

Comparing Pretraining Strategies for Intra-Oral Image Analysis Under Limited Annotation Budgets

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ResNet-50
From scratch or ImageNet



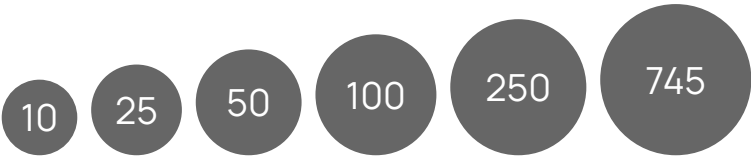
Dental MAE
Domain Specific Self-Supervised Learning (SSL)



DINOv2
Foundation model with partial adaptation



Annotation
budget



Which strategy performs best across annotation budgets?

Main findings

1 FEW LABELS

DINOv2 provides strong representations for intra-oral images

2 MORE LABELS

Deeper DINOv2 adaptation performs best with more labels

3 DOMAIN-SPECIFIC

Increasing domain-specific SSL data does not lead to consistent gains