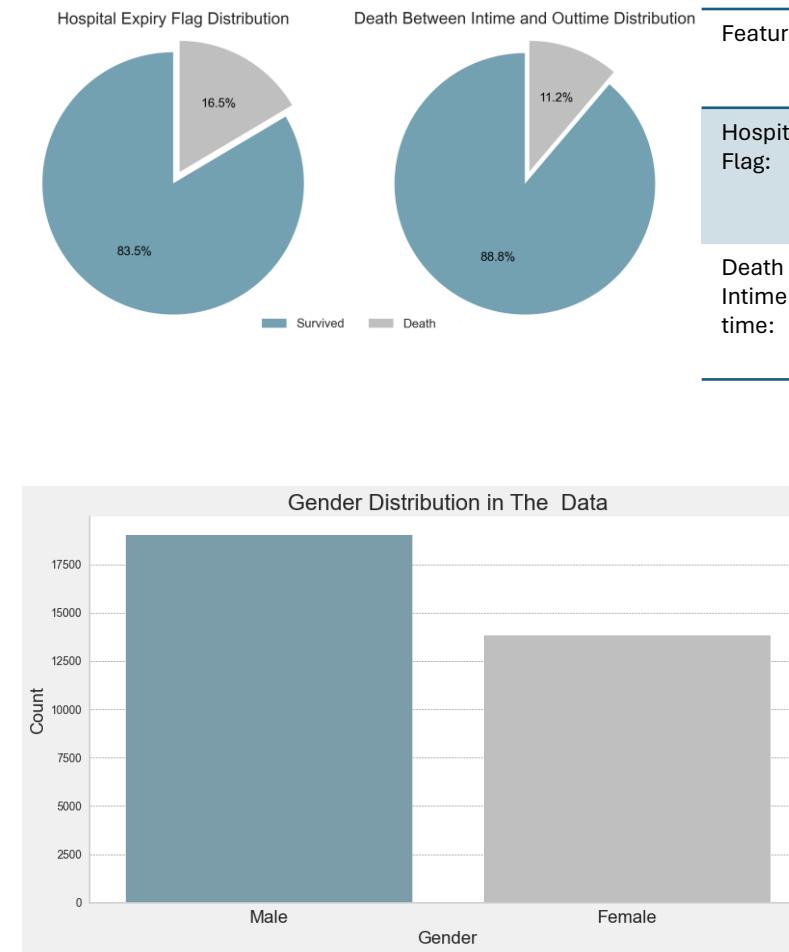
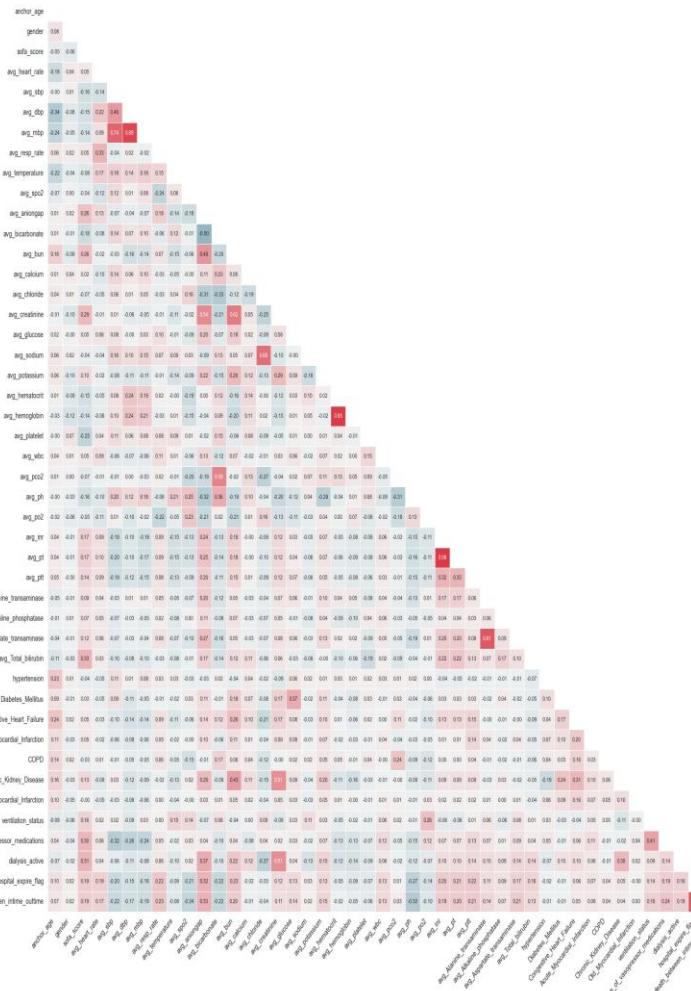
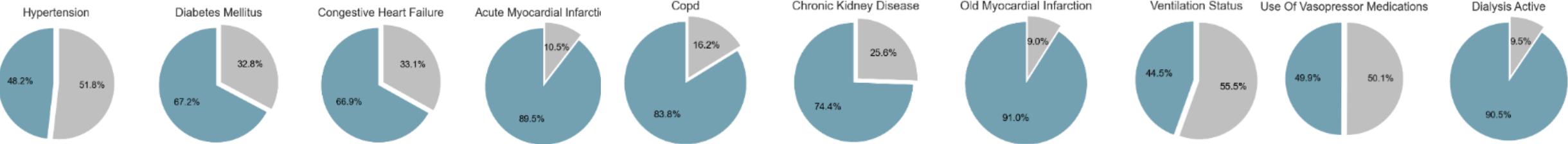
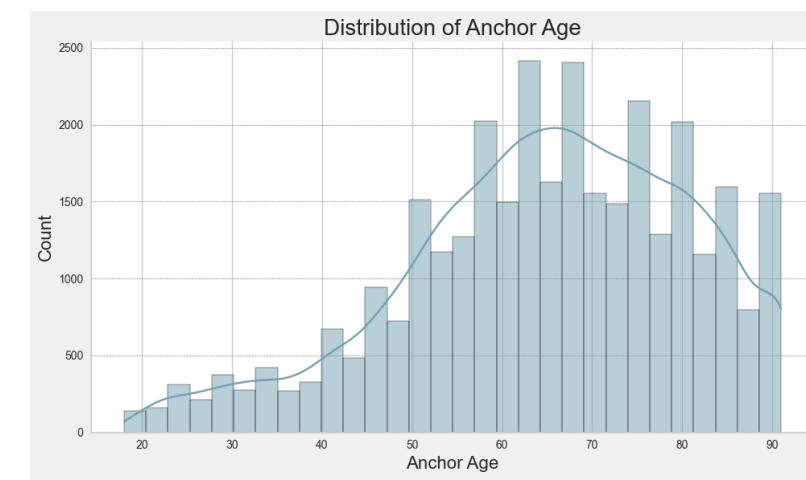


Visual Data Analysis of Hospitalized Patients

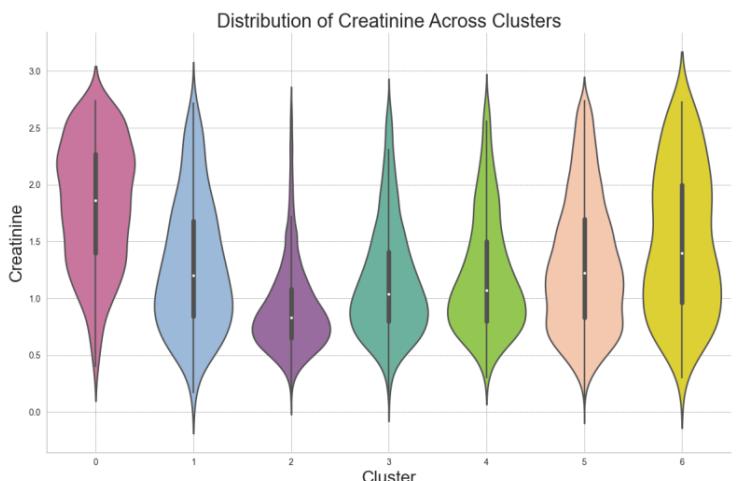
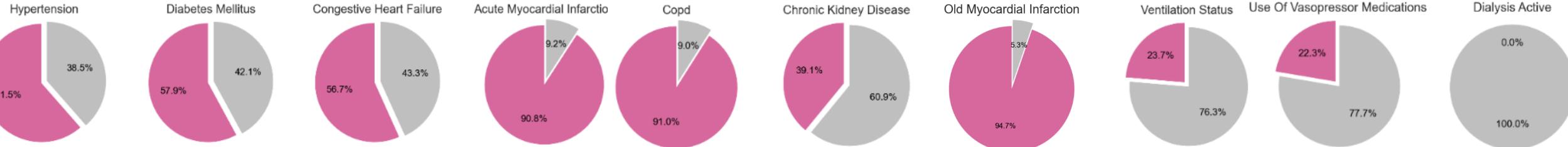


Feature	Total Patients	Deceased:	Survived
Hospital Expire Flag:	32848	5414	27420
Death Between Intime and Out-time:	32848	3685	29149

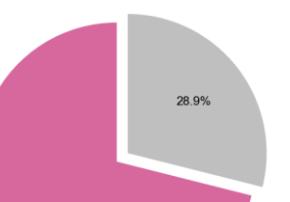


Detailed Insights from Training Data on Cluster 0: Patient Demographics and Health Outcomes

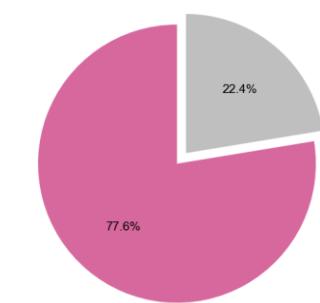
No
Yes



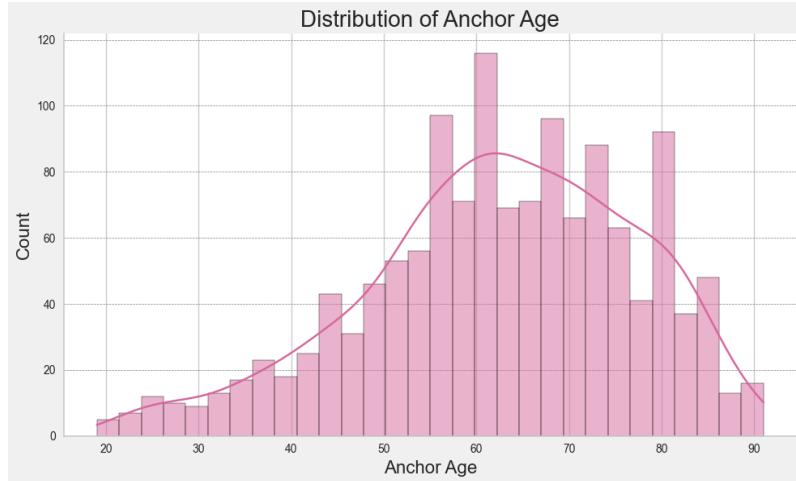
Hospital Expiry Flag Distribution



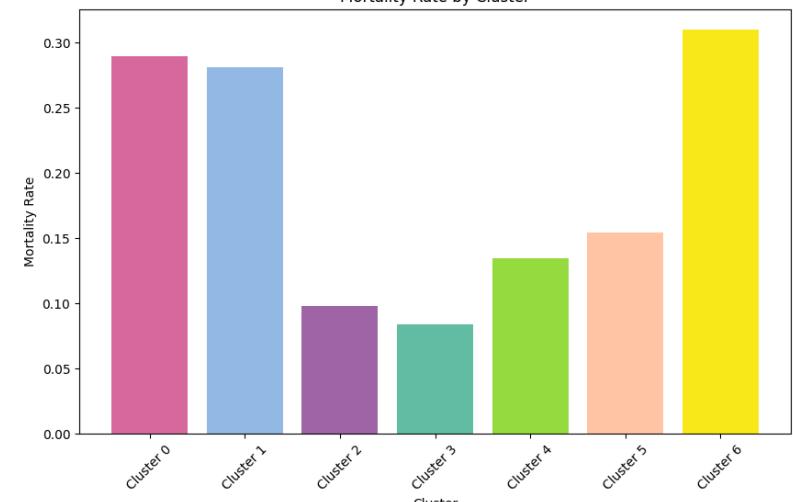
Death Between Intime and Outtime Distribution



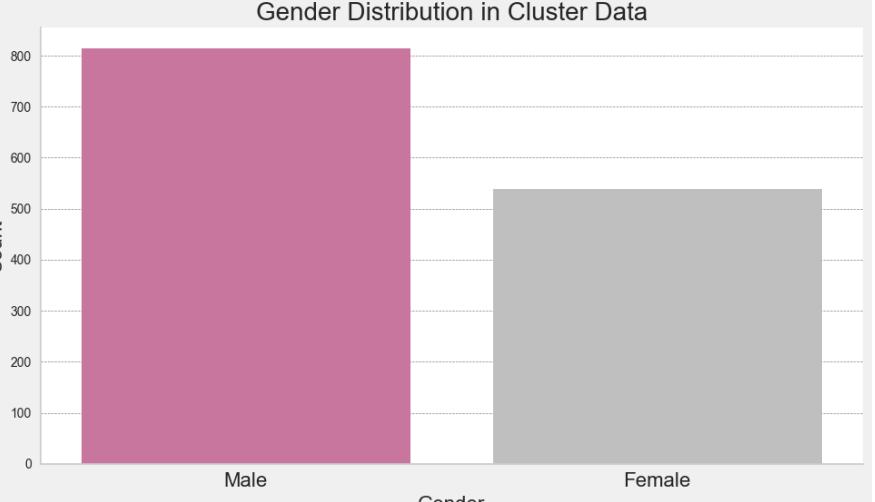
	Survived	Deceased	Total	Mortality Rate
	961	391	1352	0.289201



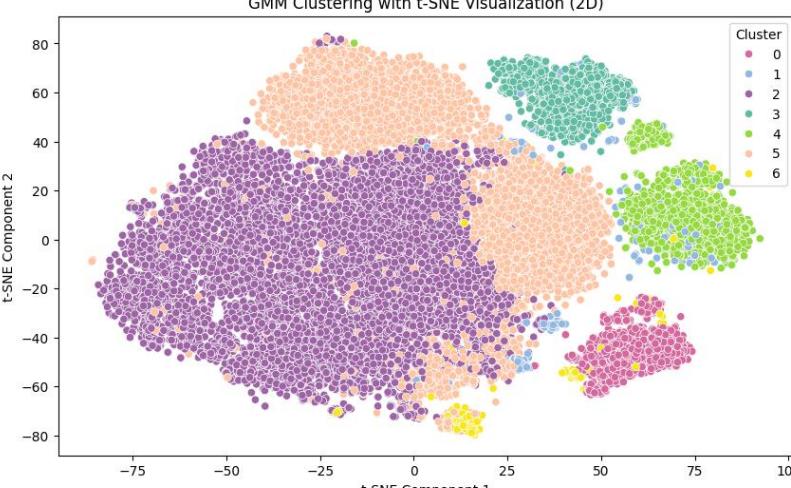
Mortality Rate by Cluster

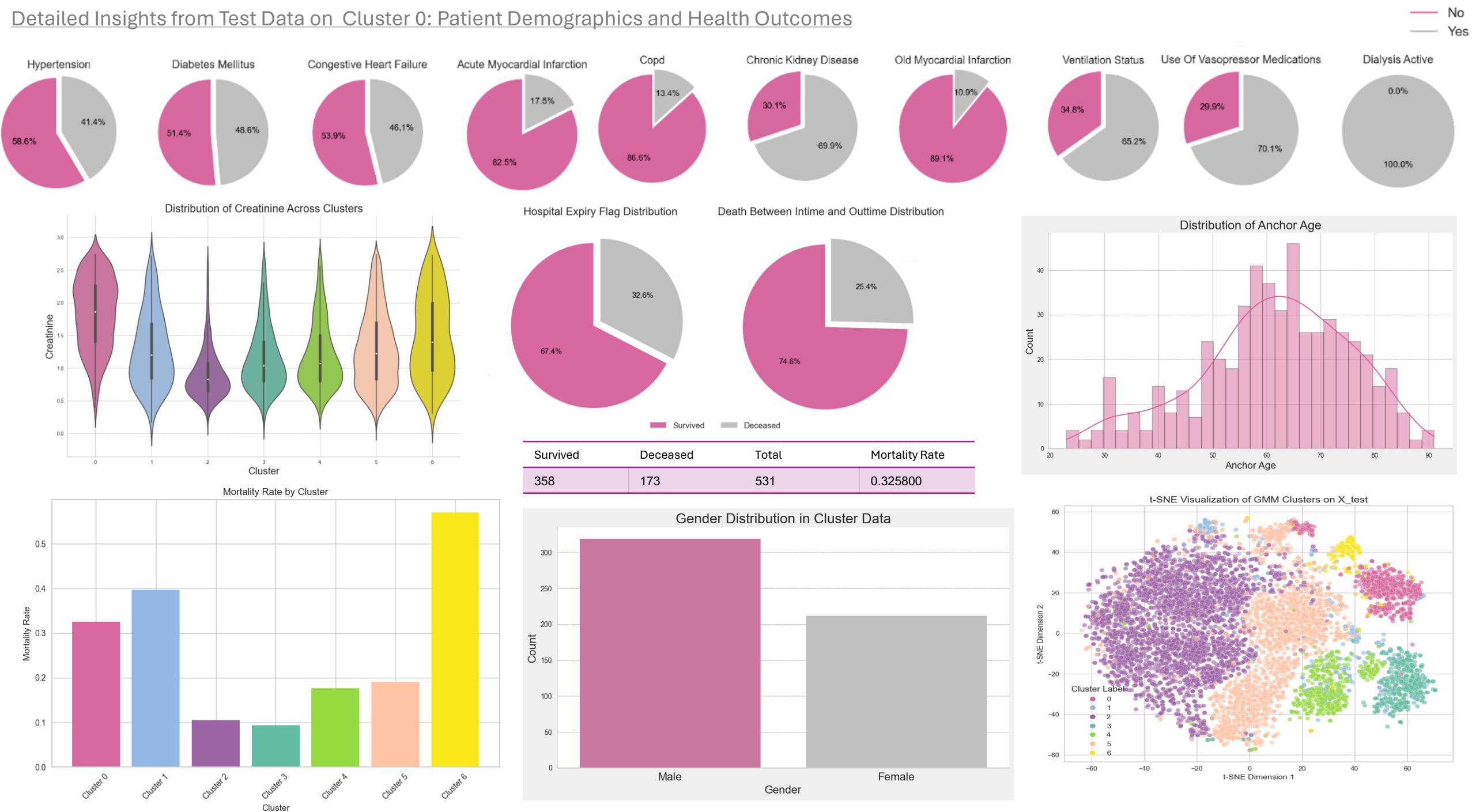


Gender Distribution in Cluster Data



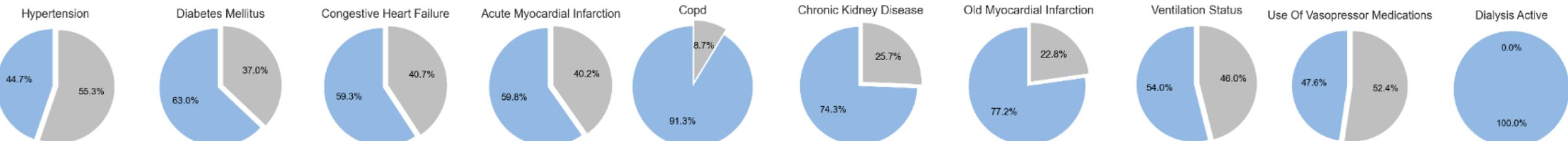
GMM Clustering with t-SNE Visualization (2D)



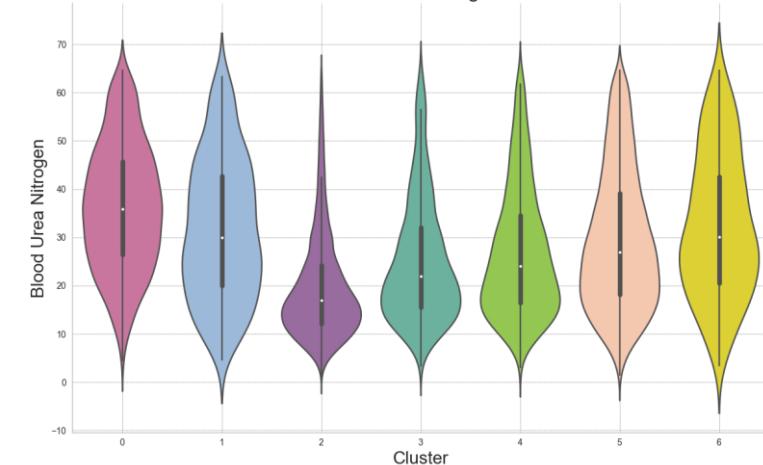


Detailed Insights from Training Data on Cluster 1: Patient Demographics and Health Outcomes

No
Yes



Distribution of Blood Urea Nitrogen Across Clusters



Hospital Expiry Flag Distribution

Survived

Deceased

Total

Mortality Rate

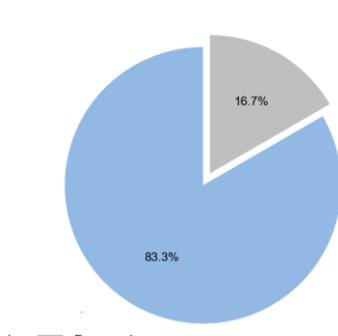
272

106

378

0.280423

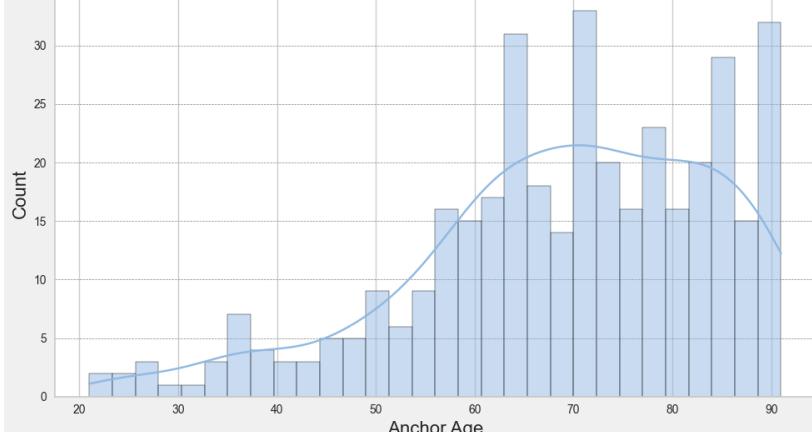
Death Between Intime and Outtime Distribution



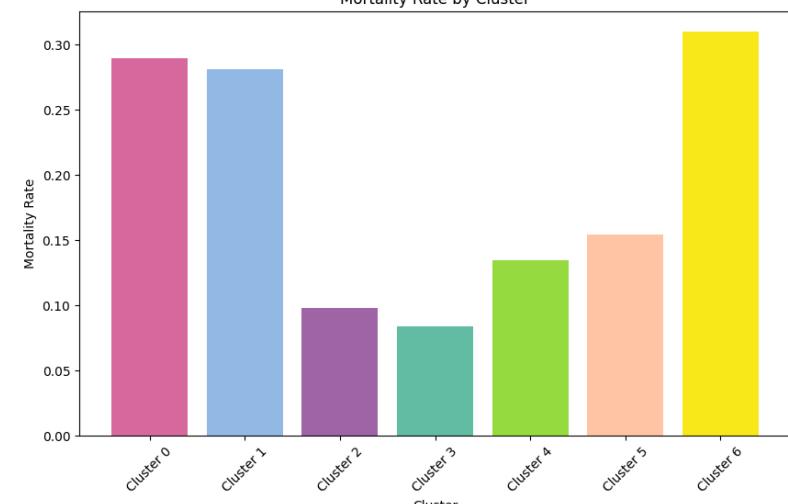
Survived Deceased Total Mortality Rate

272 106 378 0.280423

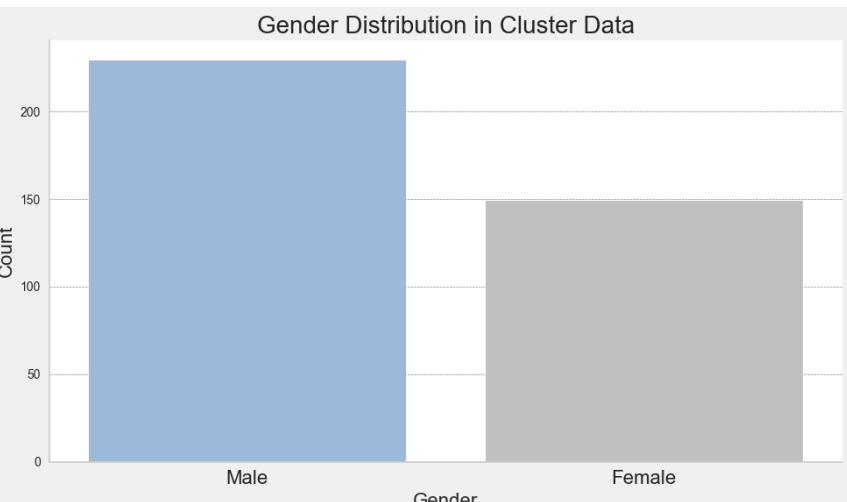
Distribution of Anchor Age



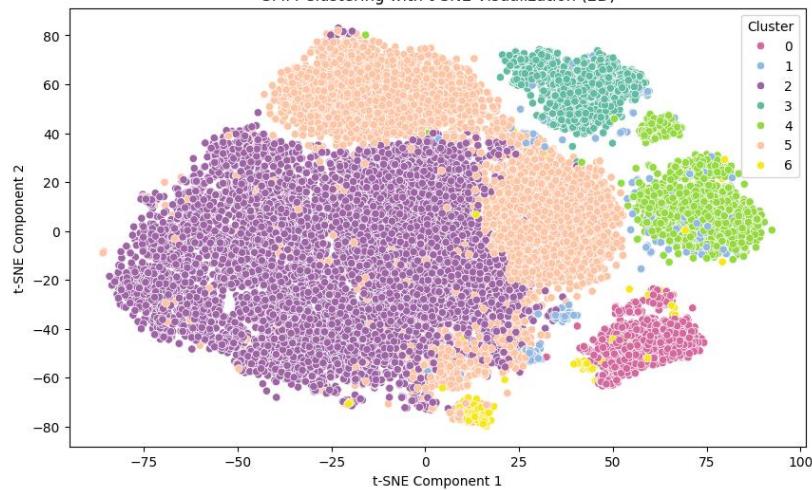
Mortality Rate by Cluster



Gender Distribution in Cluster Data

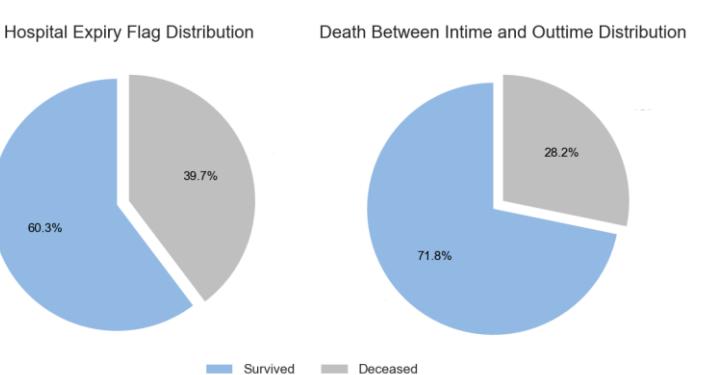
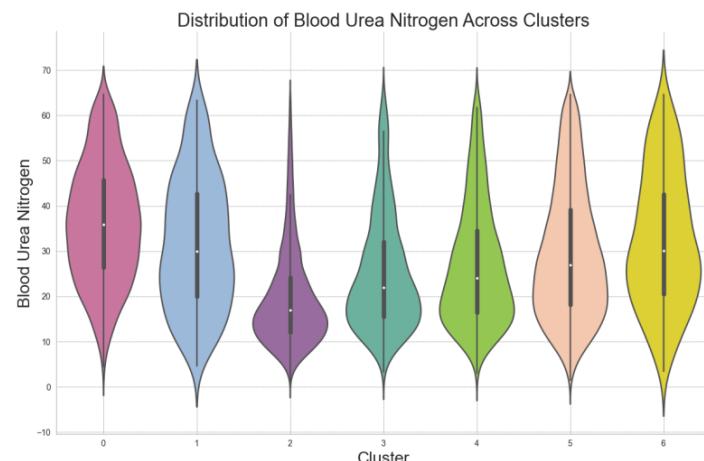
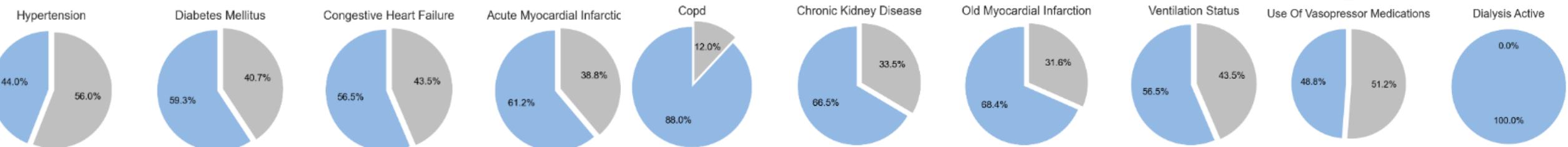


GMM Clustering with t-SNE Visualization (2D)

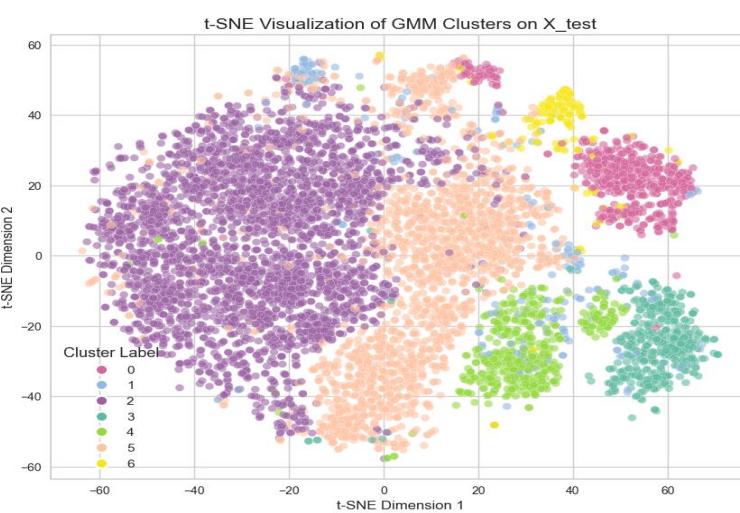
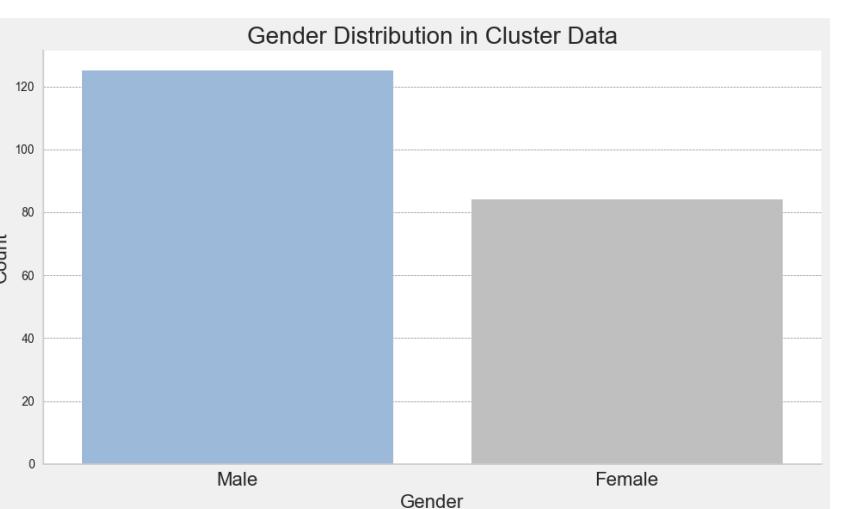
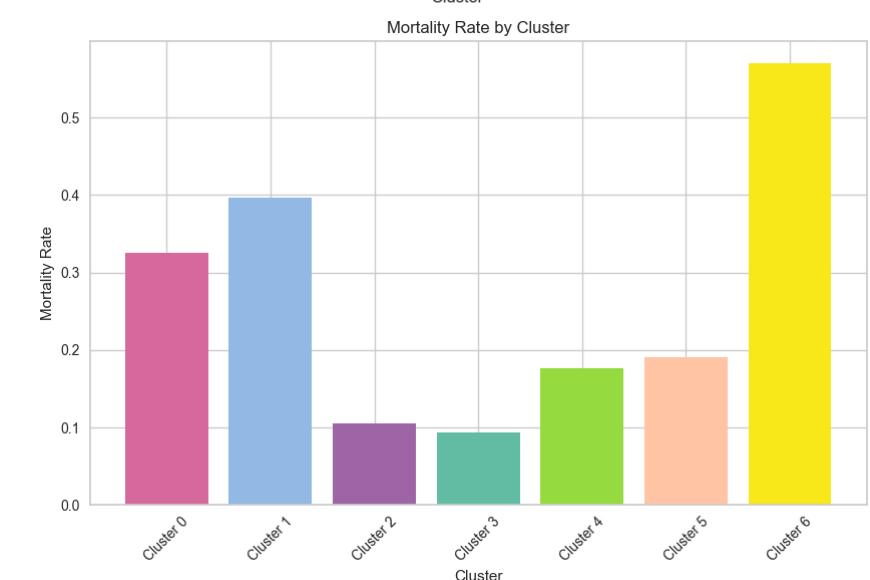
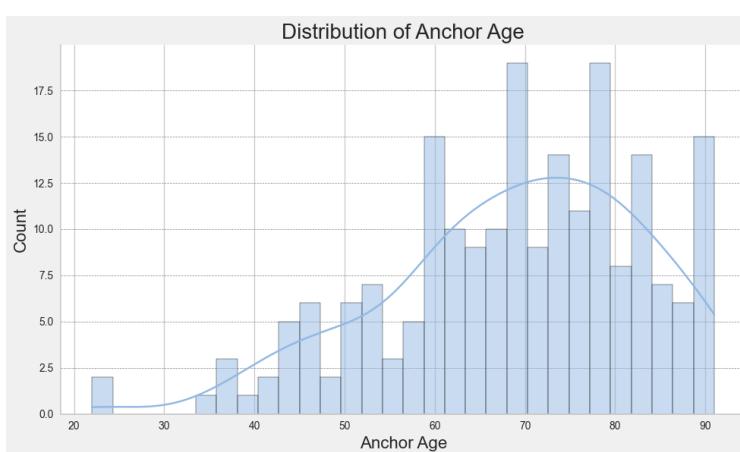


Detailed Insights from Test Data on Cluster 1: Patient Demographics and Health Outcomes

No
Yes



Survived	Deceased	Total	Mortality Rate
126	83	209	0.397129



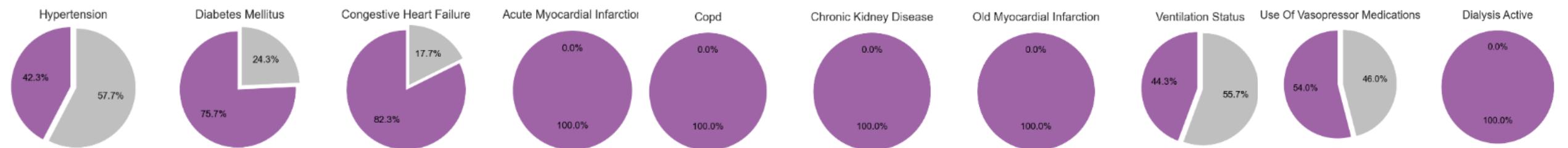
Detailed Insights from Training Data on Cluster 2: Patient Demographics and Health Outcomes

No
Yes

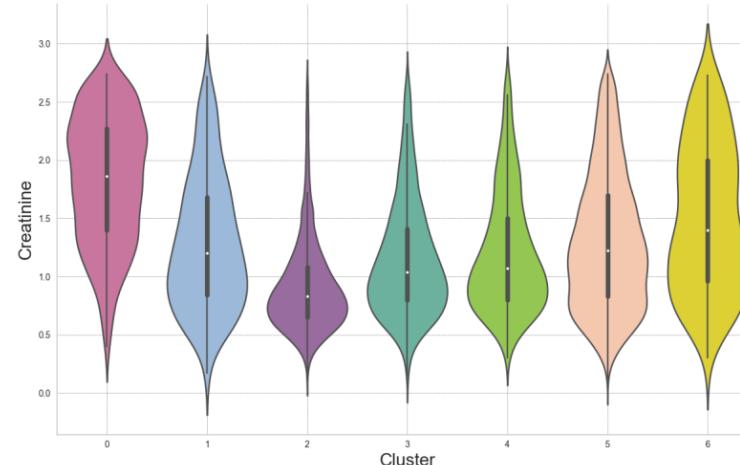


Detailed Insights from Test Data on Cluster 2: Patient Demographics and Health Outcomes

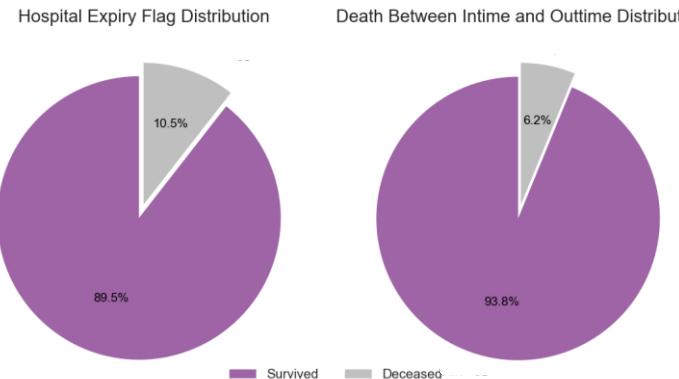
No
Yes



Distribution of Creatinine Across Clusters

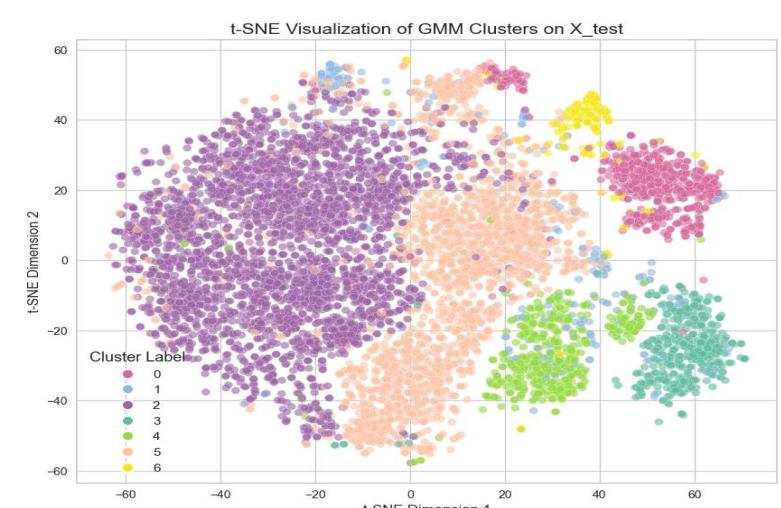
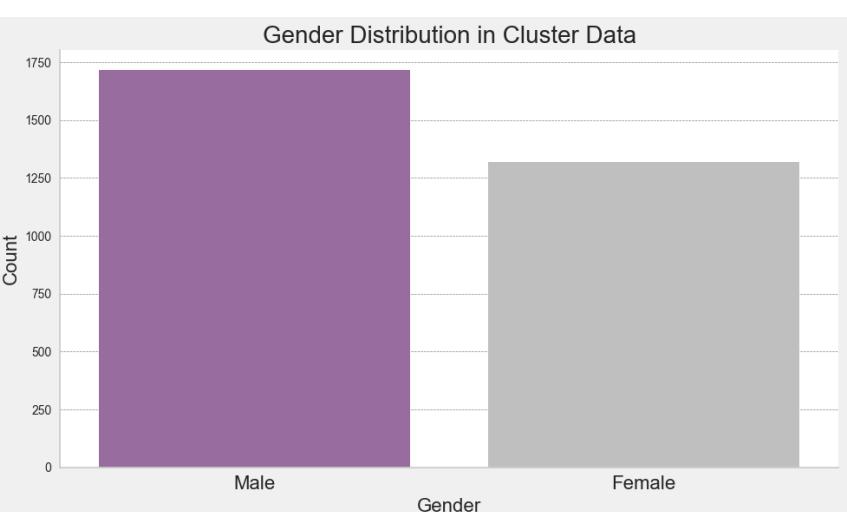
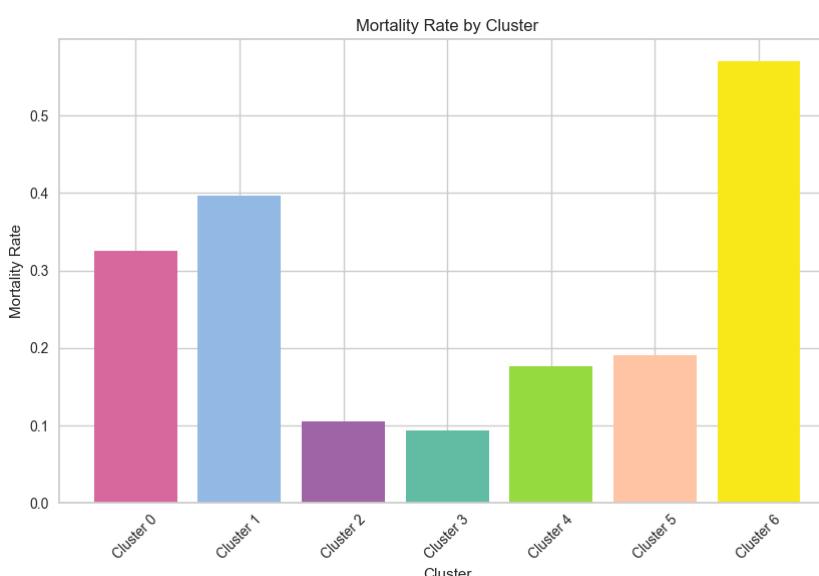
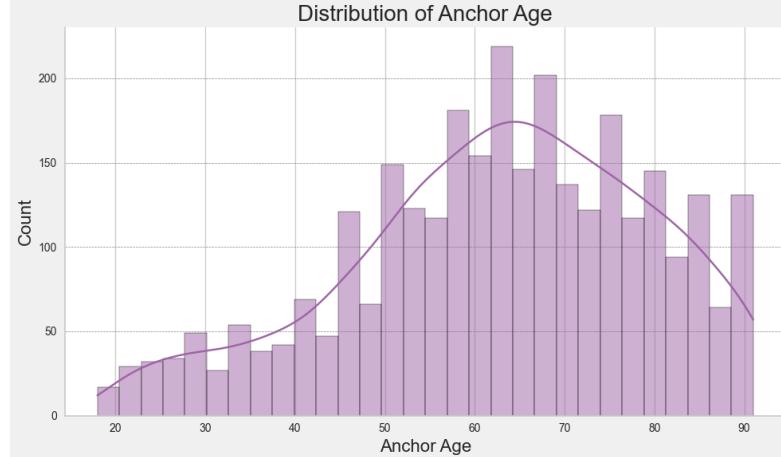


Hospital Expiry Flag Distribution



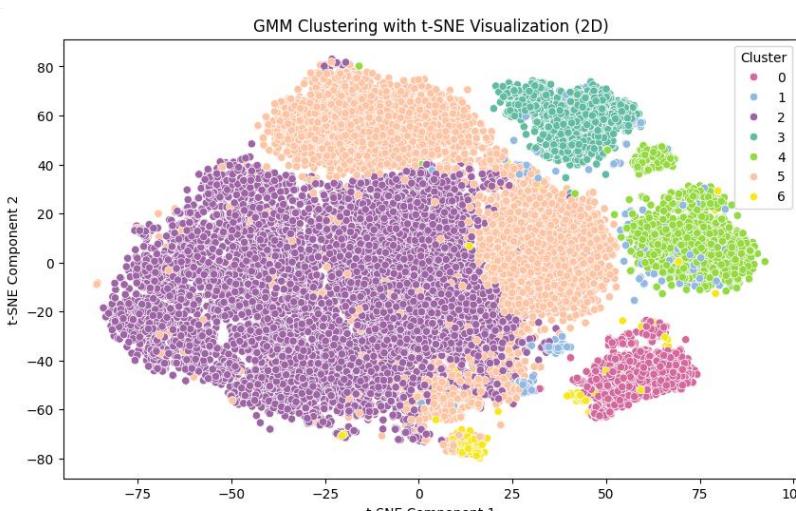
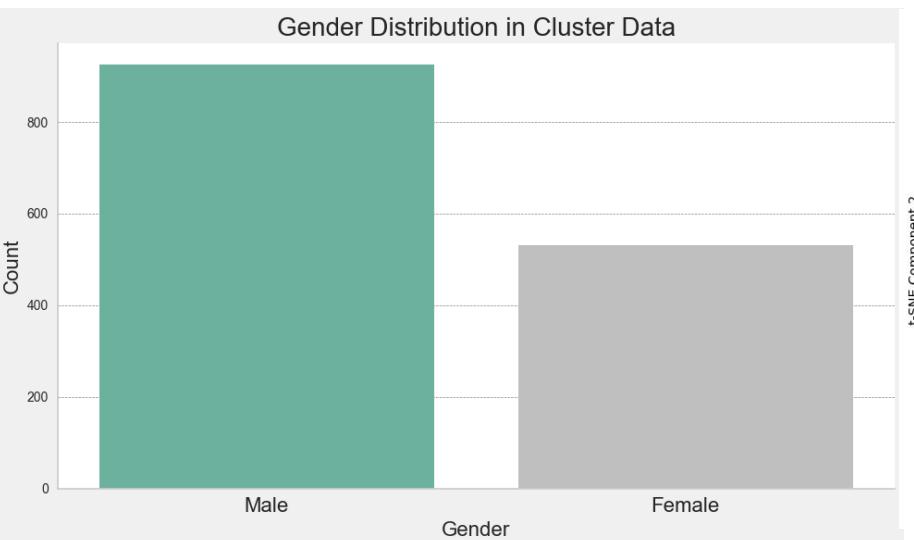
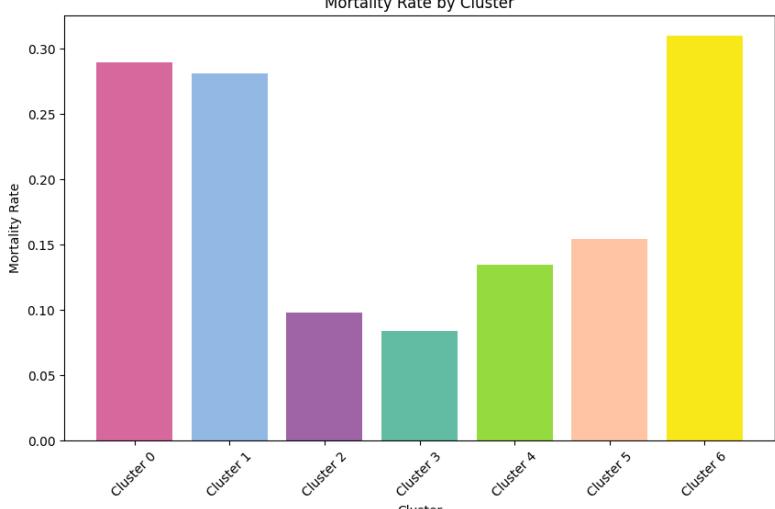
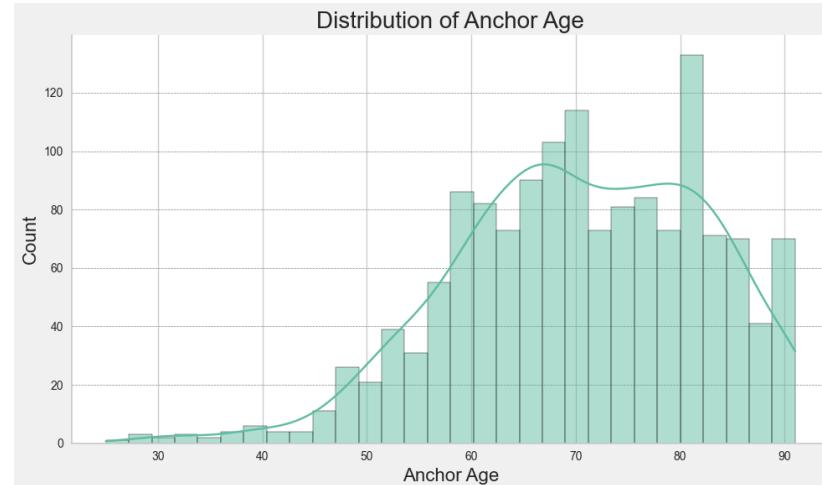
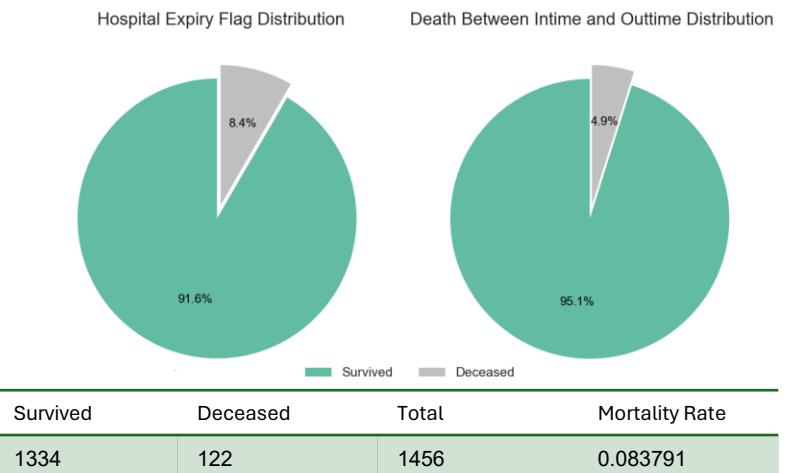
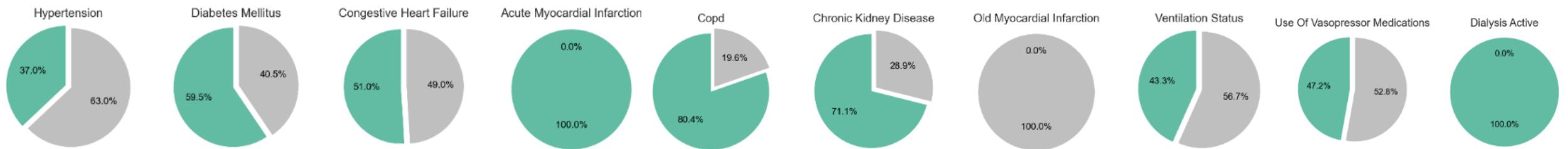
	Survived	Deceased	Total	Mortality Rate
	2715	320	3035	0.105437

Death Between Intime and Outtime Distribution



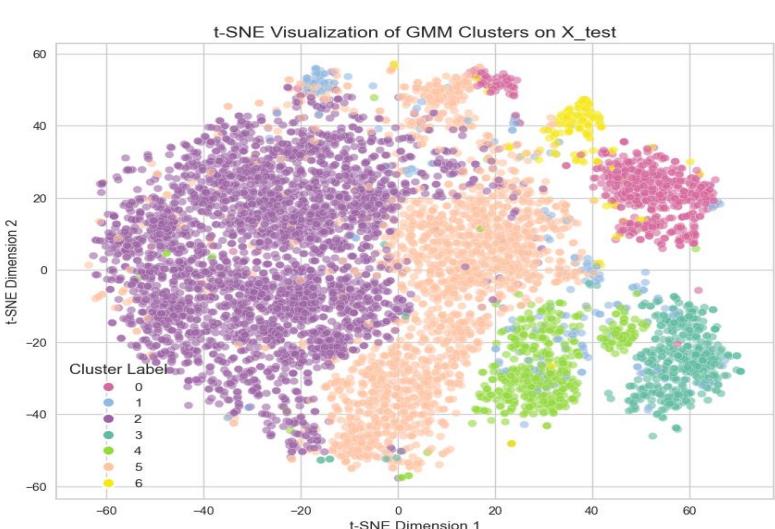
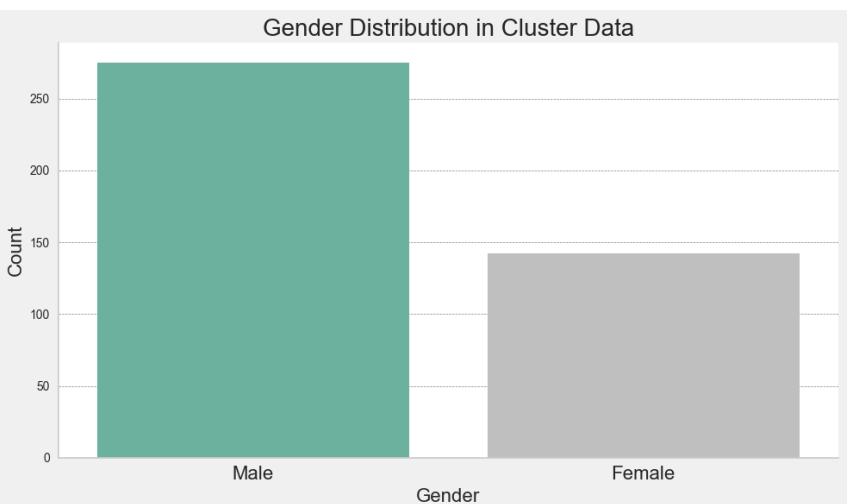
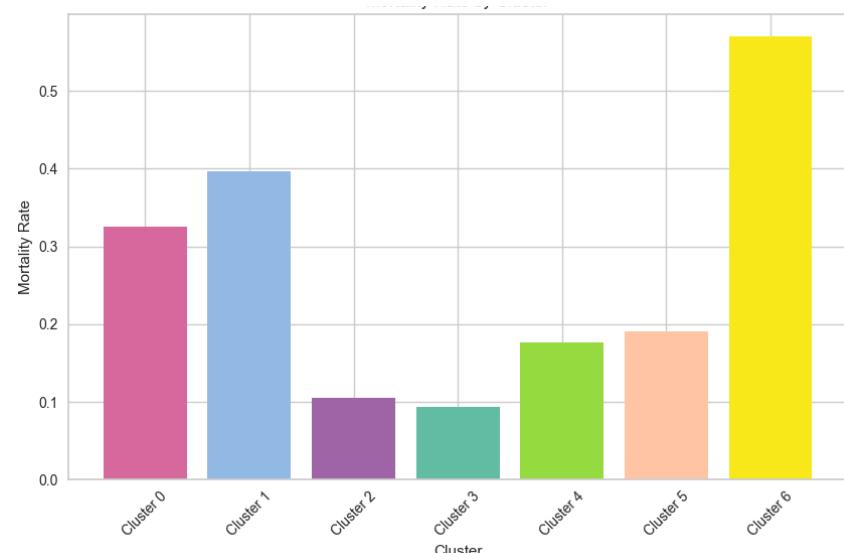
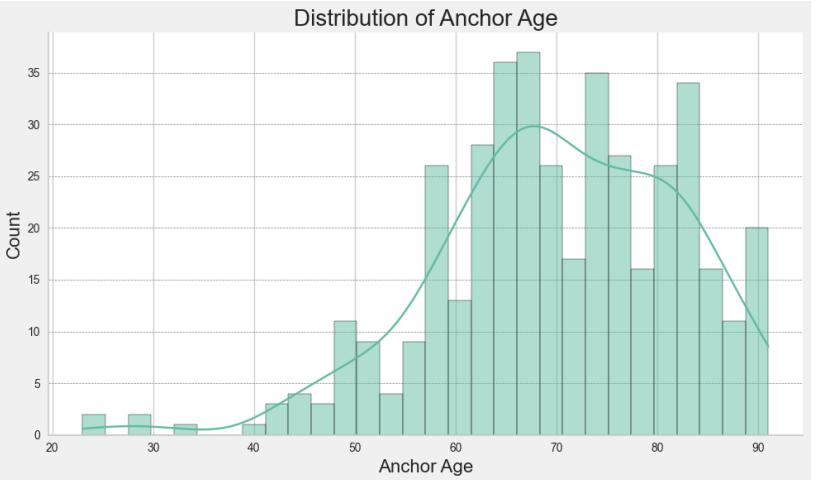
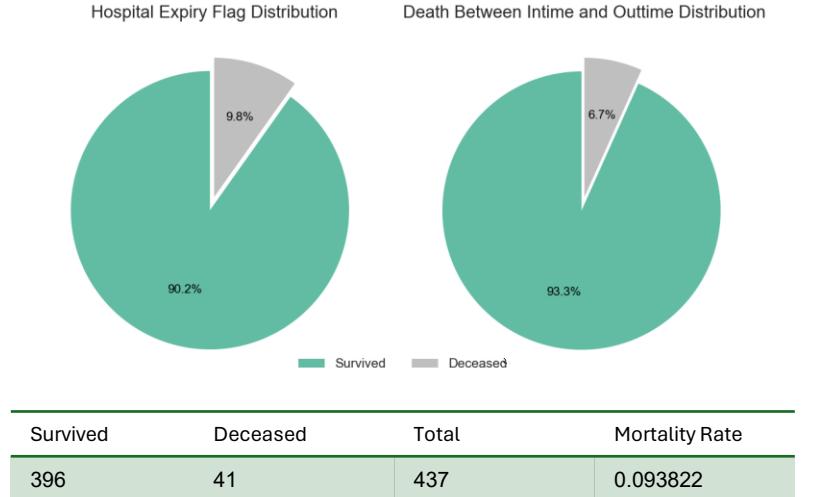
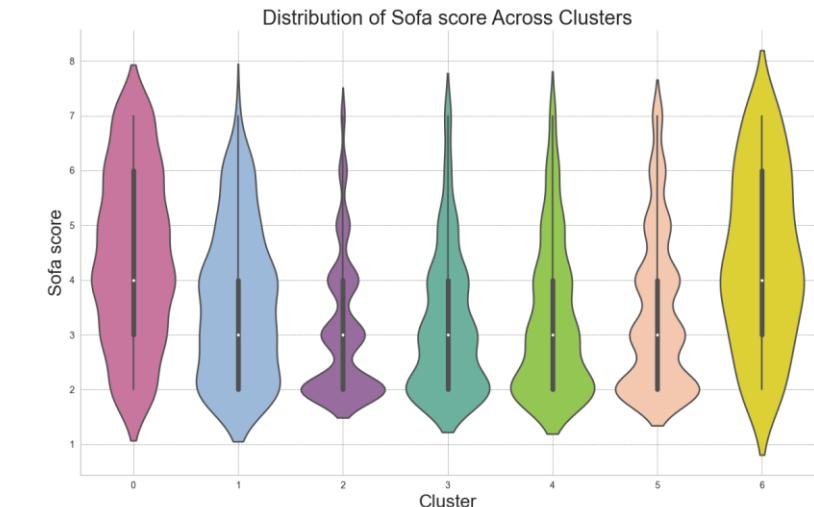
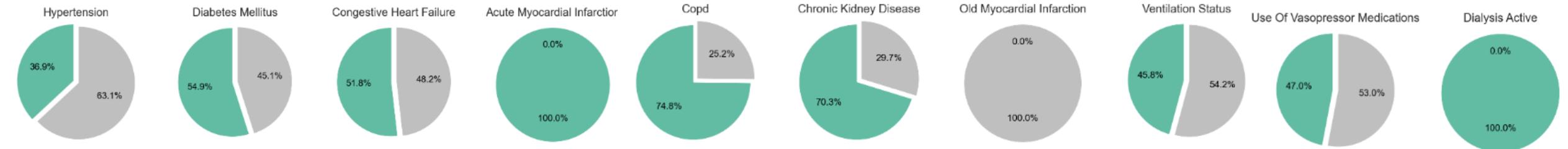
Detailed Insights from Training Data on Cluster 3: Patient Demographics and Health Outcomes

No
Yes



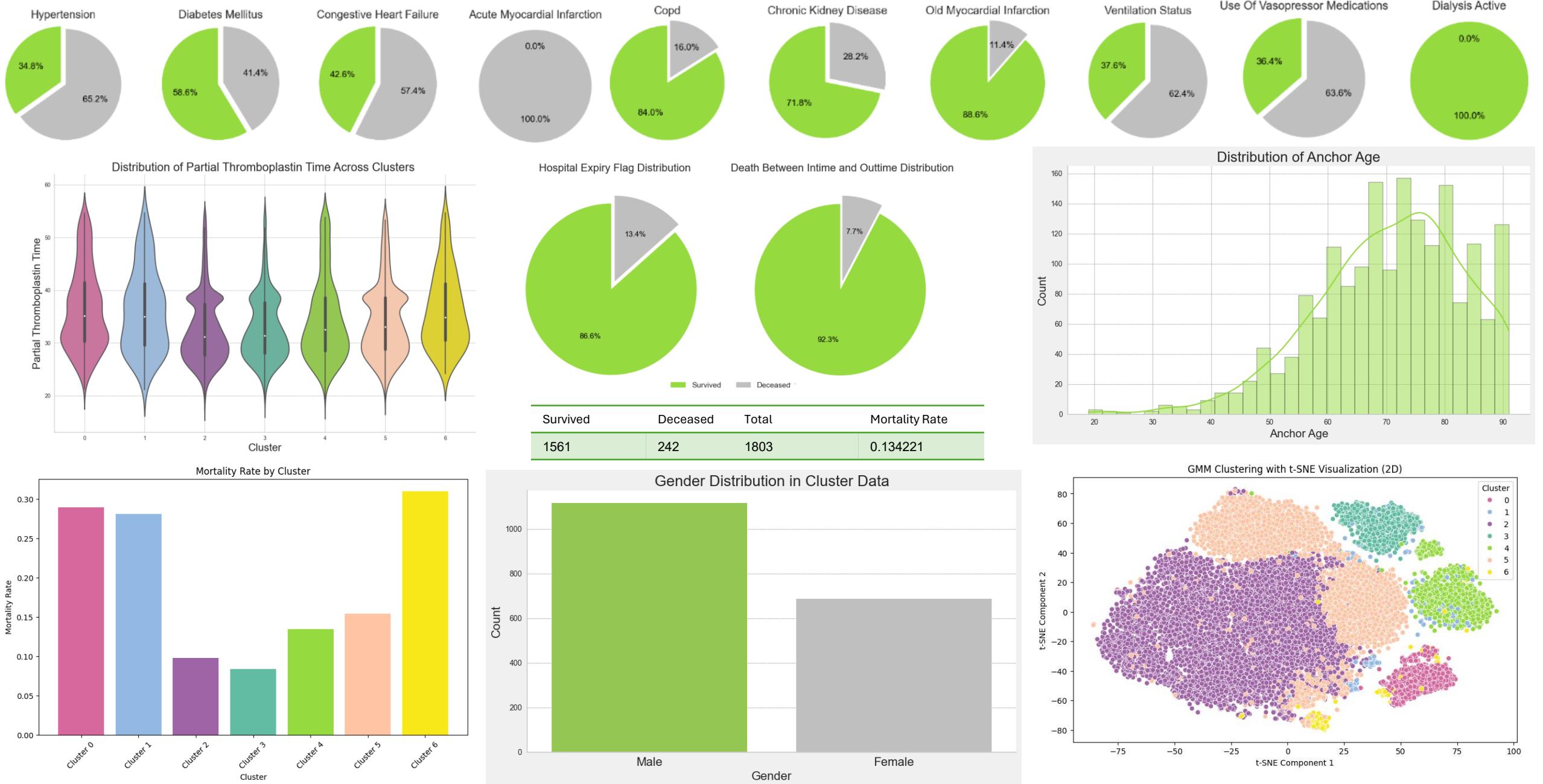
Detailed Insights from Test Data on Cluster 3: Patient Demographics and Health Outcomes

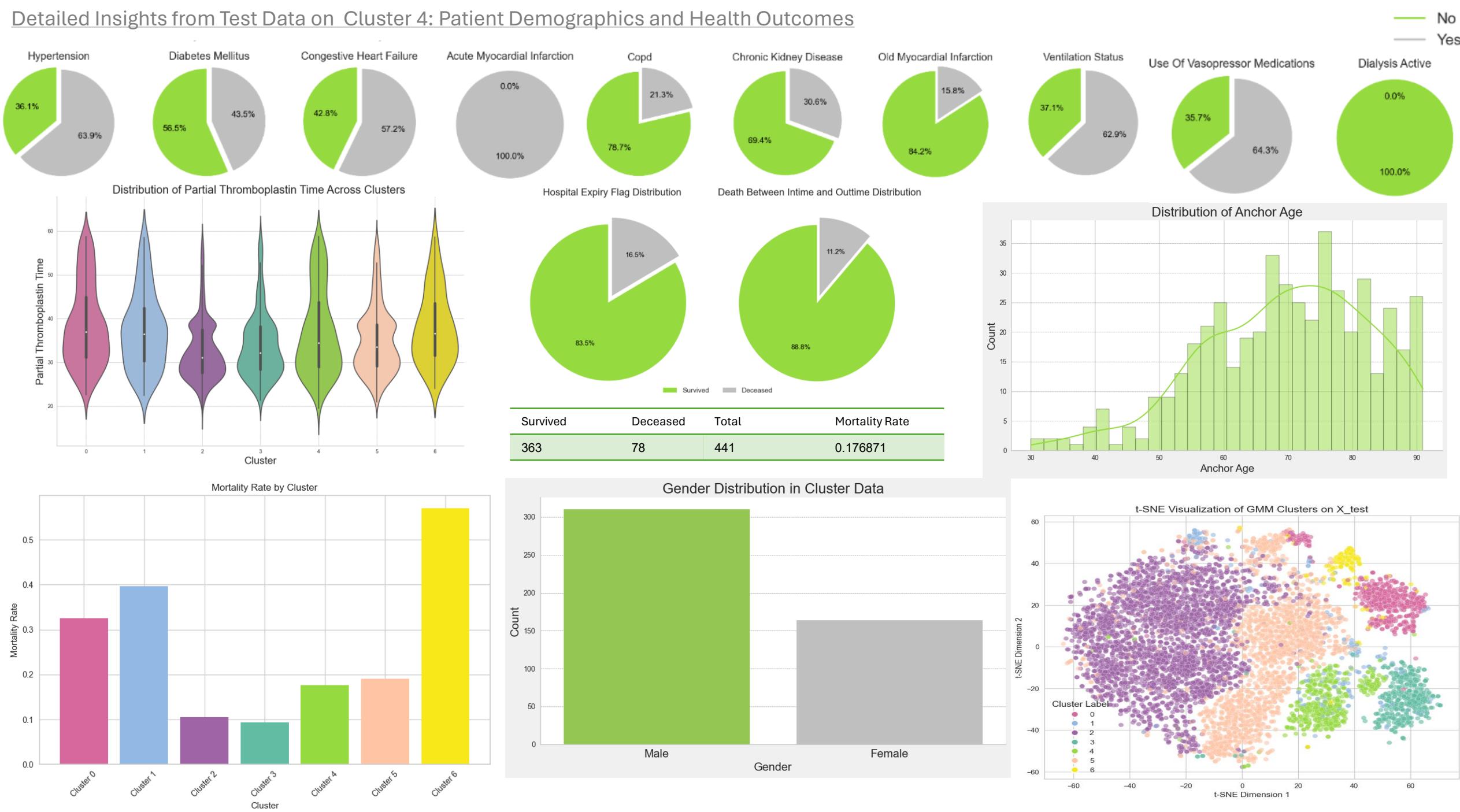
No
Yes



Detailed Insights from Training Data on Cluster 4: Patient Demographics and Health Outcomes

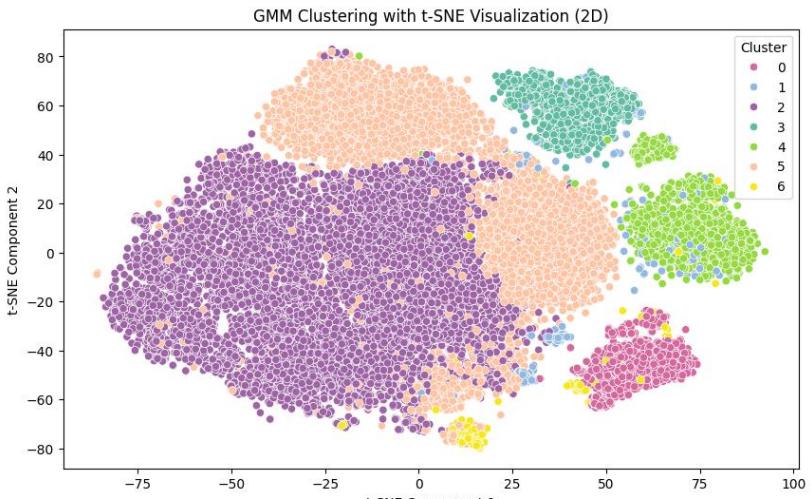
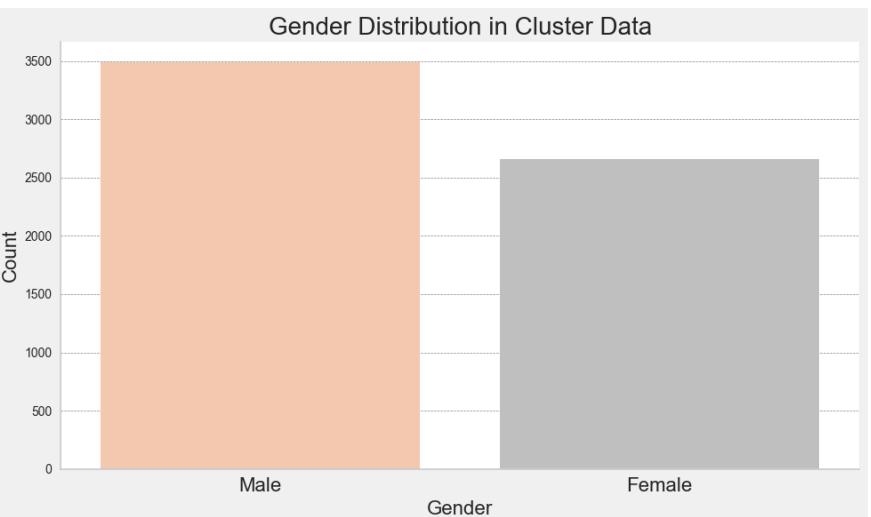
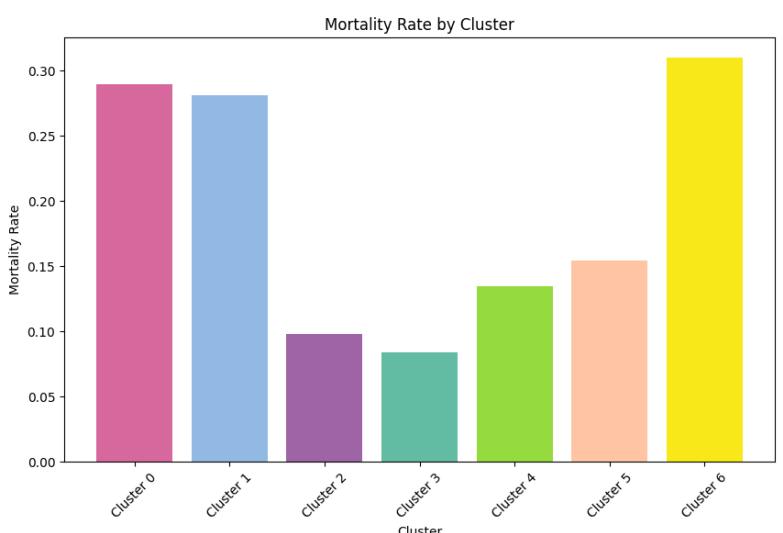
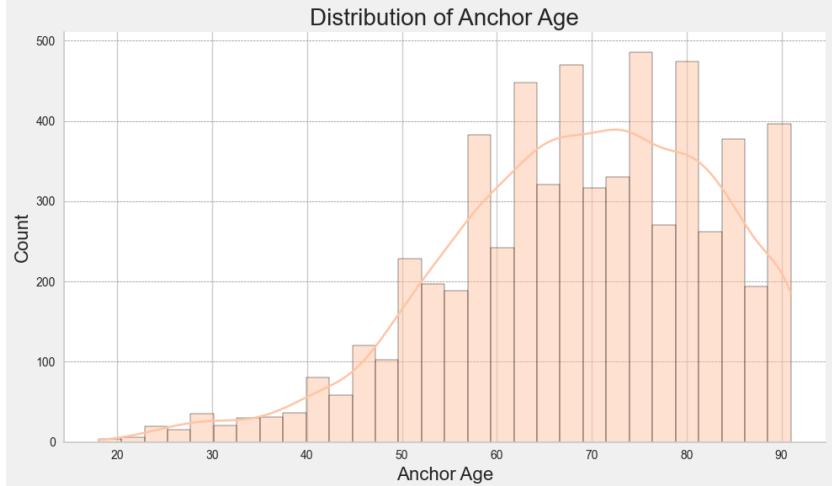
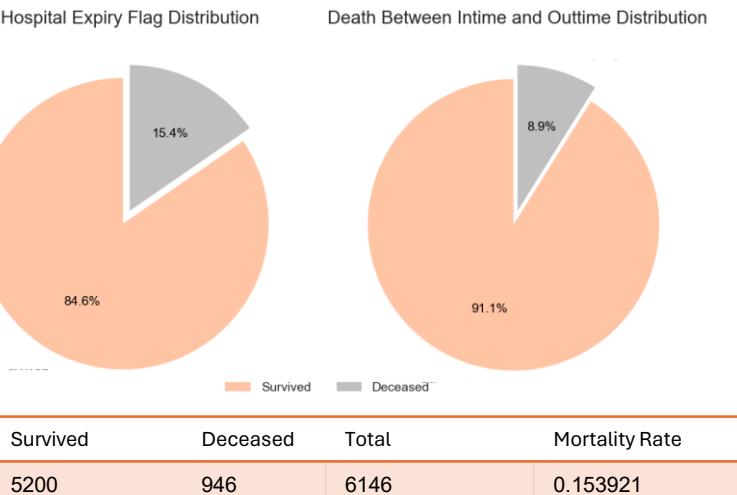
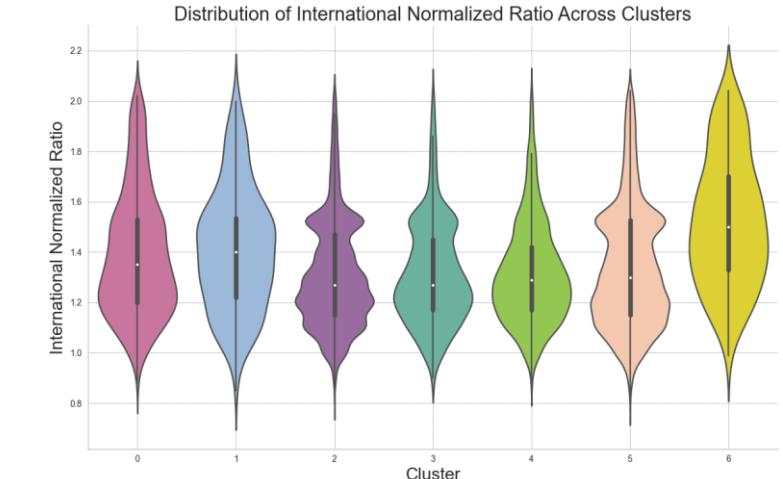
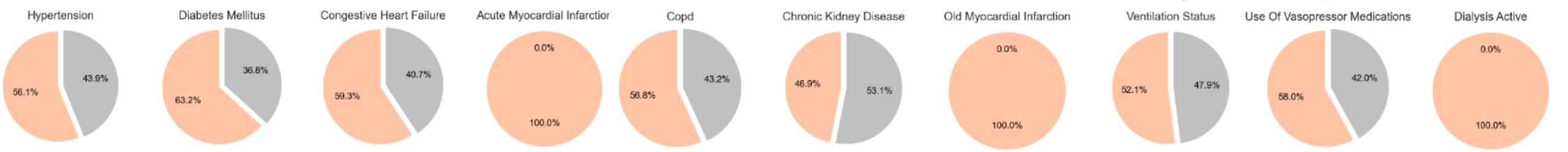
No
Yes





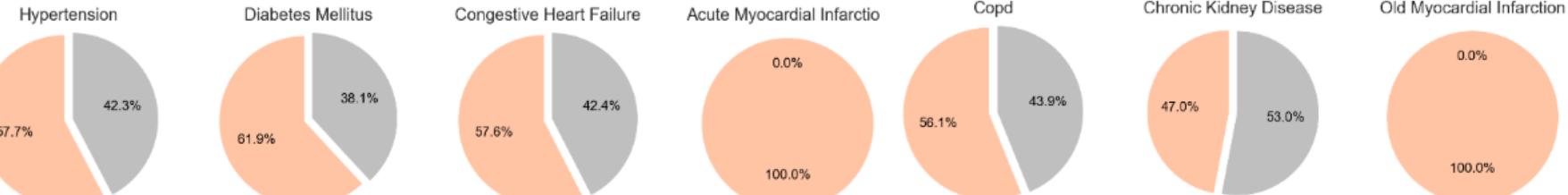
Detailed Insights from Training Data on Cluster 5: Patient Demographics and Health Outcomes

No
Yes

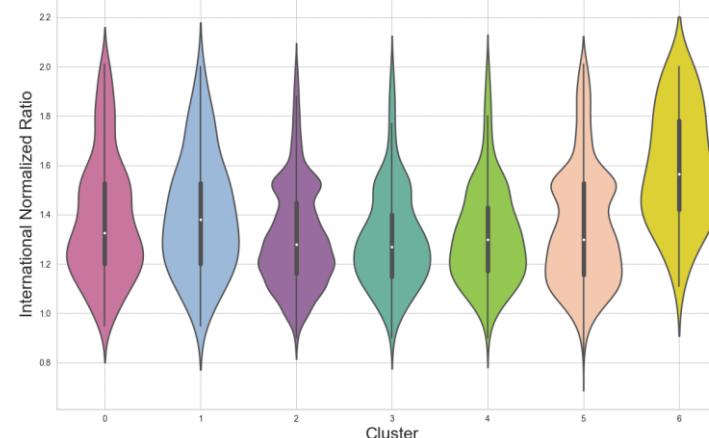


Detailed Insights from Test Data on Cluster 5: Patient Demographics and Health Outcomes

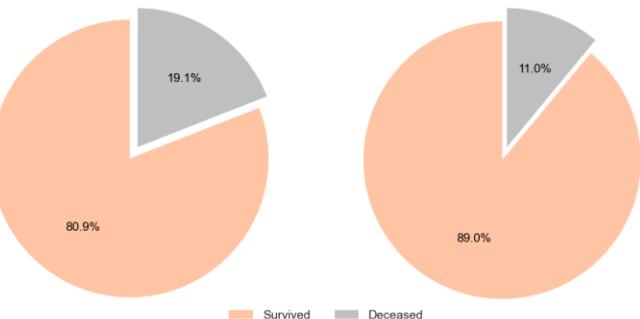
No
Yes



Distribution of International Normalized Ratio Across Clusters

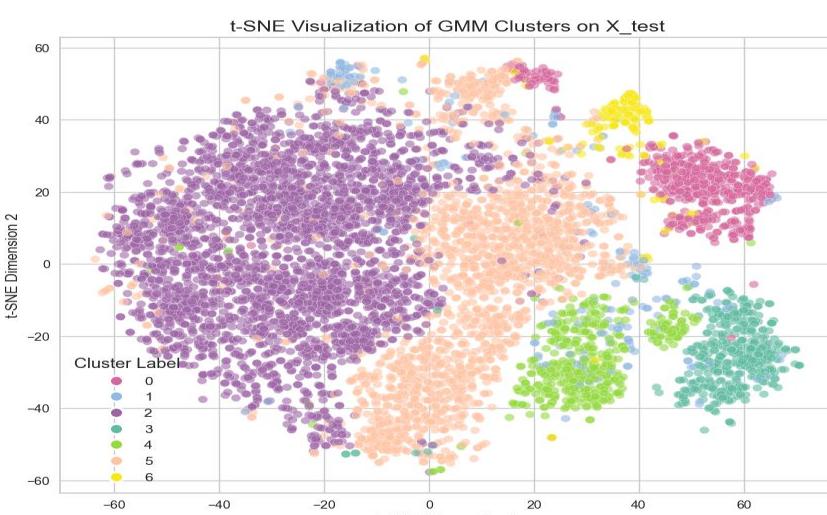
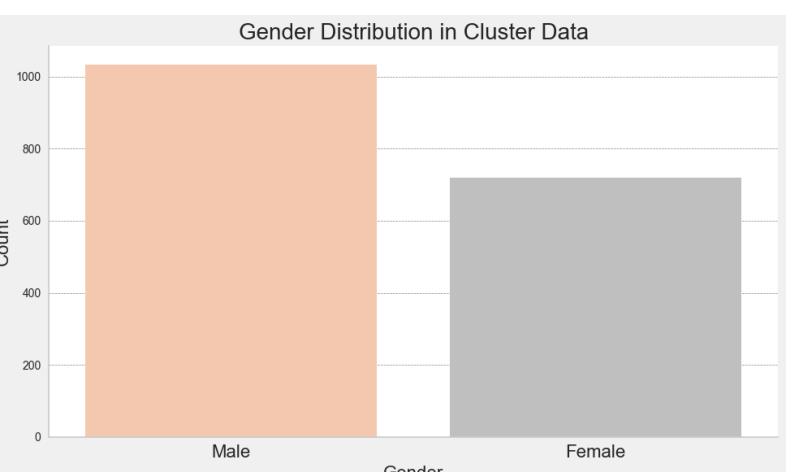
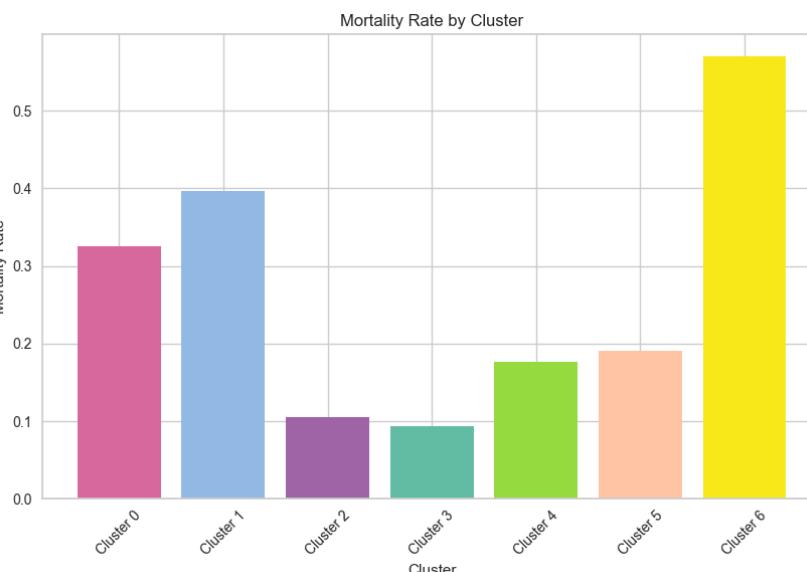
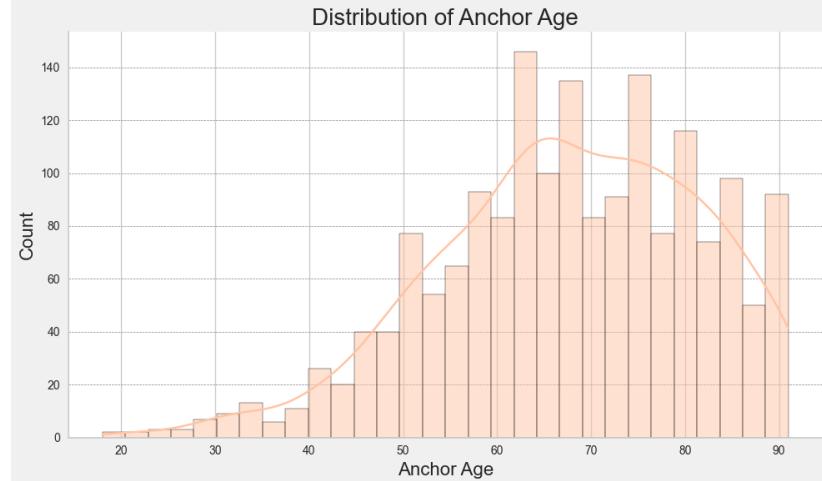


Hospital Expiry Flag Distribution



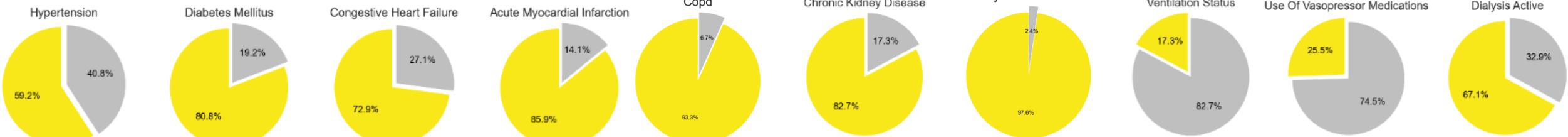
Survived	Deceased	Total	Mortality Rate
1419	334	1753	0.190531

Death Between Intime and Outtime Distribution

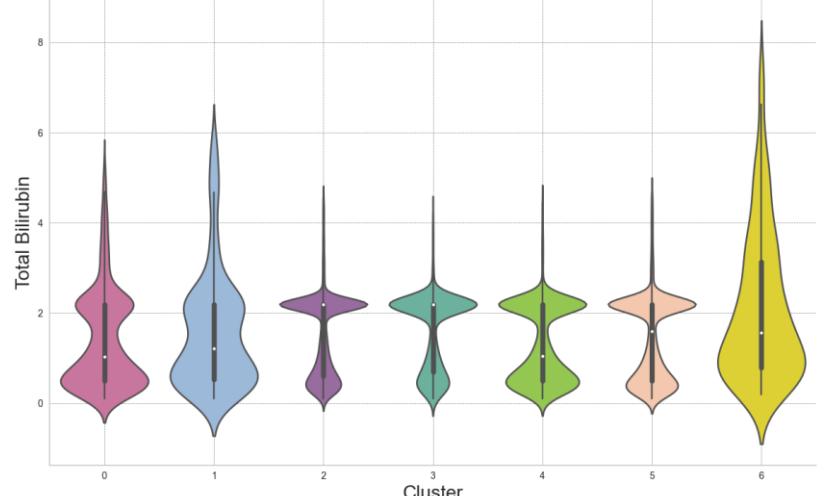


Detailed Insights from Training Data on Cluster 6: Patient Demographics and Health Outcomes

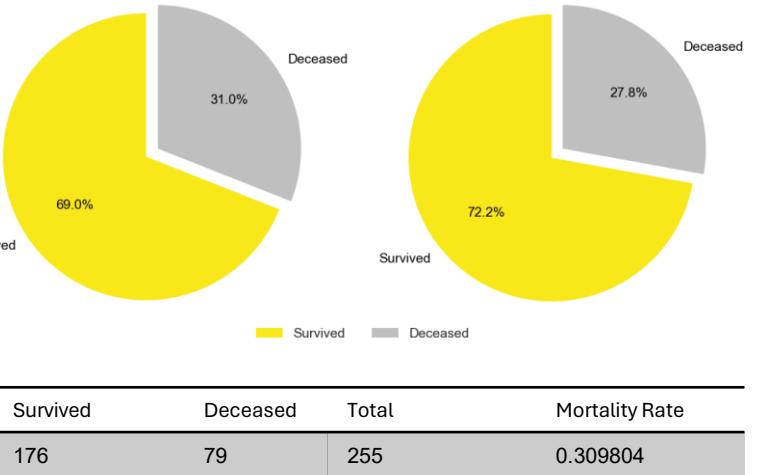
No
Yes



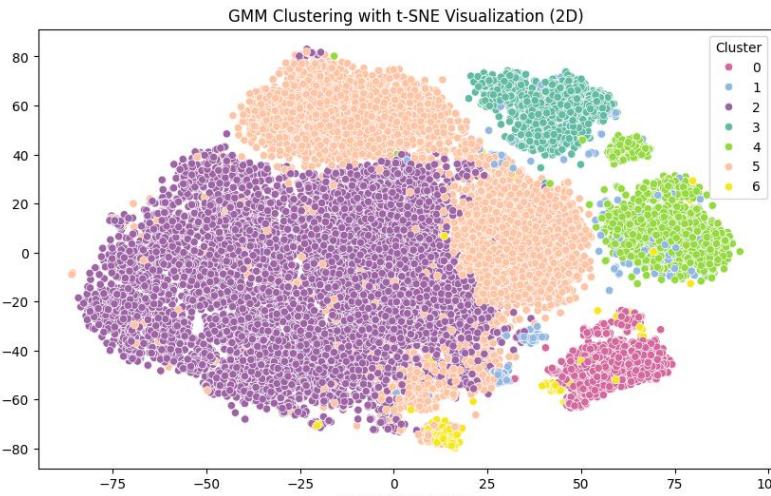
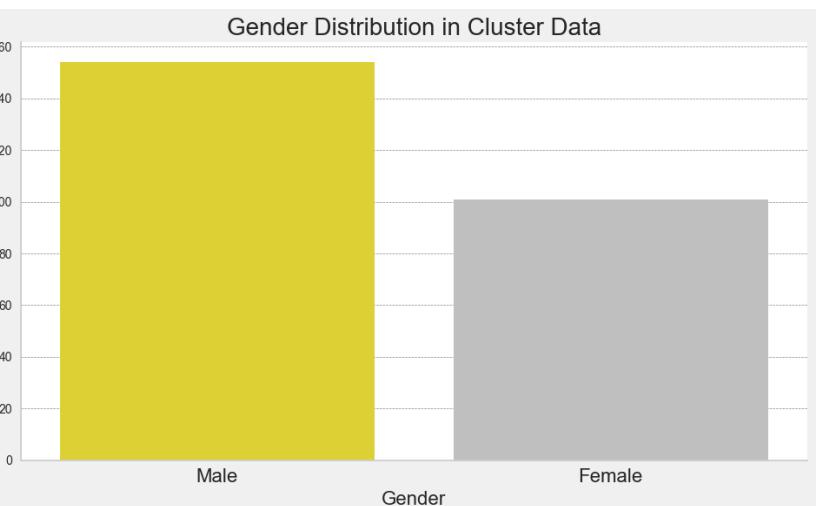
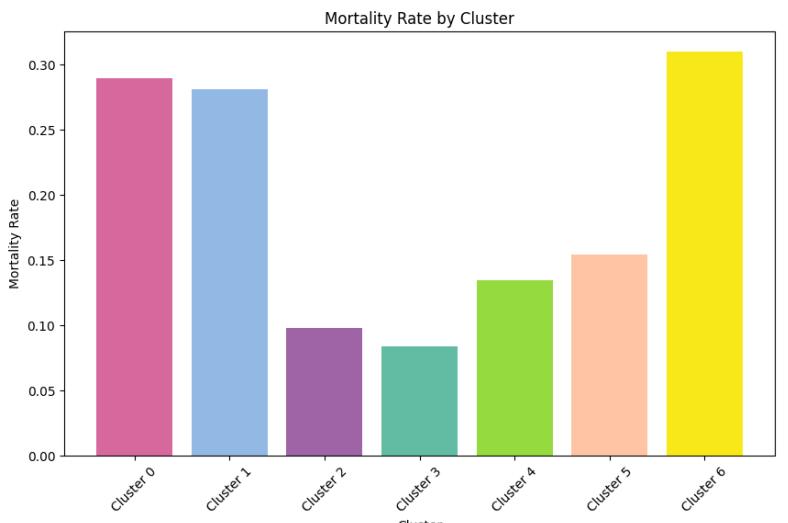
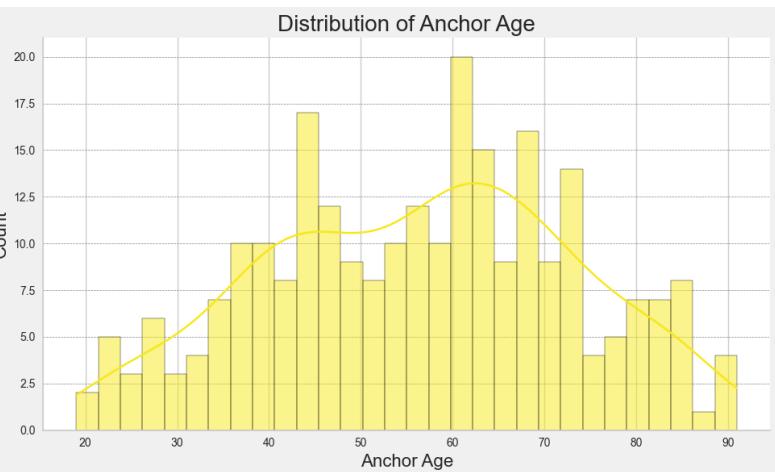
Distribution of Total Bilirubin Across Clusters



Hospital Expiry Flag Distribution

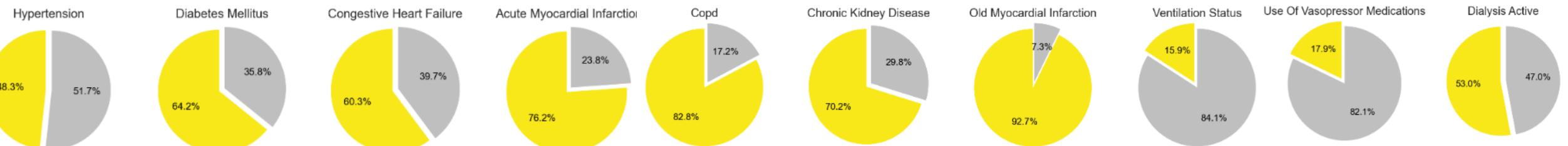


Death Between Intime and Outtime Distribution

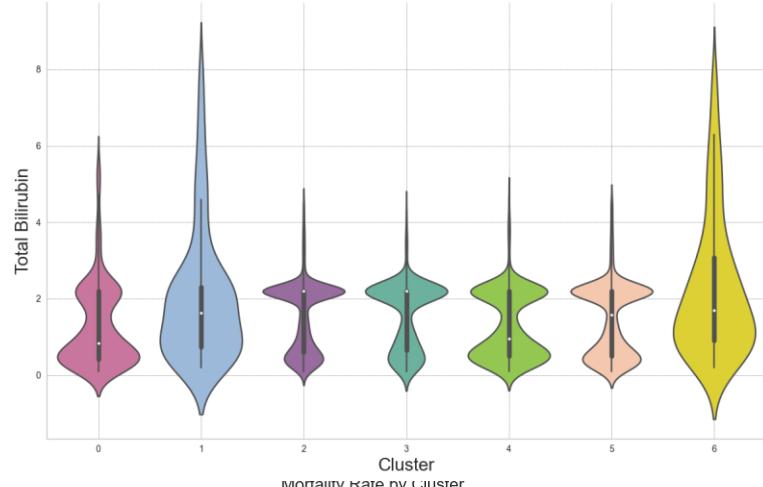


Detailed Insights from Test Data on Cluster 6: Patient Demographics and Health Outcomes

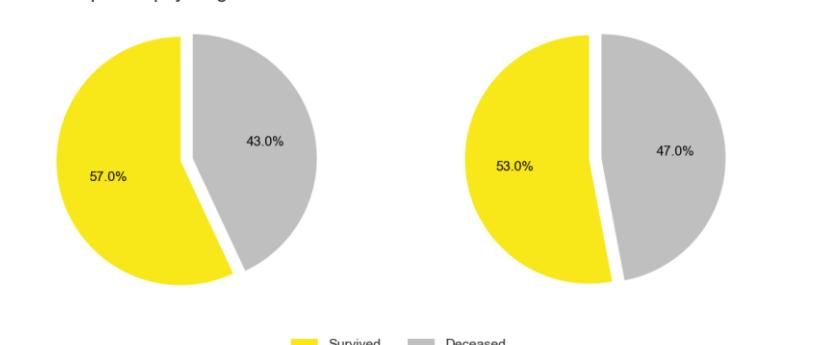
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Yes



Distribution of Total Bilirubin Across Clusters

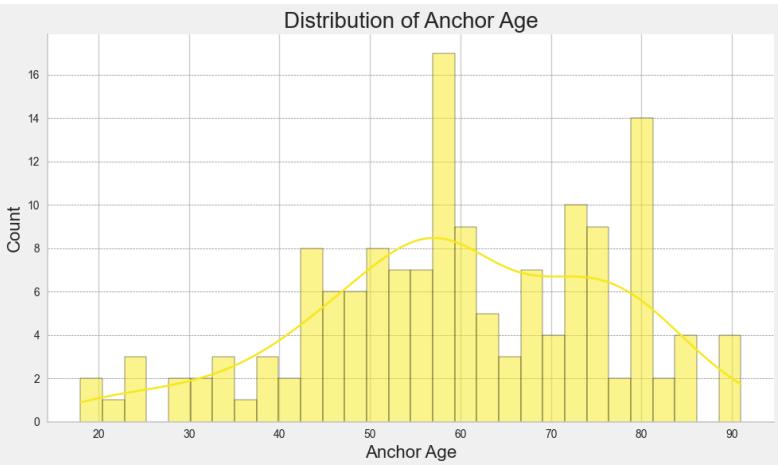


Hospital Expiry Flag Distribution

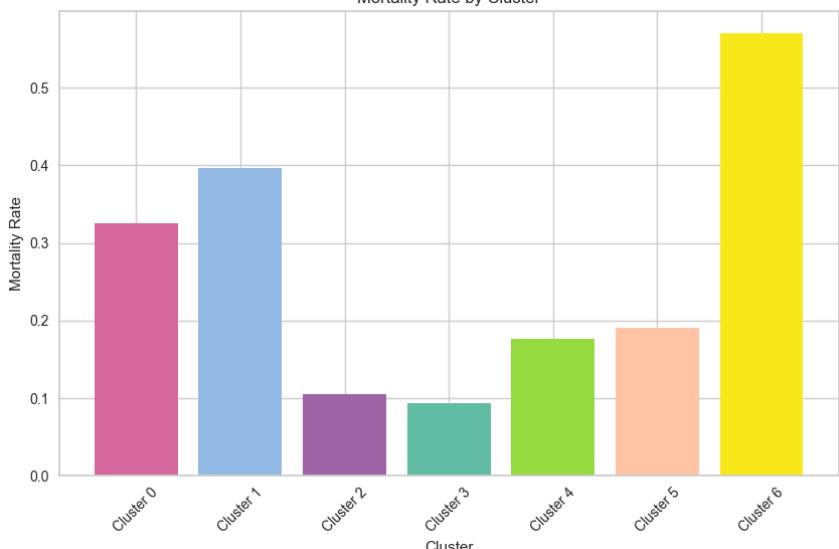


	Survived	Deceased	Total	Mortality Rate
	65	86	151	0.569536

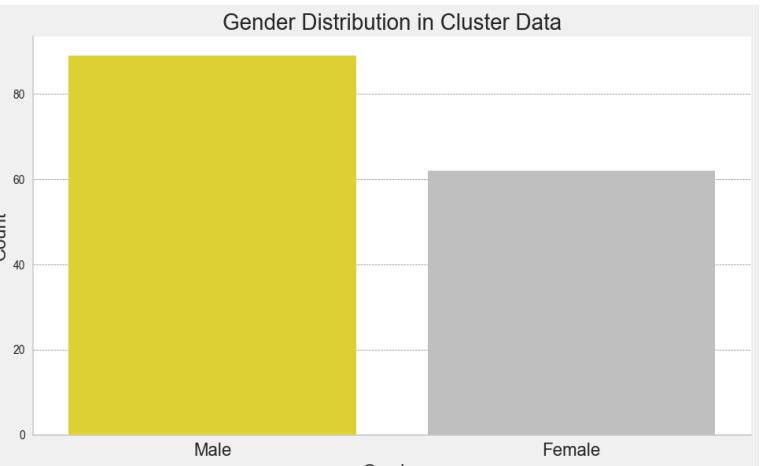
Death Between Intime and Outtime Distribution



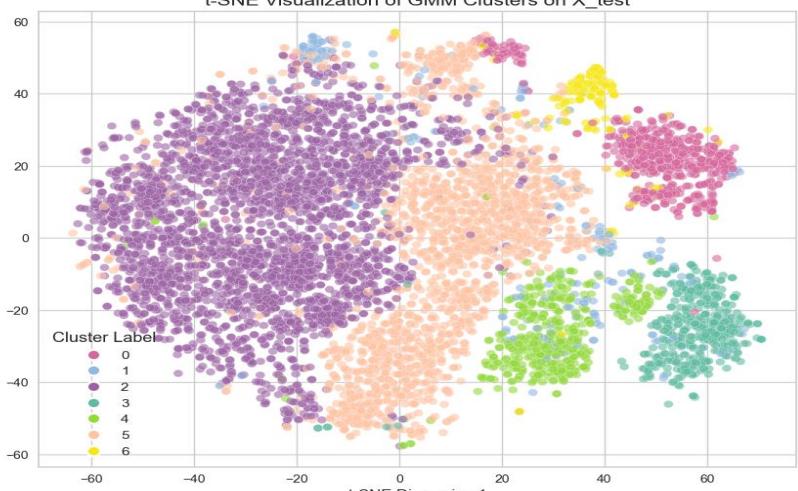
Mortality Rate by Cluster



Gender Distribution in Cluster Data



t-SNE Visualization of GMM Clusters on X_test



Predicting Mortality in Intensive Care Units Using CatBoost Classifier

Features

