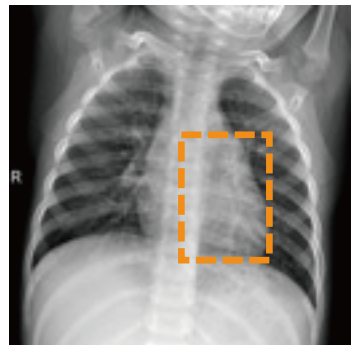
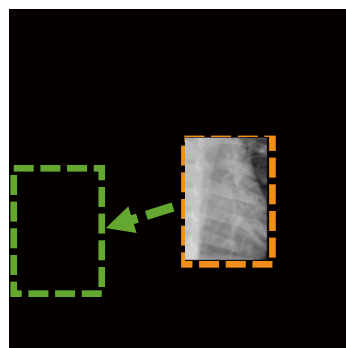


Normal chest radiograph



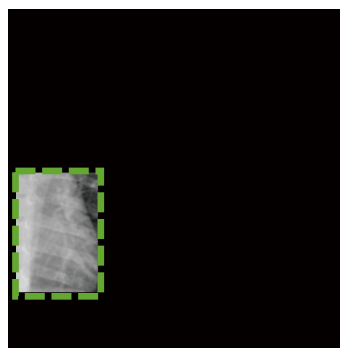
$X_{\text{normal}}$

Random crop



$X_{\text{crop}}$

Random paste



$X_{\text{paste}}$

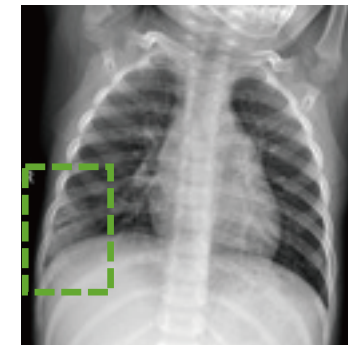
Anatomical mask



$X_{\text{mask}}$

$$X_{\text{normal}} * (1 - X_{\text{mask}}) + X_{\text{paste}} * X_{\text{mask}}$$

Augmented anomaly



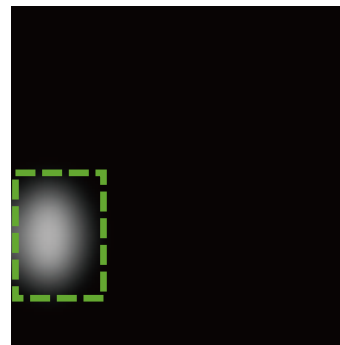
$X_{\text{anomaly}}$

Segmented lung region



$X_{\text{seg}}$

Blurred region



$X_{\text{blur}}$



Cropping region



Pasting region



Element-wise multiplication