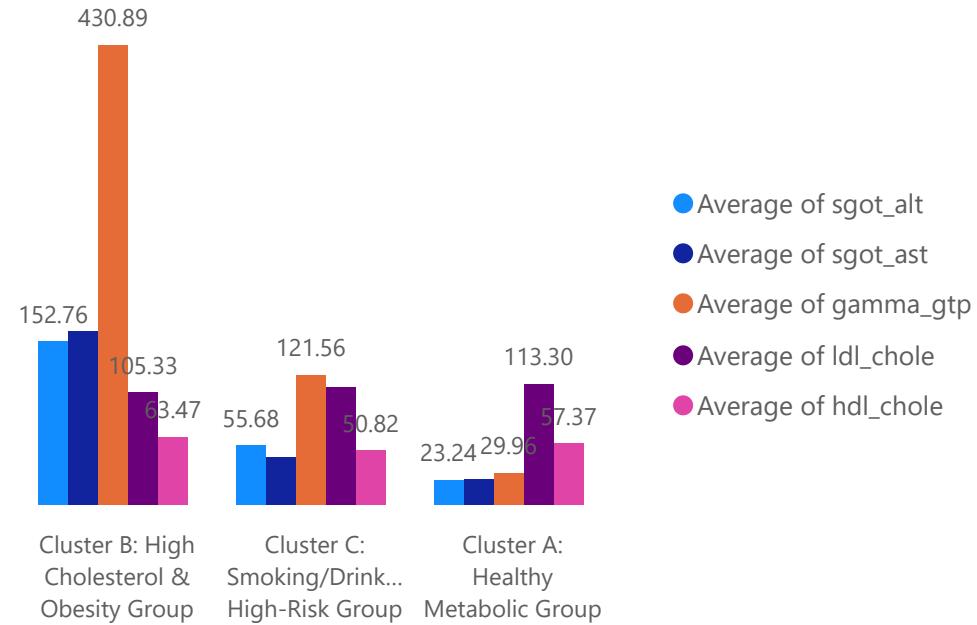
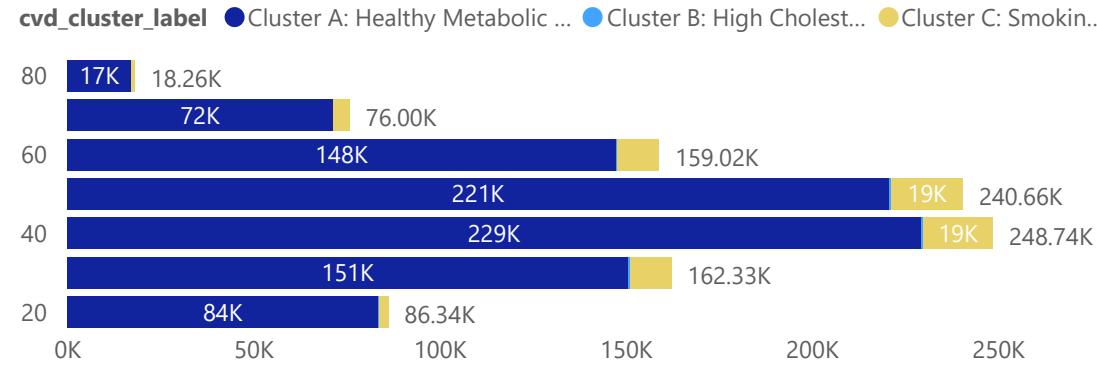


### Avg of Liver Enzymes in each cluster



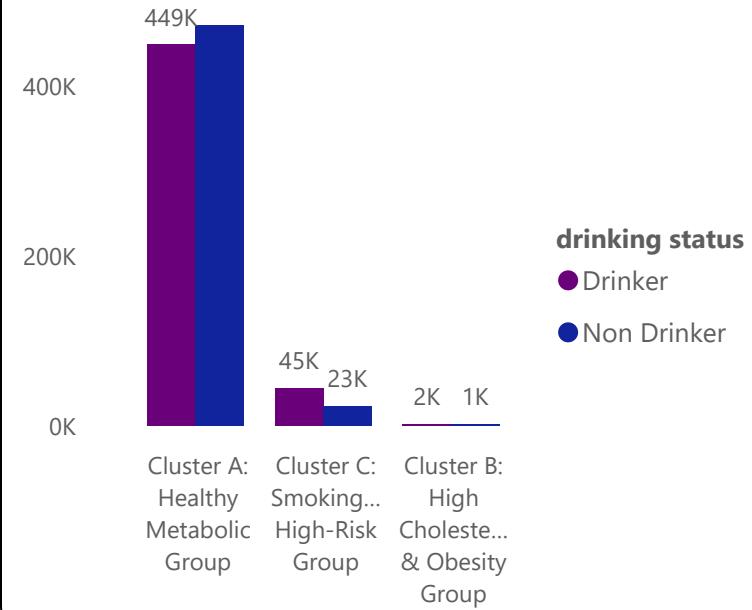
Rising Gamma-GTP signals that risky habits are stressing the liver, offering an early chance to prevent hypertension and CVD.

### Clusters by age group



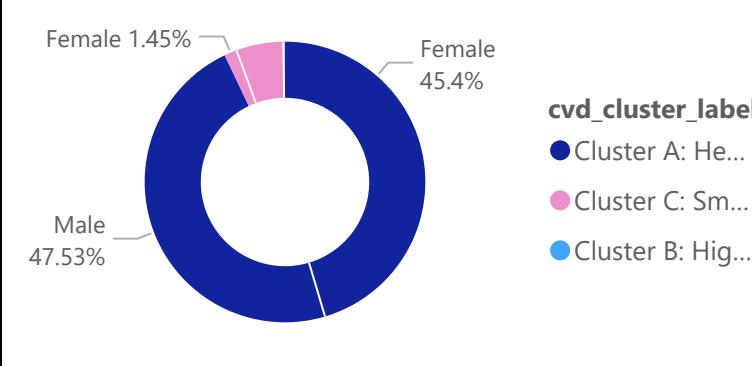
The visualization shows the age distribution of the risk groups. Most individuals in the high-risk cluster fall within the 40-60 age range, with some cases appearing in their 30s as well.

### Cluster with drinking status



The visualization shows the drinking status across all groups. In the high-risk group, nearly 45,000 individuals continue to consume alcohol.

### Cluster by gender



CVD prevention must be tailored: men need targeted behavioral interventions, while metabolic risks call for broad strategies across all adults.

## Cardiovascular Disease Clustering (GMM)