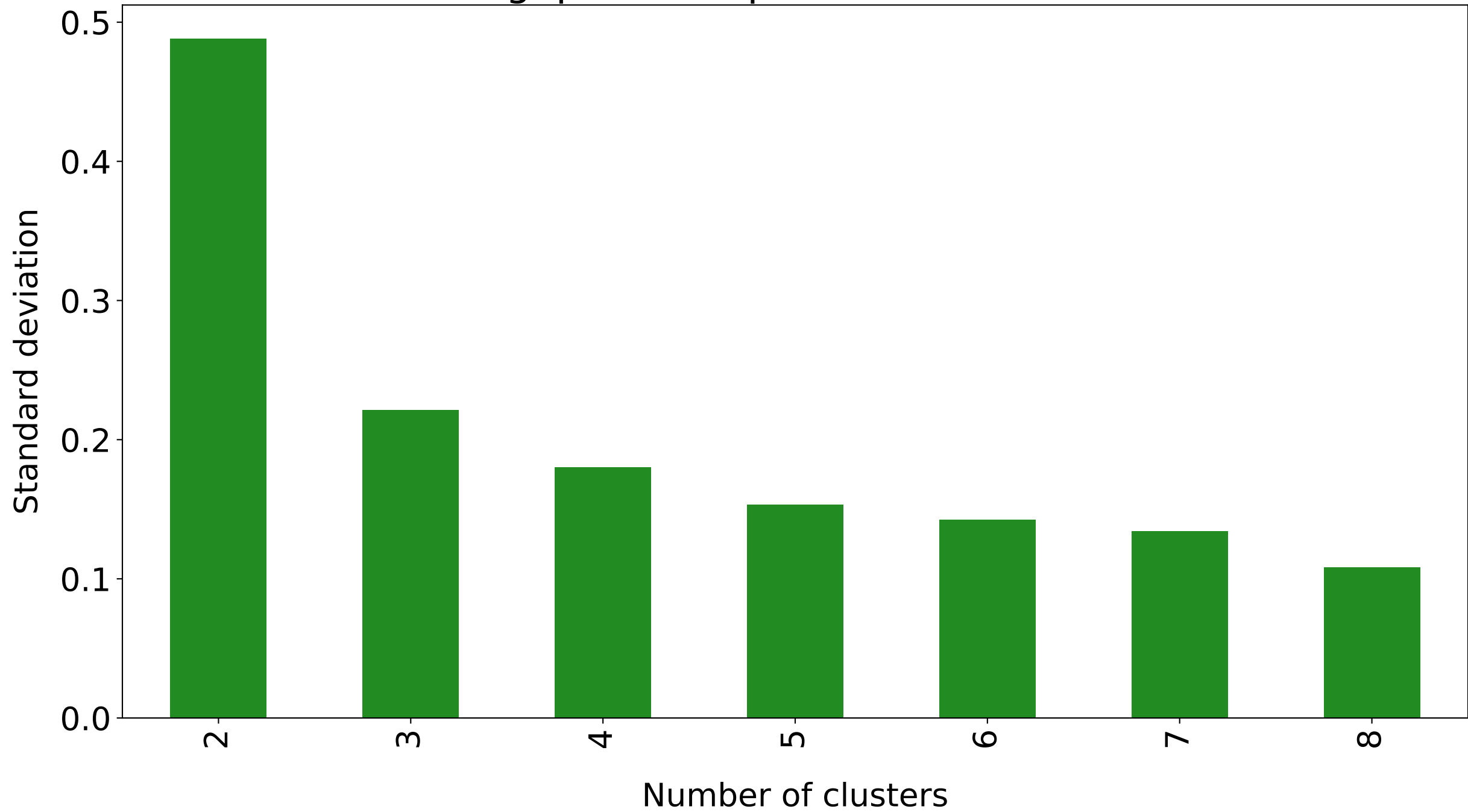
Cophenetic Correlation Coefficient: 0.88963630055

Average values of five clustering indices  
gap: 0.60, Tp: 0.25, ward link

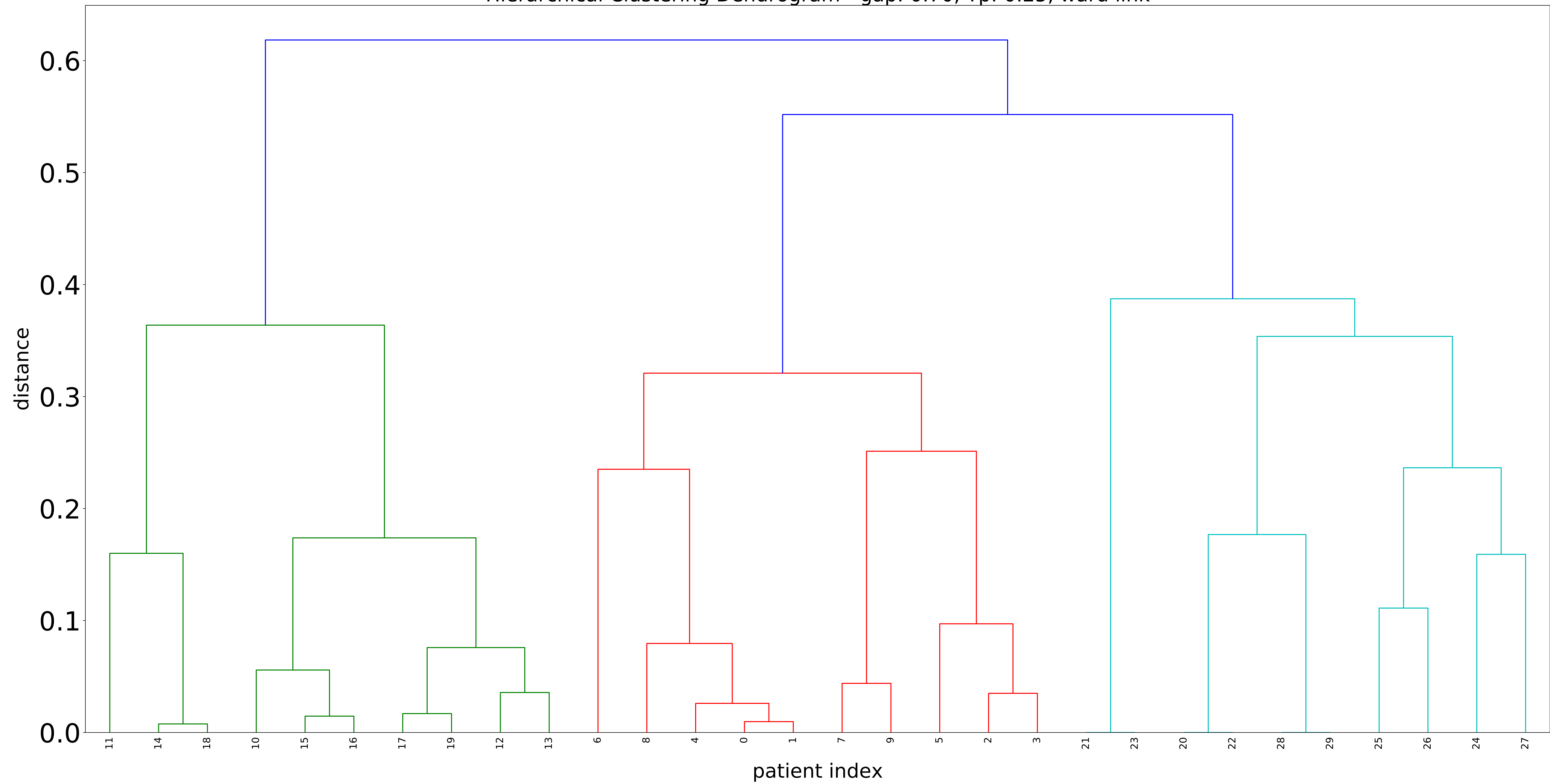
k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.802	0.602	0.819	0.741	0.606
3.0	0.973	0.938	0.958	0.928	0.943
4.0	0.953	0.878	0.911	0.848	0.842
5.0	0.925	0.778	0.829	0.717	0.735
6.0	0.943	0.805	0.843	0.739	0.753
7.0	0.959	0.827	0.851	0.754	0.851
8.0	0.962	0.817	0.84	0.731	0.832



Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.60, Tp: 0.25, ward link



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

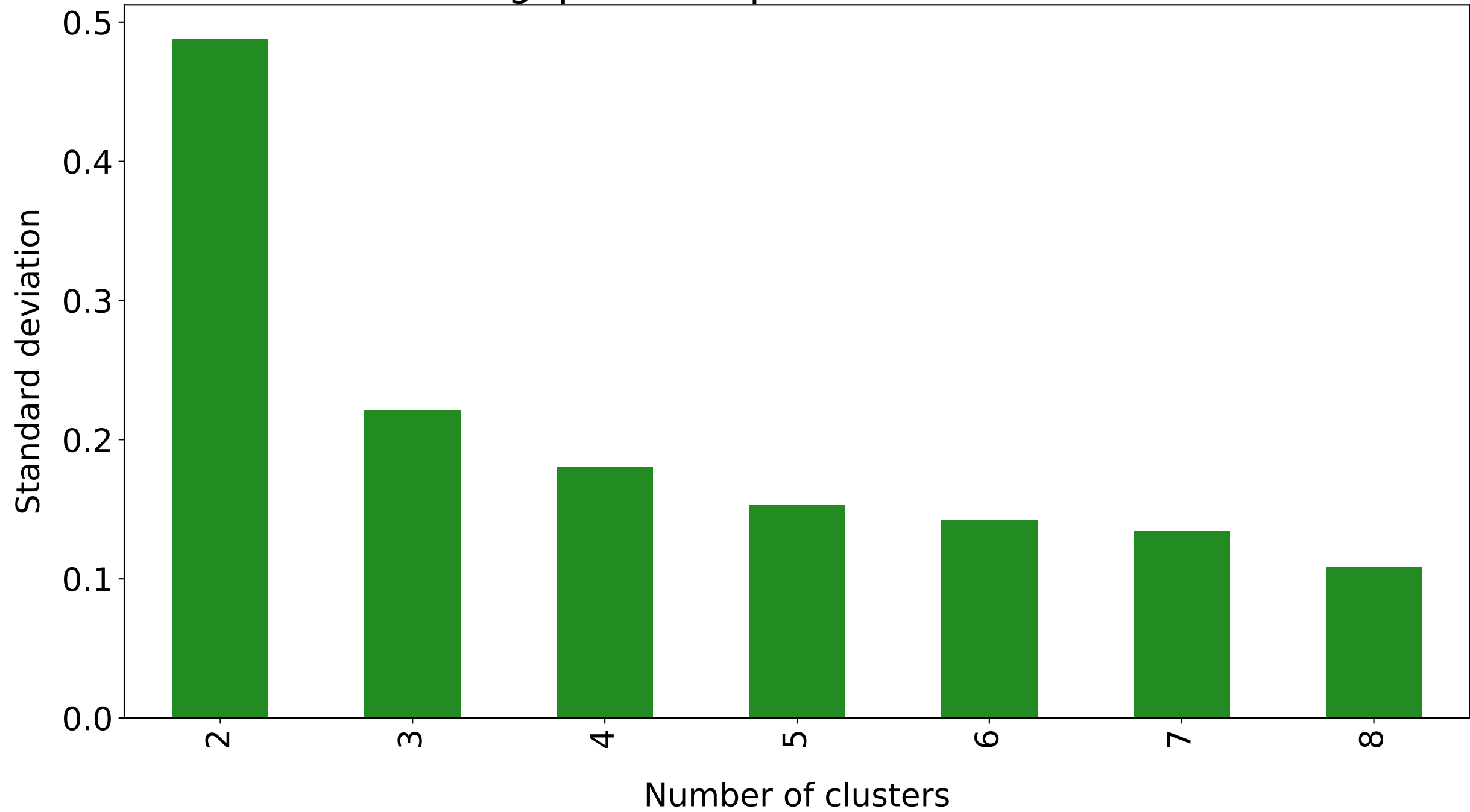


Cophenetic Correlation Coefficient: 0.88963630055

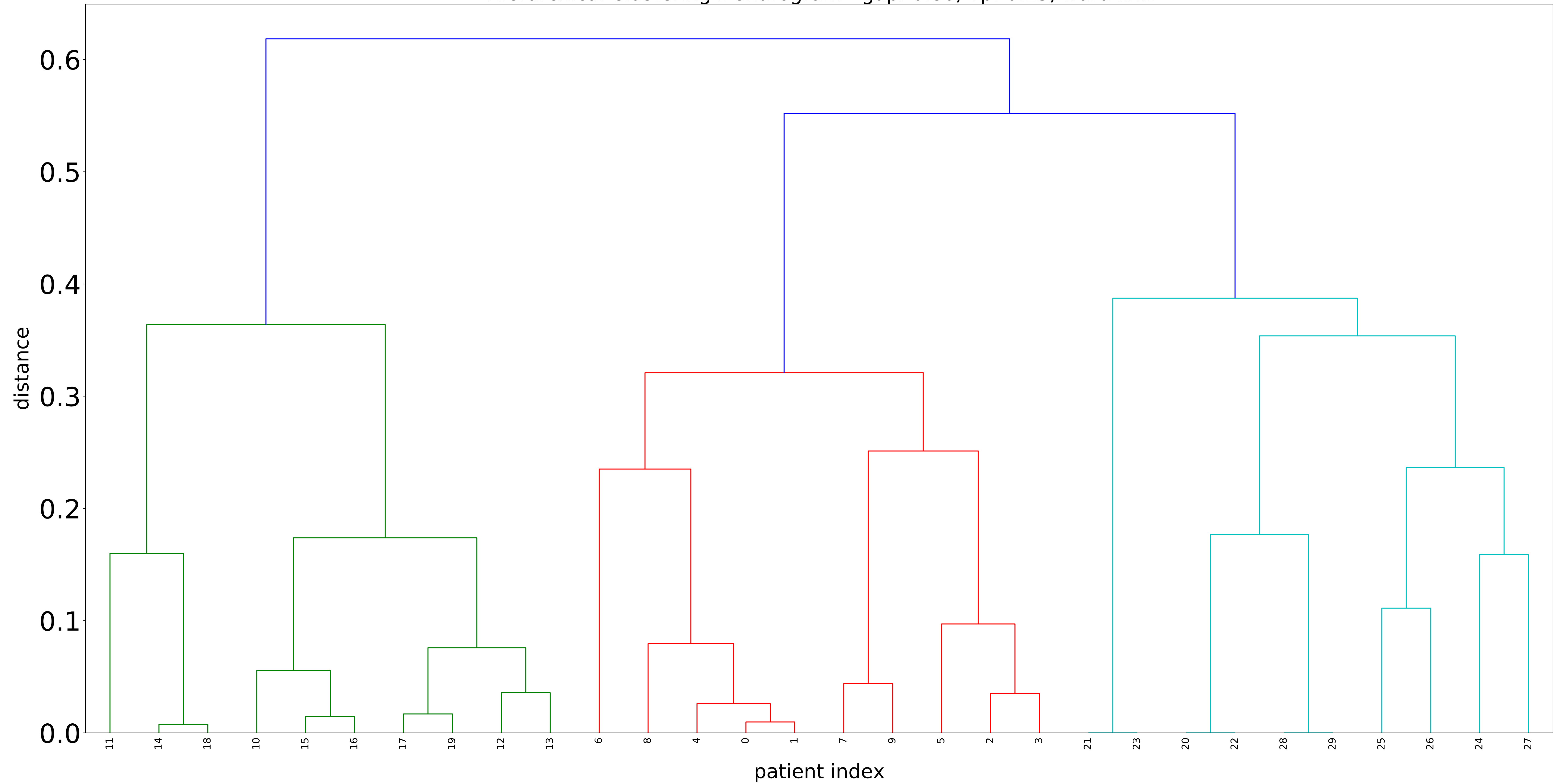
Average values of five clustering indices  
gap: 0.70, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.825	0.649	0.84	0.771	0.652
3.0	0.97	0.93	0.952	0.918	0.935
4.0	0.95	0.871	0.906	0.838	0.832
5.0	0.93	0.793	0.84	0.733	0.746
6.0	0.941	0.798	0.837	0.728	0.742
7.0	0.961	0.836	0.86	0.767	0.858
8.0	0.967	0.841	0.861	0.764	0.855

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.70, Tp: 0.25, ward link



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

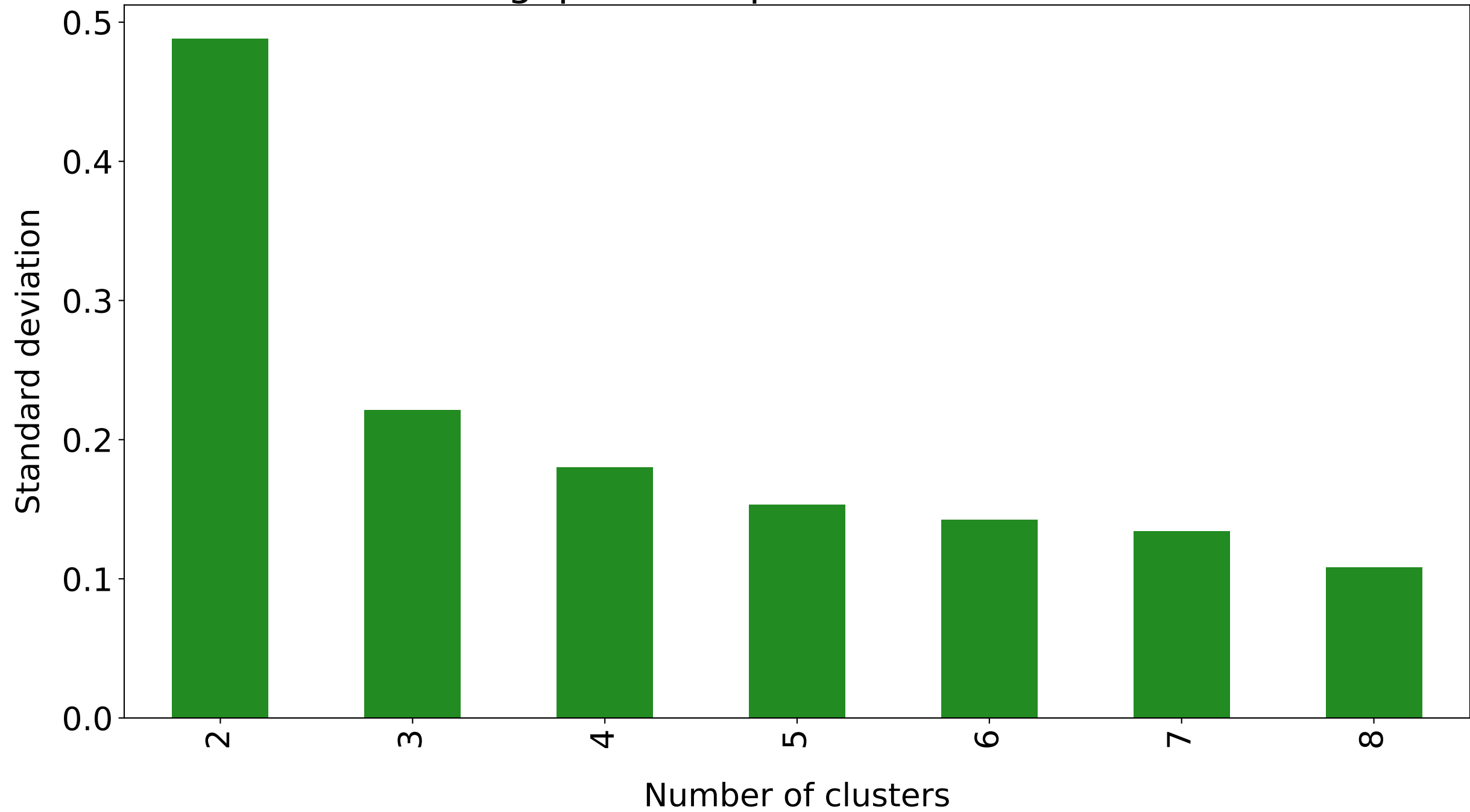


Cophenetic Correlation Coefficient: 0.88963630055

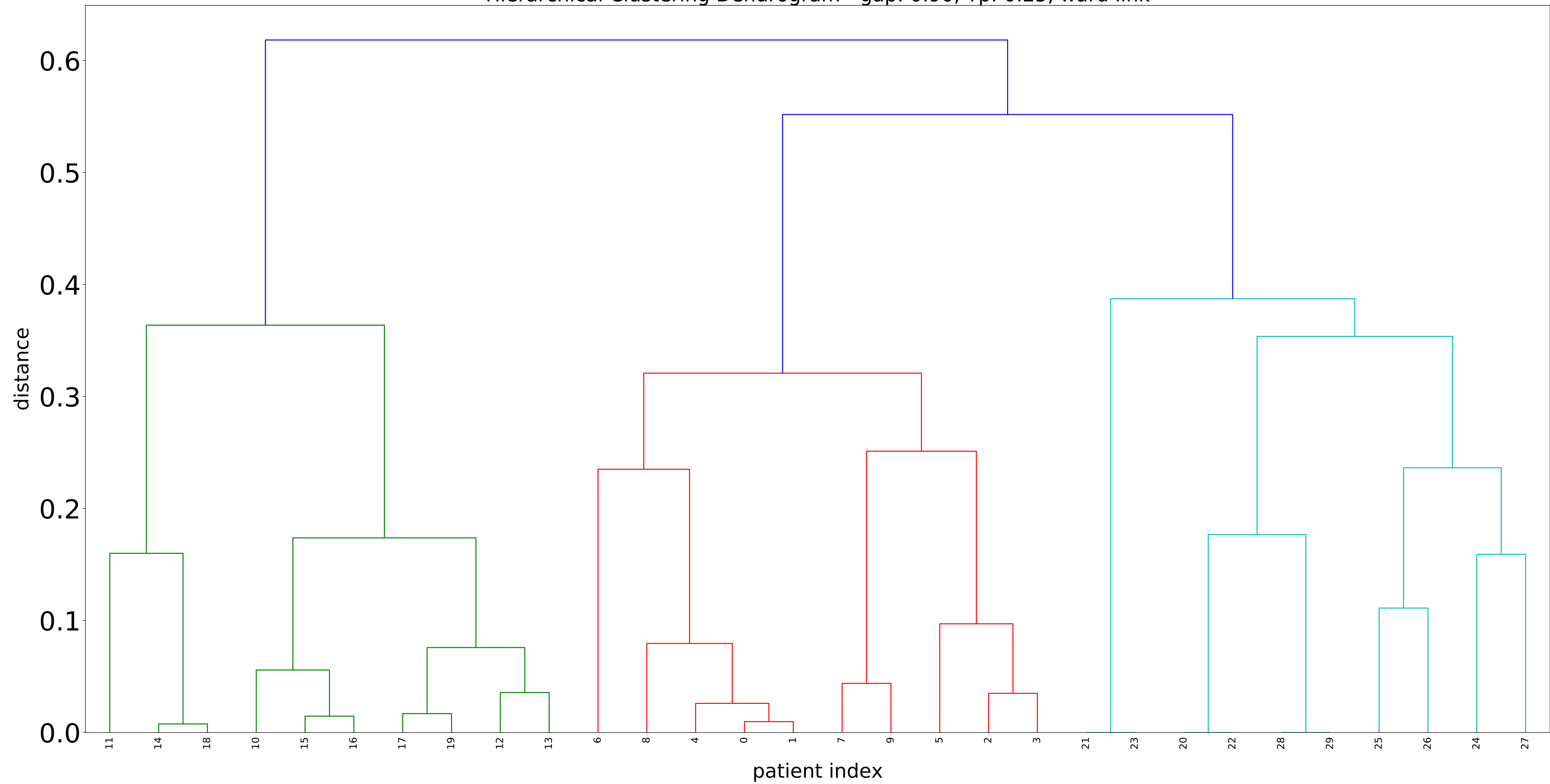
Average values of five clustering indices  
gap: 0.80, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.805	0.609	0.821	0.743	0.612
3.0	0.97	0.931	0.953	0.92	0.936
4.0	0.948	0.865	0.902	0.832	0.826
5.0	0.928	0.787	0.835	0.727	0.742
6.0	0.944	0.811	0.848	0.749	0.762
7.0	0.964	0.846	0.868	0.781	0.871
8.0	0.966	0.837	0.857	0.76	0.85

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.80, Tp: 0.25, ward link



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

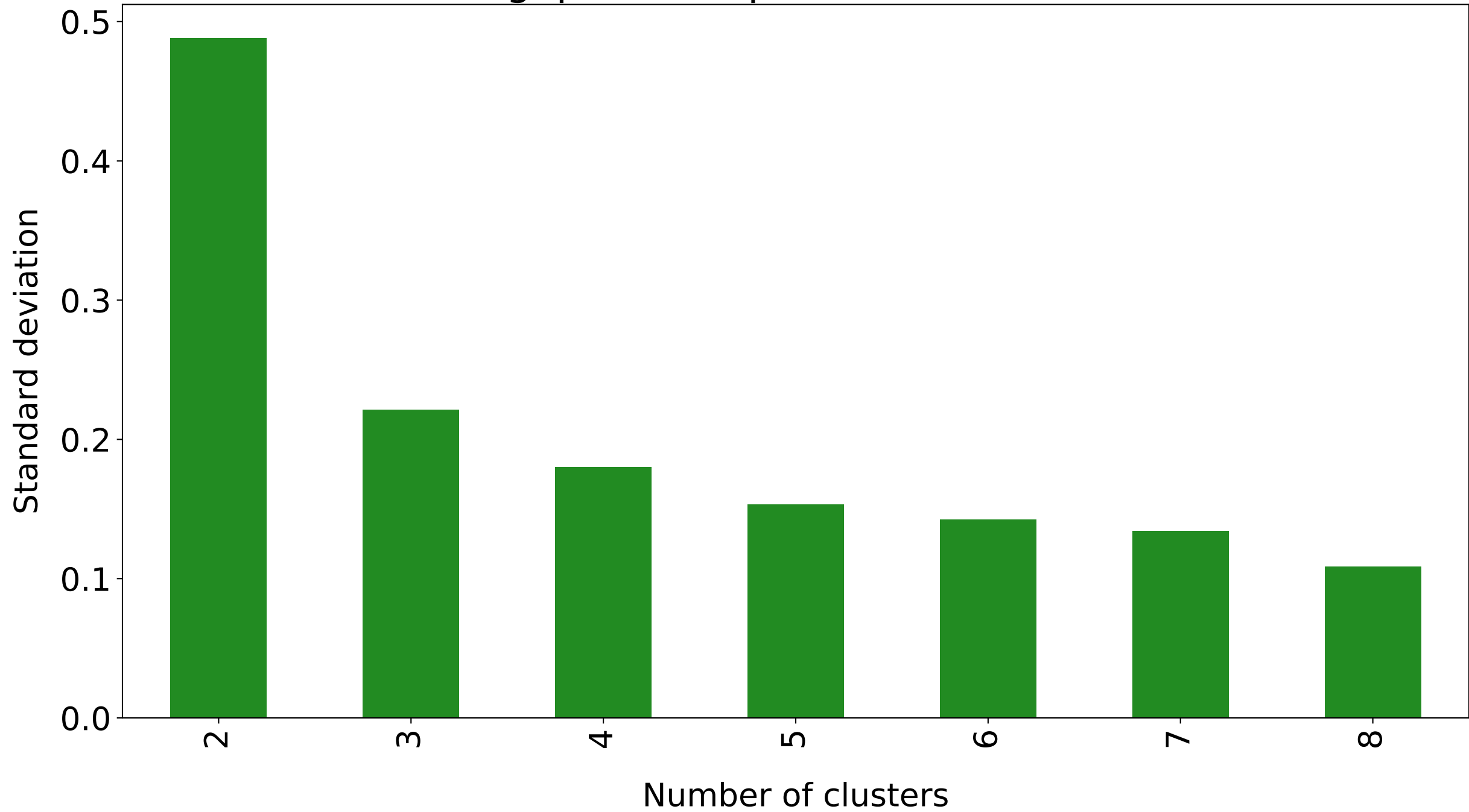




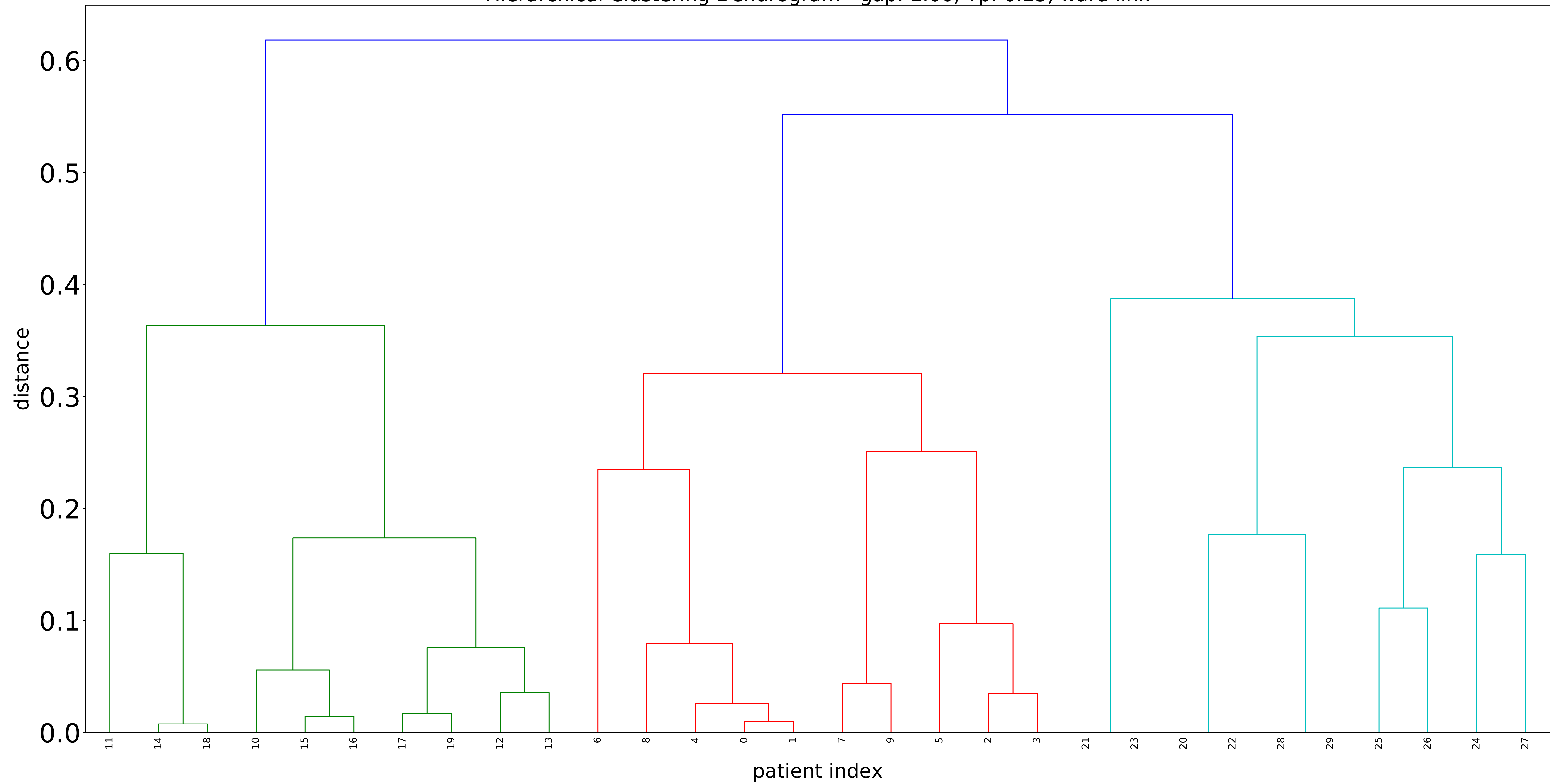
Average values of five clustering indices  
gap: 0.90, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.814	0.626	0.83	0.756	0.63
3.0	0.972	0.936	0.956	0.925	0.939
4.0	0.954	0.882	0.914	0.853	0.845
5.0	0.933	0.801	0.846	0.744	0.76
6.0	0.947	0.817	0.852	0.754	0.775
7.0	0.965	0.85	0.871	0.784	0.872
8.0	0.968	0.846	0.865	0.773	0.853

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.90, Tp: 0.25, ward link



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



Cophenetic Correlation Coefficient: 0.88963630055

Average values of five clustering indices  
gap: 1.00, Tp: 0.25, ward link

k	Rand	Adjusted Rand	Fowlkes and Mallows	Jaccard	Adjusted Wallace
2.0	0.818	0.635	0.833	0.761	0.637
3.0	0.976	0.944	0.962	0.935	0.947
4.0	0.956	0.888	0.918	0.859	0.852
5.0	0.934	0.803	0.847	0.746	0.766
6.0	0.948	0.822	0.857	0.762	0.778
7.0	0.958	0.822	0.847	0.746	0.85
8.0	0.962	0.817	0.84	0.731	0.836

Standard deviation of Adjusted Rand versus number of clusters  
gap: 1.00, Tp: 0.25, ward link

