

Domain Mixture Strategies

General + Medical Data Mixing Ratio

Optimal balance for domain adaptation

Mixing Ratios

- **90% Medical / 10% General:** Strong specialization
- **80% Medical / 20% General:** Recommended baseline
- **70% Medical / 30% General:** Preserve general capabilities
- **50/50:** Multi-domain applications

80/20

Optimal Ratio

+12%

Medical Accuracy

-2%

General Accuracy

Domain Adaptation Levels

- **High Adaptation:** Clinical specialists (95% medical)
- **Moderate:** Medical assistants (80% medical)
- **Low:** General health chatbots (60% medical)

Dynamic Mixing

- Start with 50/50, gradually increase medical data

- Monitor both domain performances
- Adjust based on validation metrics