

Supplementary Material: EchoMEN: Combating Data Imbalance in Ejection Fraction Regression via Multi-Expert Network

1 Evaluation Metrics

- **MAE**: the mean absolute error

$$MAE = \frac{1}{N} \sum_{i=1}^N |y_i - \hat{y}_i| \quad (1)$$

- **MSE**: the mean squared error

$$MSE = \frac{1}{N} \sum_{i=1}^N (y_i - \hat{y}_i)^2 \quad (2)$$

- **GM**: the geometric mean

$$GM = \left(\prod_{i=1}^N |y_i - \hat{y}_i| \right)^{\frac{1}{N}} \quad (3)$$

For i -th sample, y_i is the ground truth label, \hat{y}_i is the prediction, and N is the number of samples. For all metrics, lower is better.

2 Additional Analysis

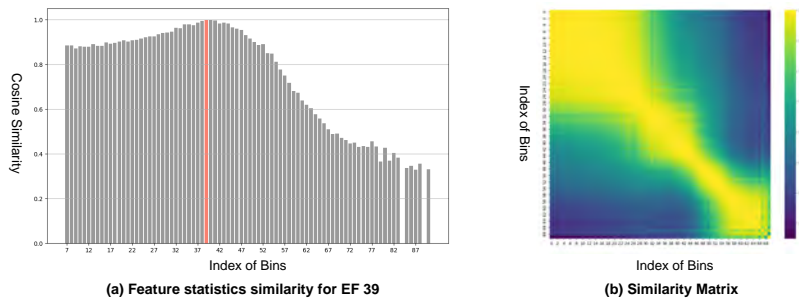


Fig. S1. We calculate the average features extracted by video encoder for each bin. (a) shows the feature statistics similarity distribution for a specific bin. (b) is the heatmap plot of cosine similarity between average features of different bins. The feature exhibits strong continuity, validating the inductive bias of $\mathcal{L}_{LDW-SupCon}$.