

Chest X-ray Classification and Shadow Removal

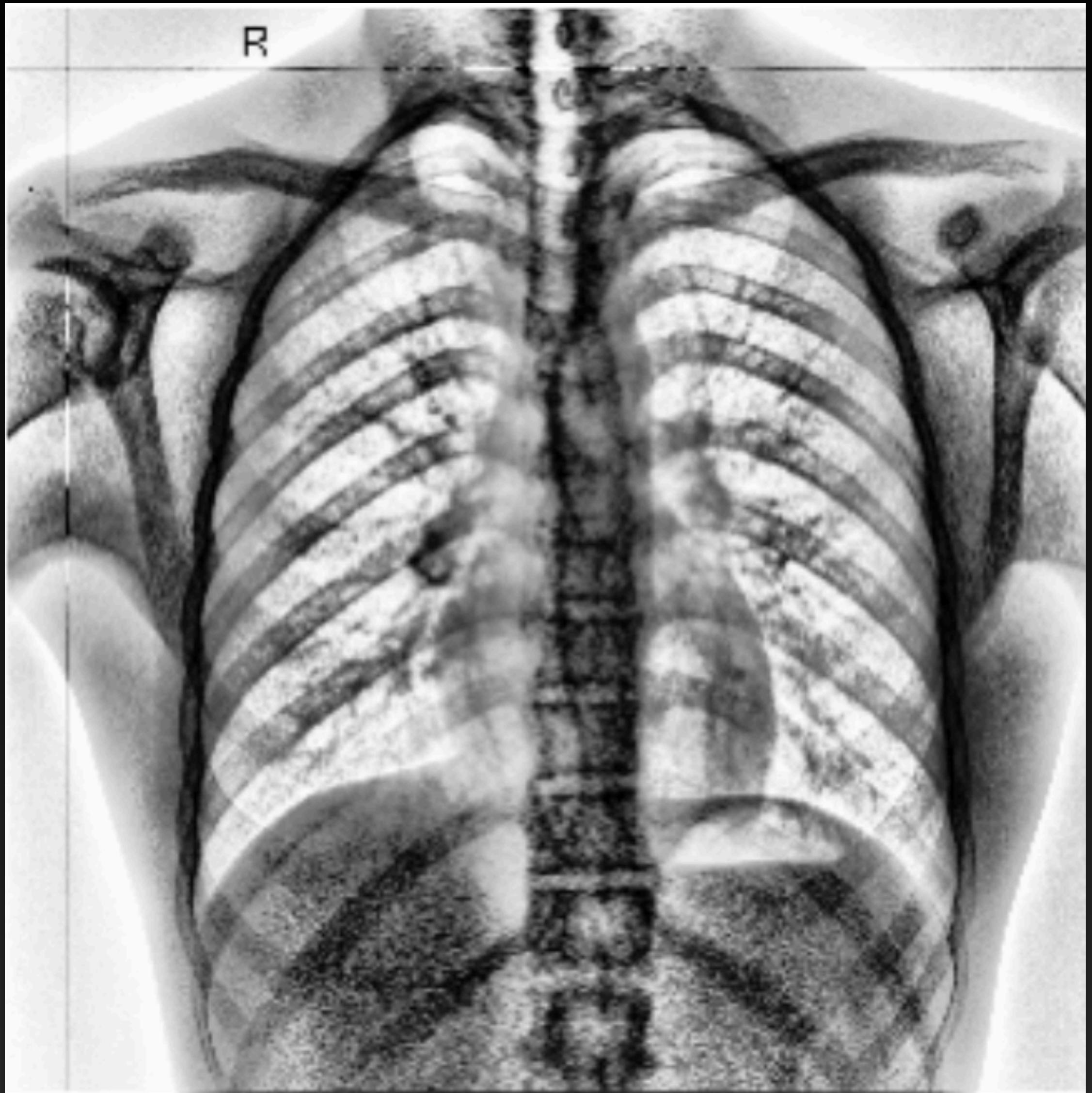
Brent Thayer



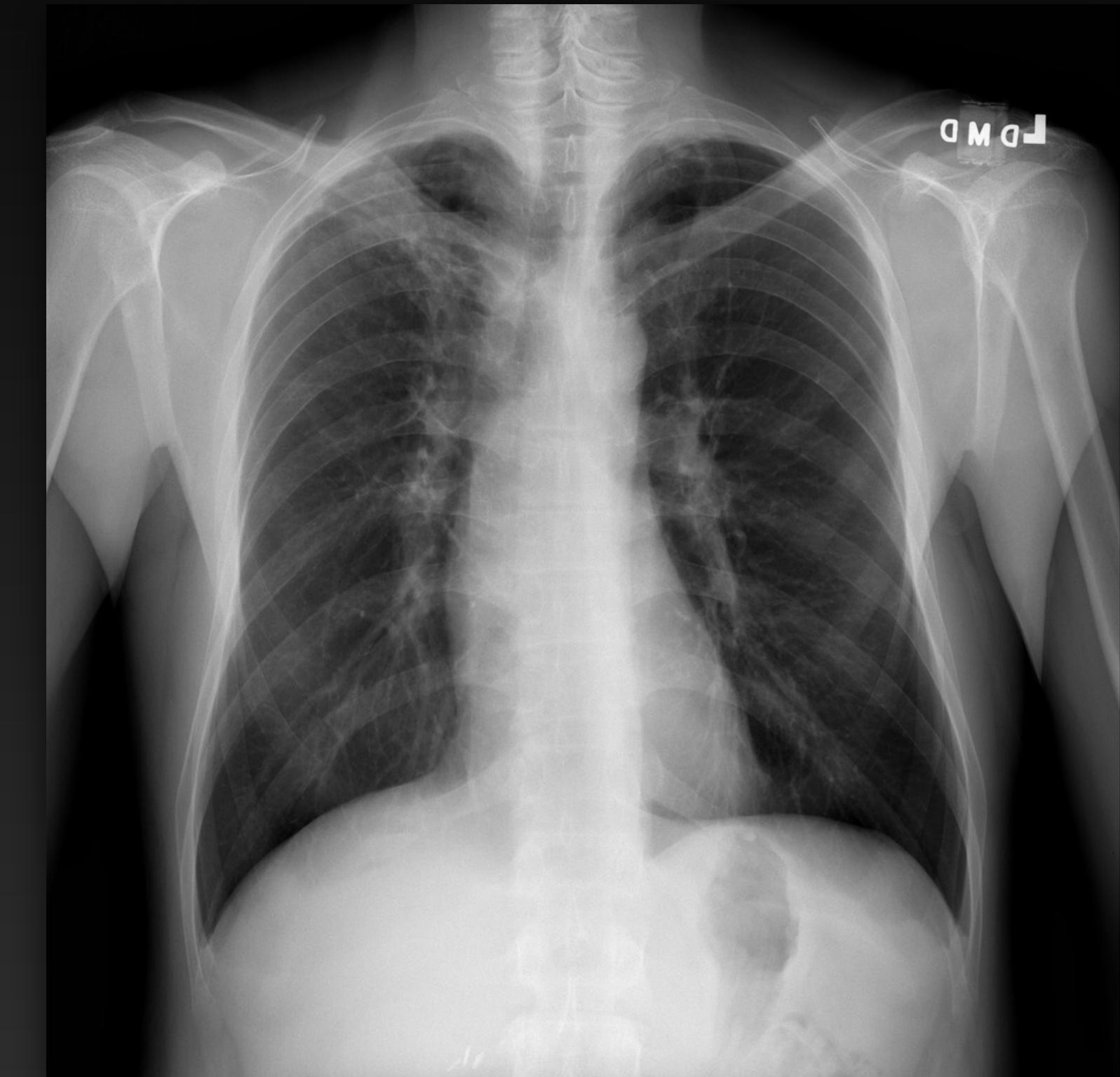
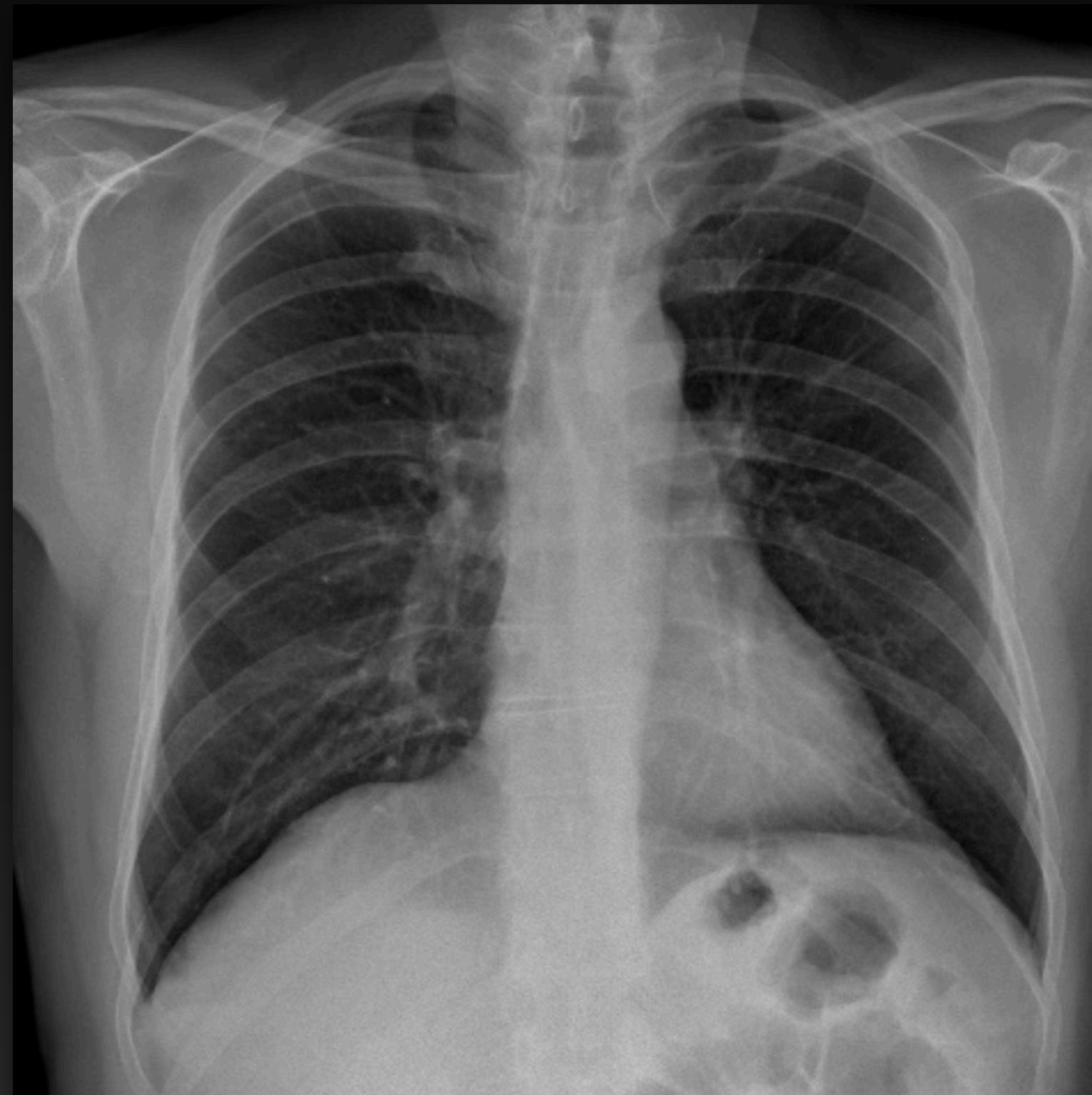
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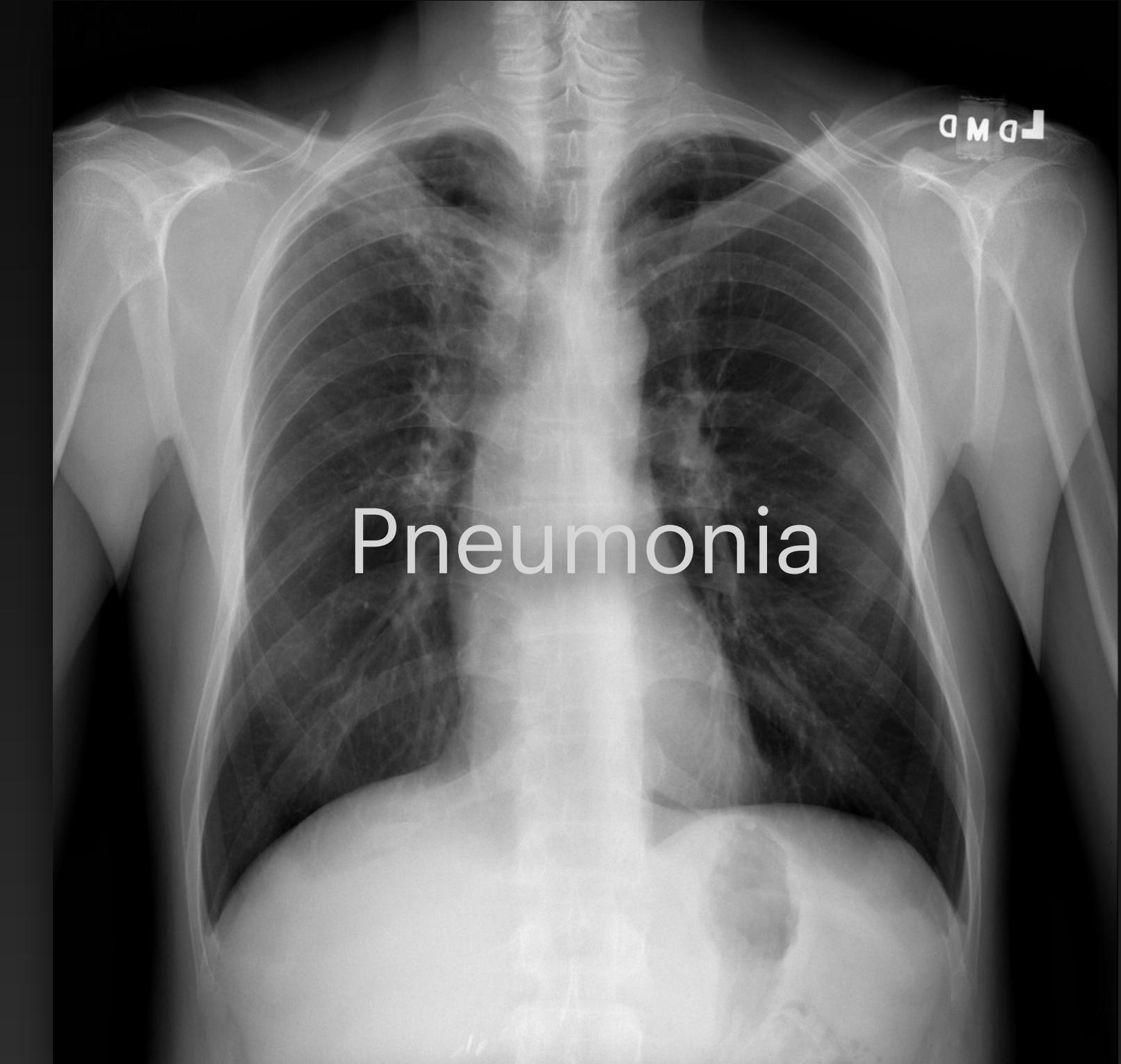
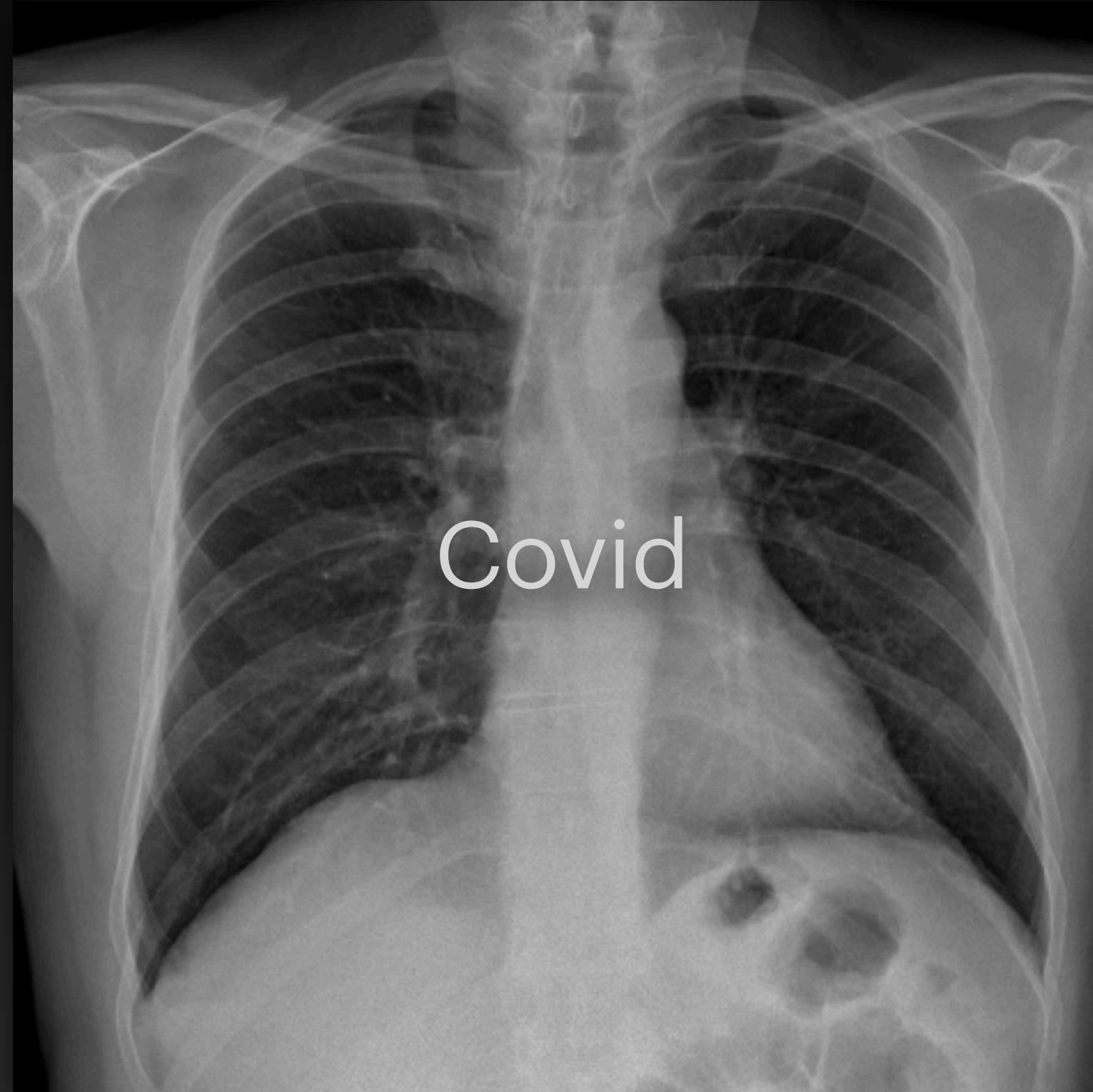
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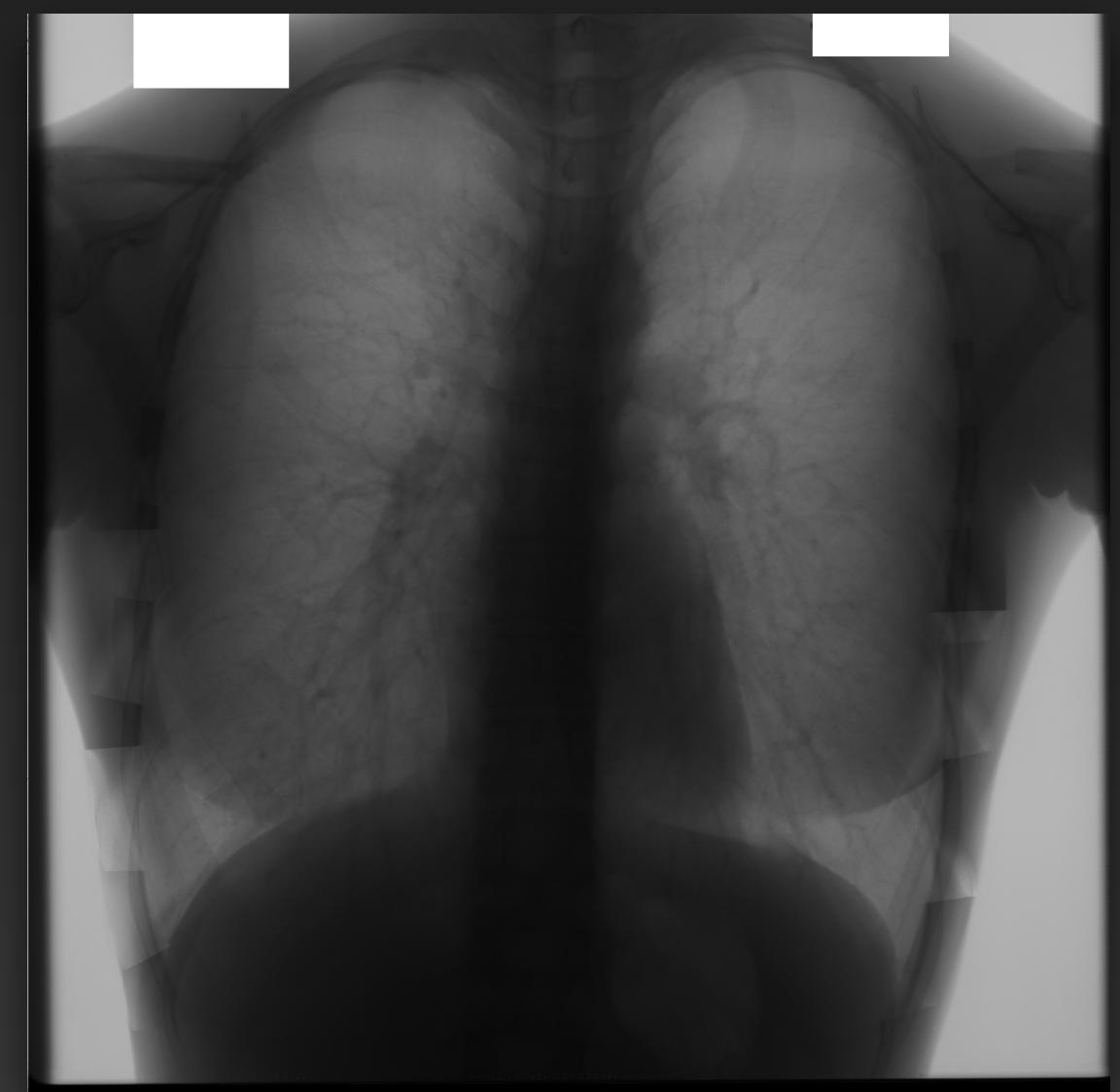
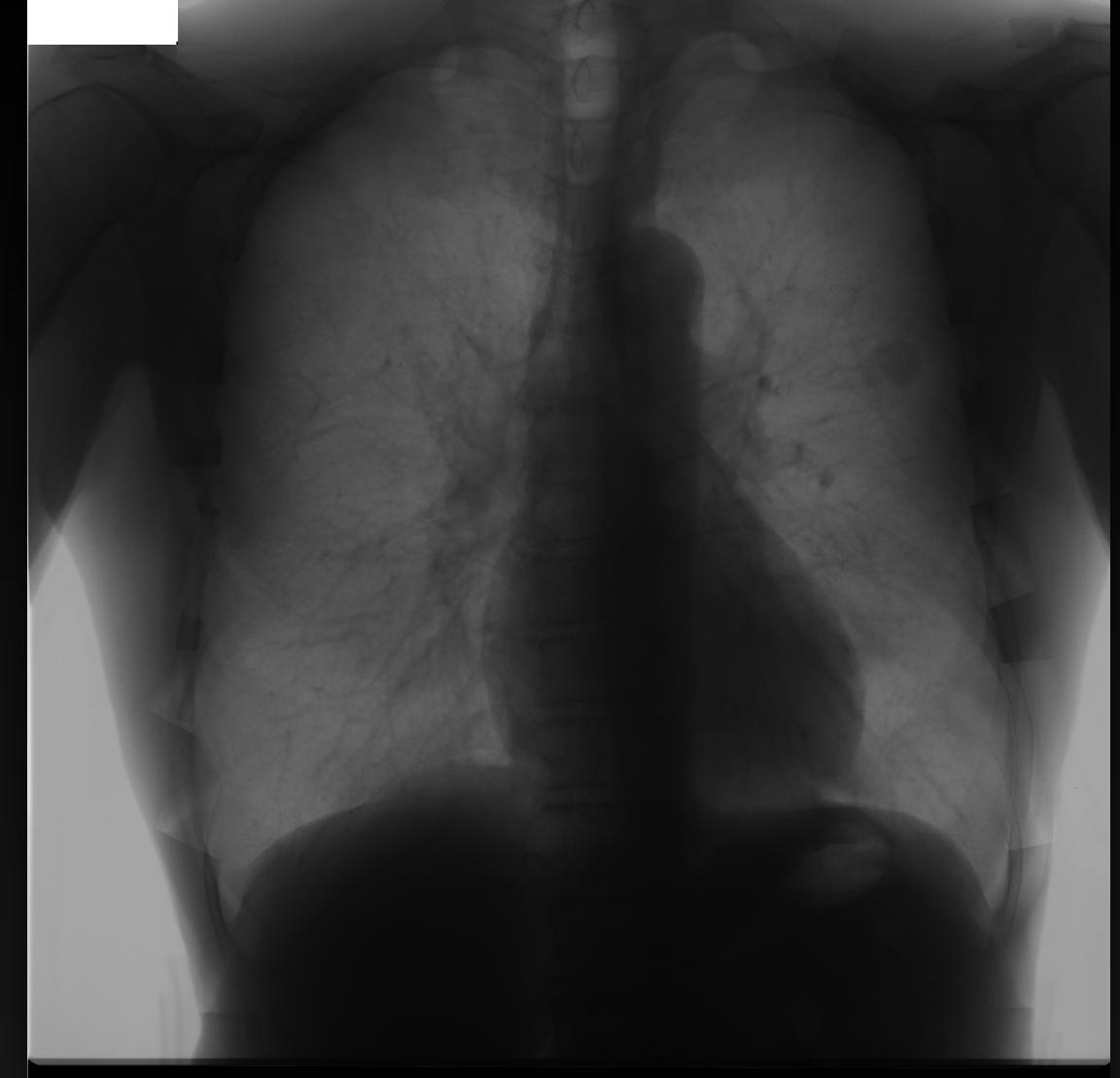
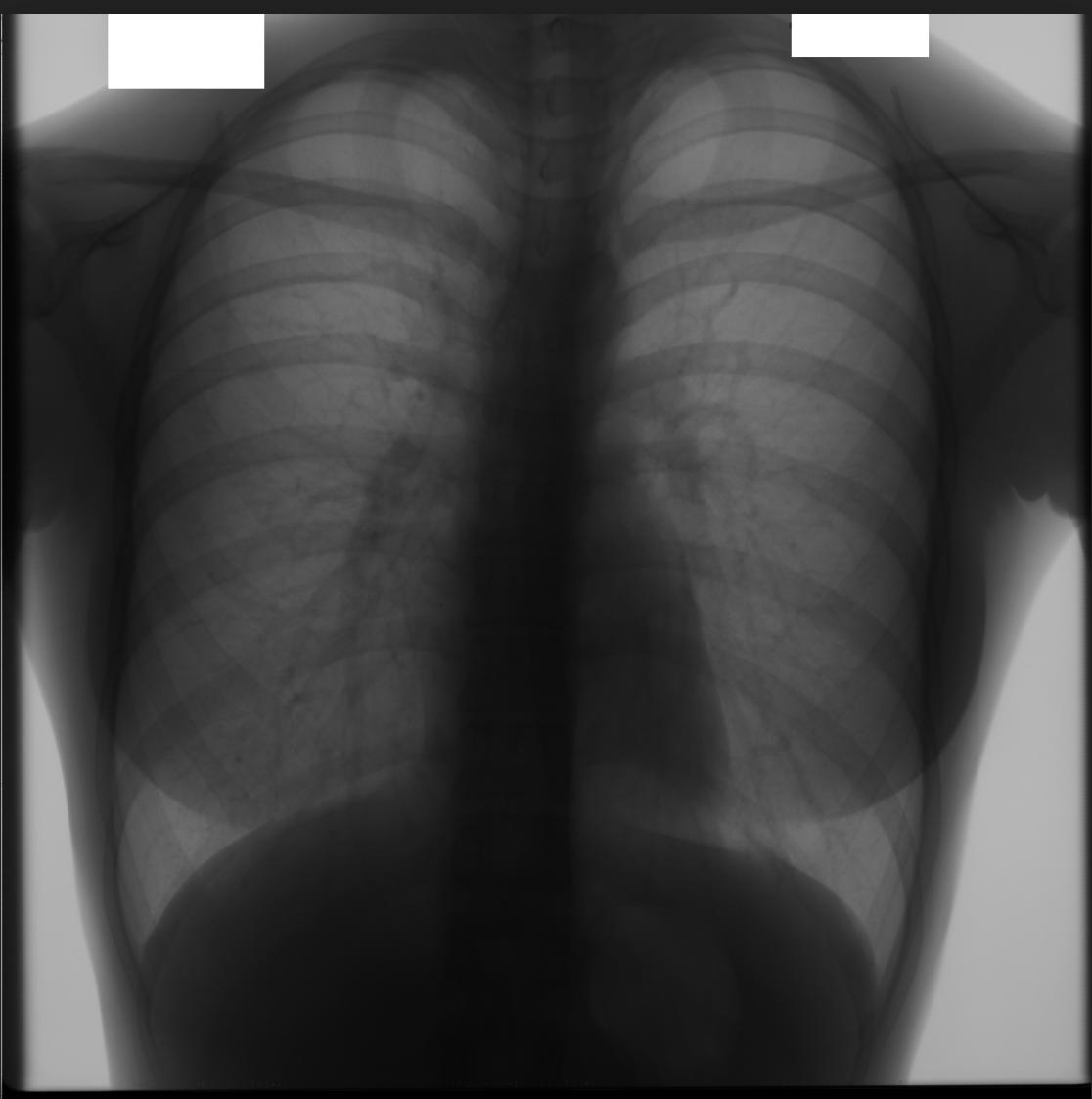
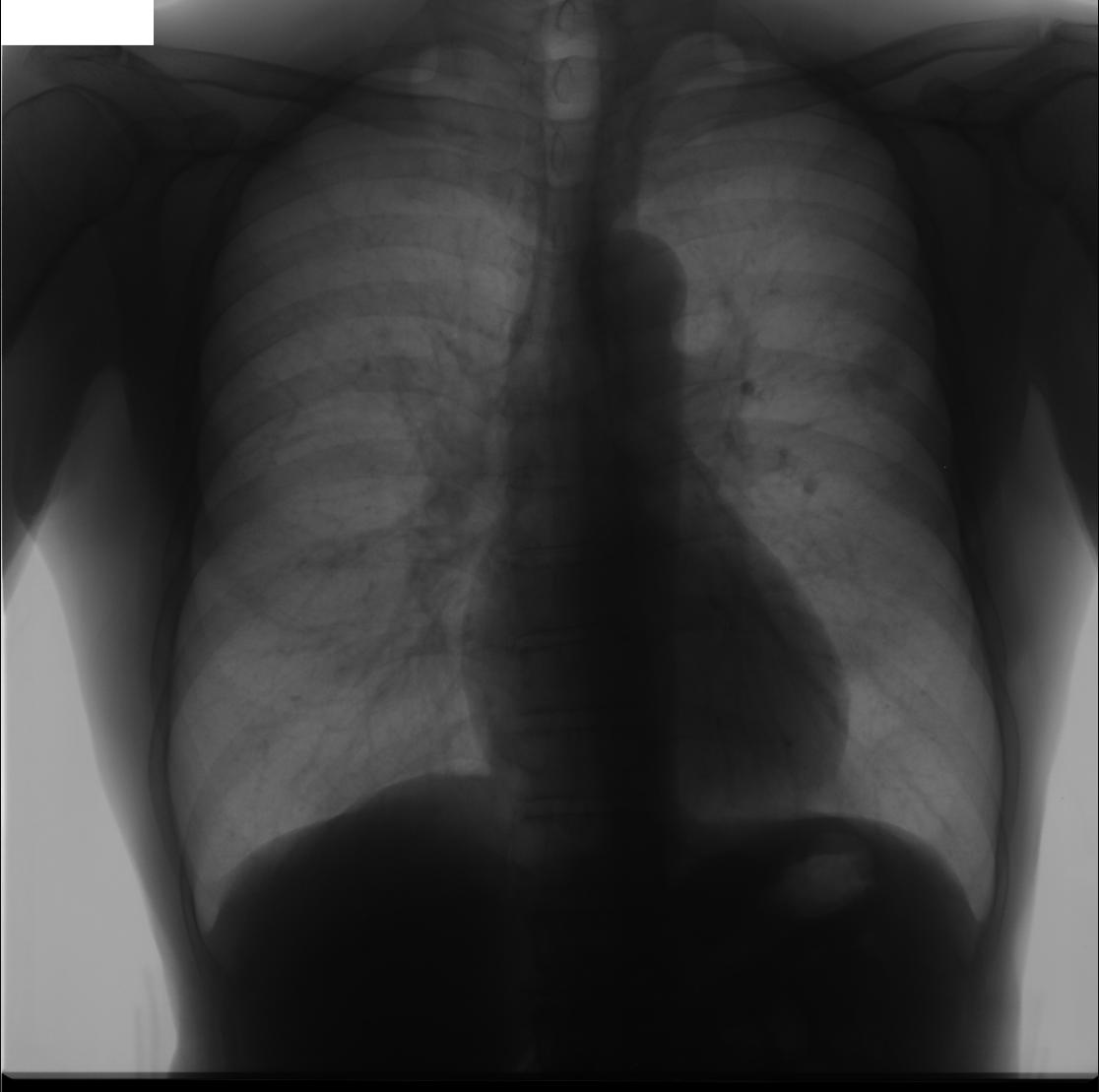
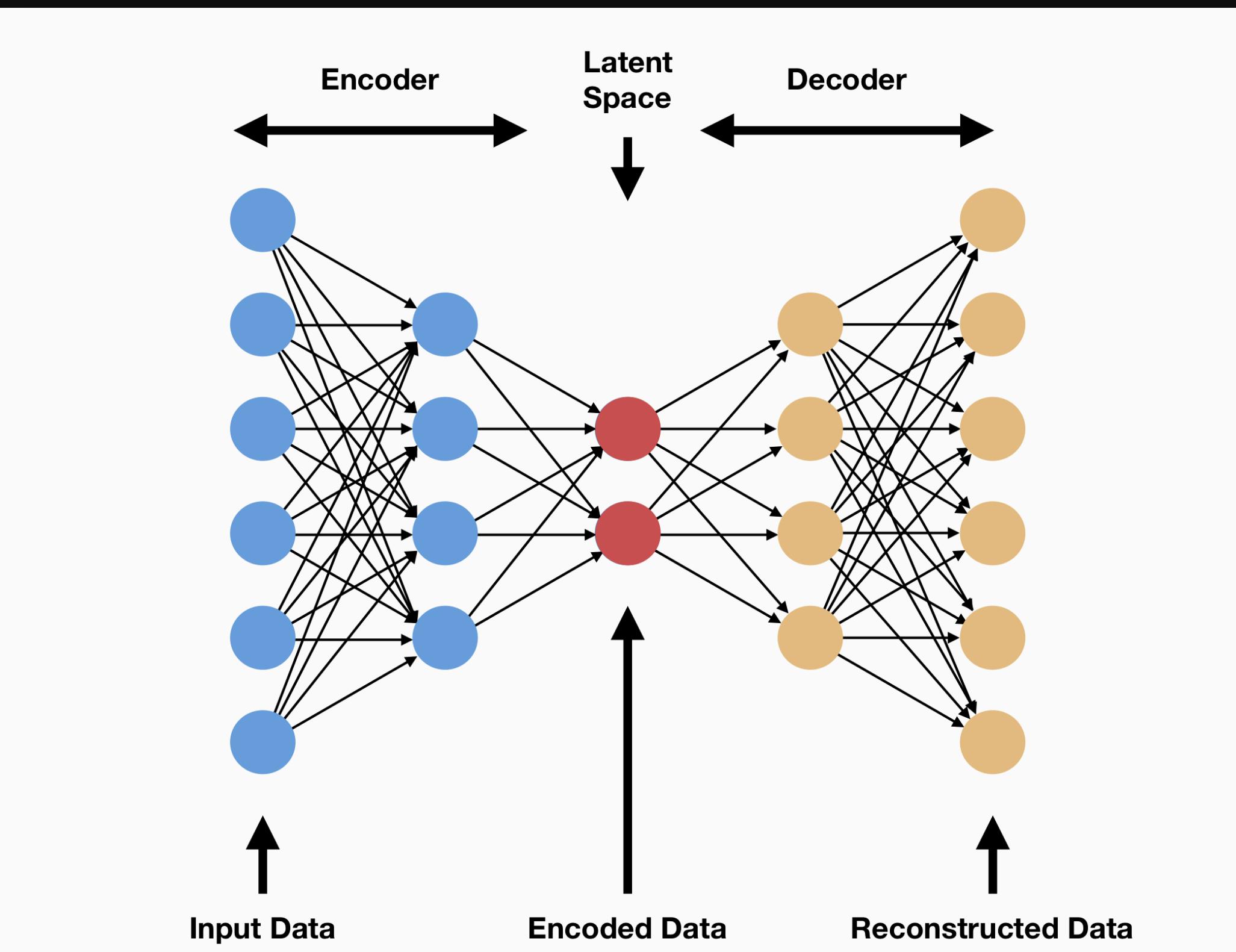
What is the difference between these three images?



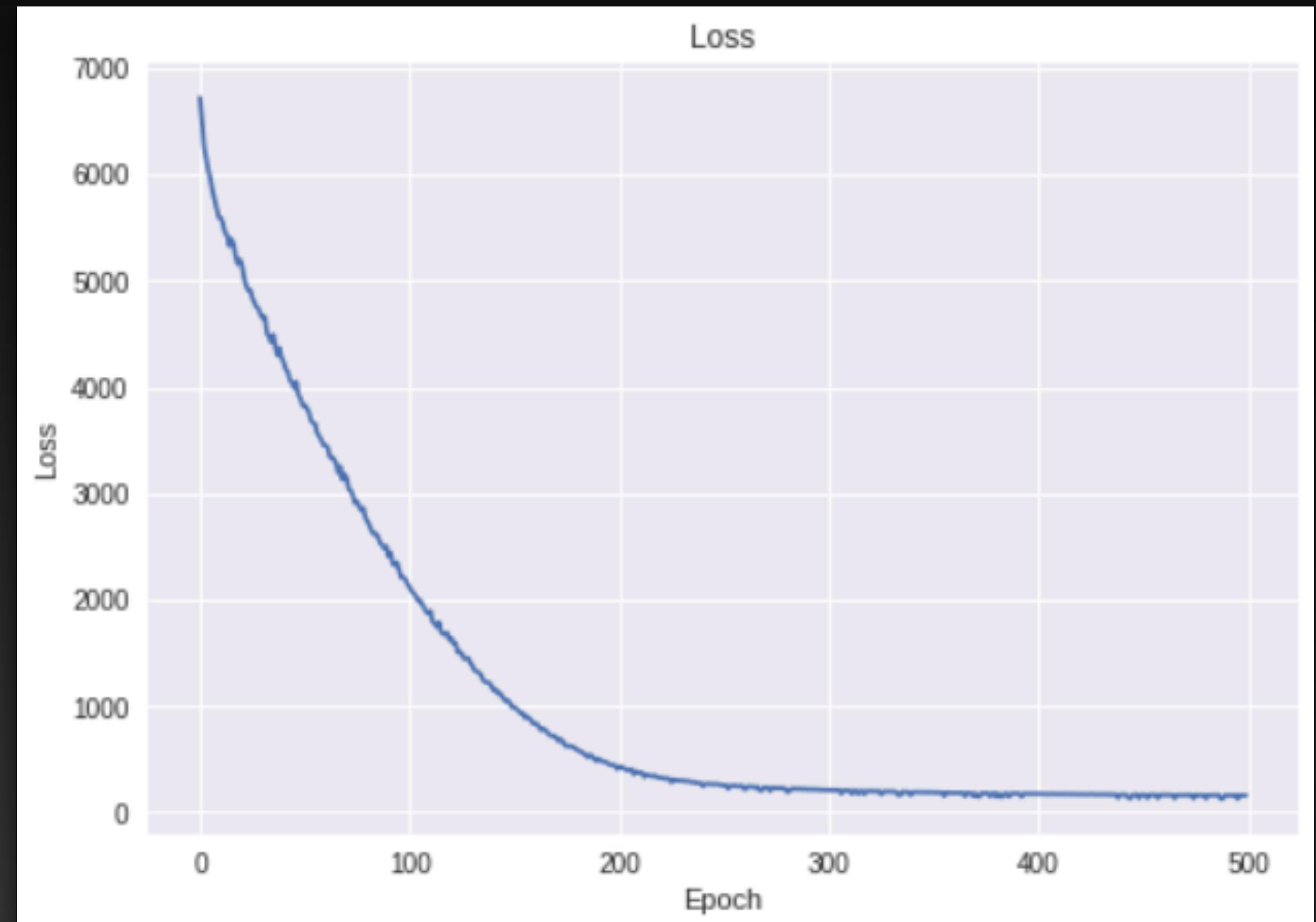
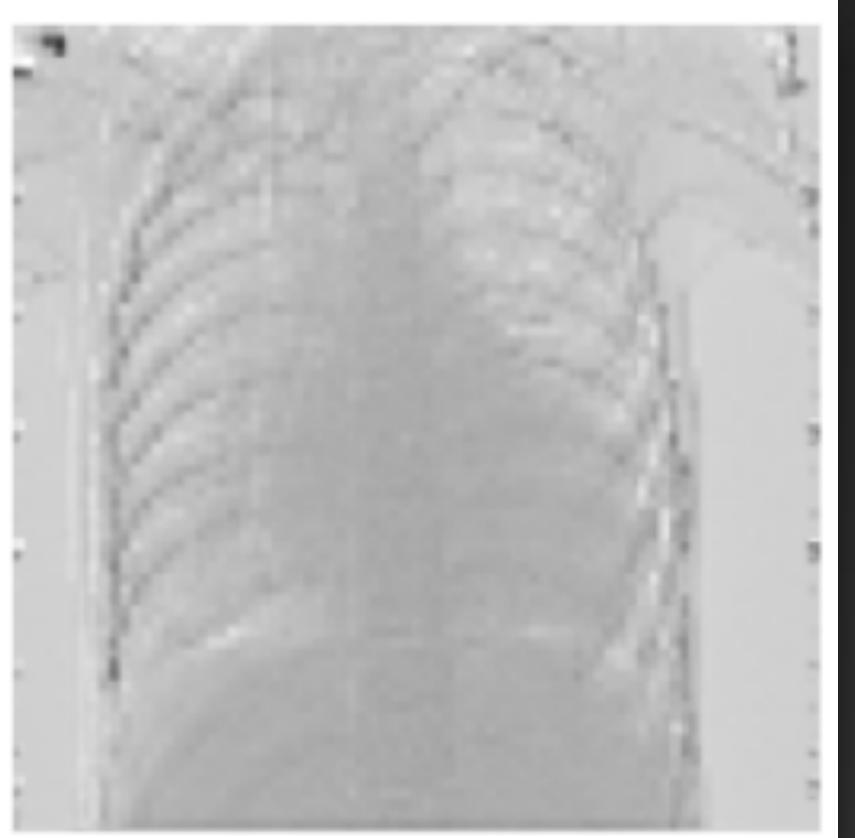
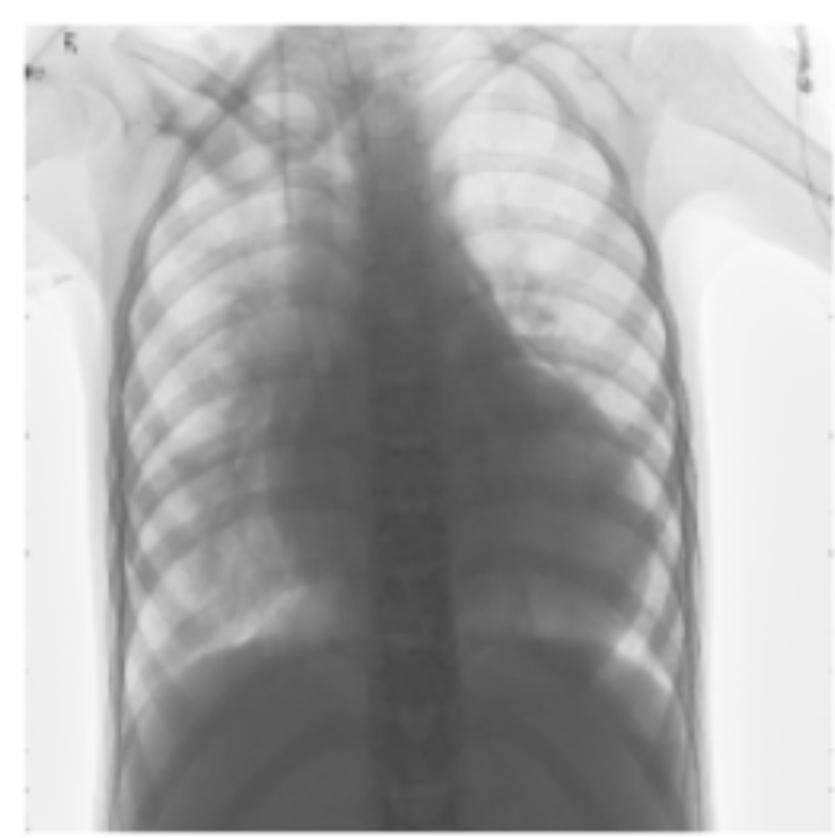
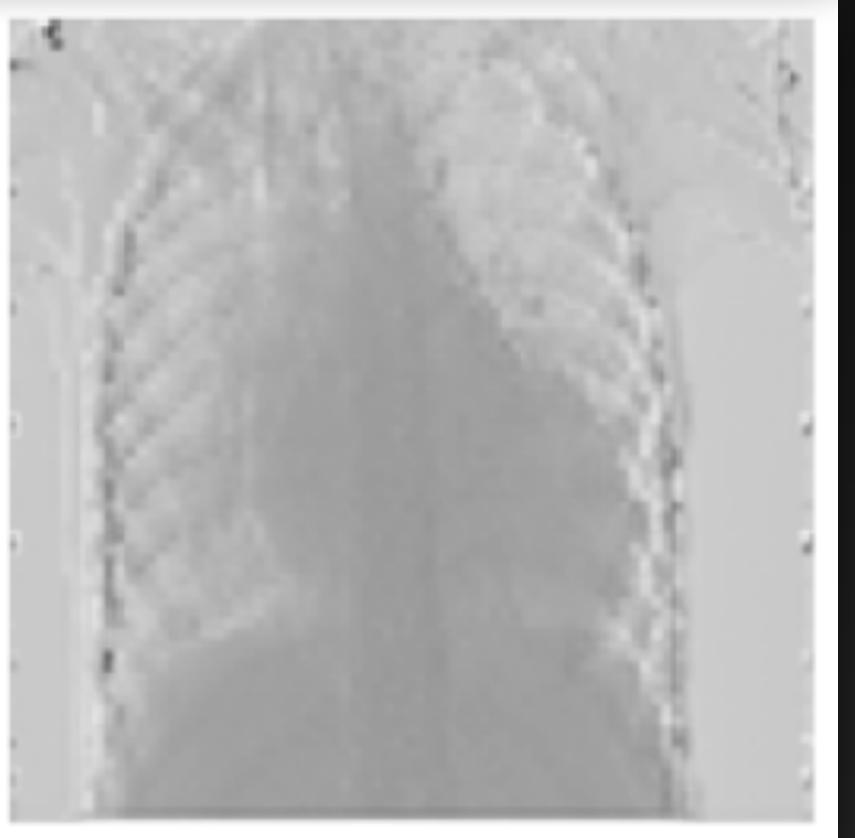
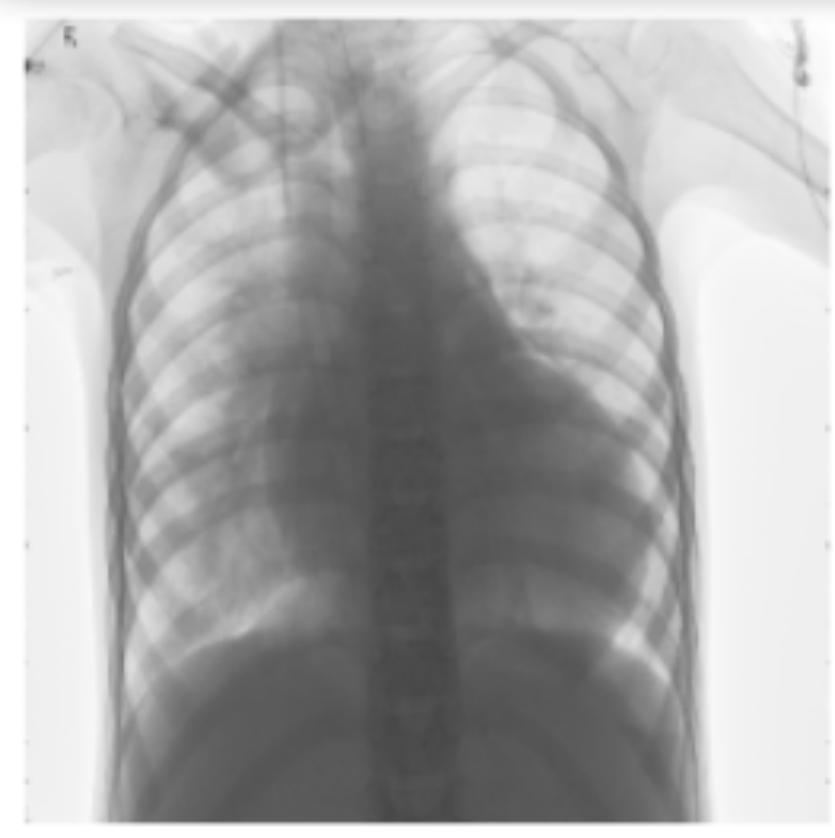
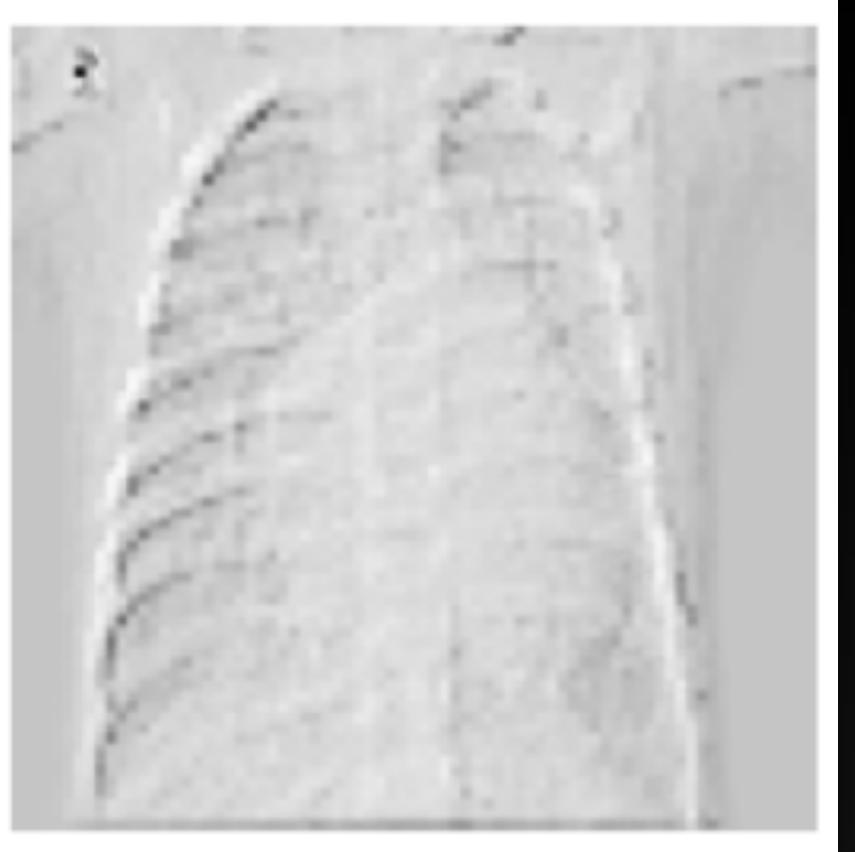
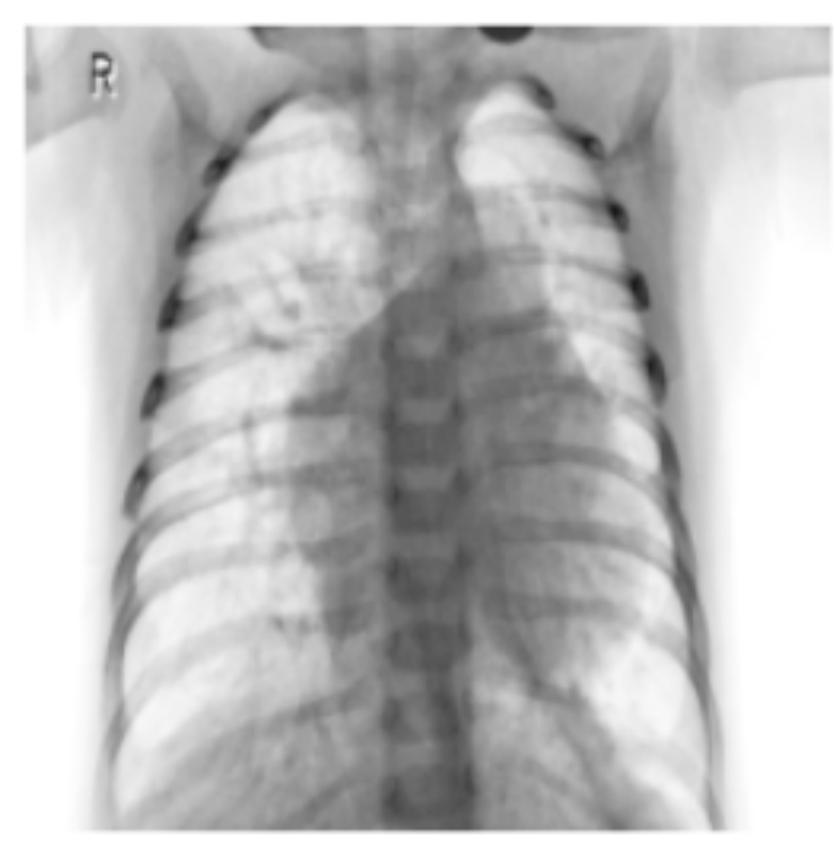
What is the difference between these three images?

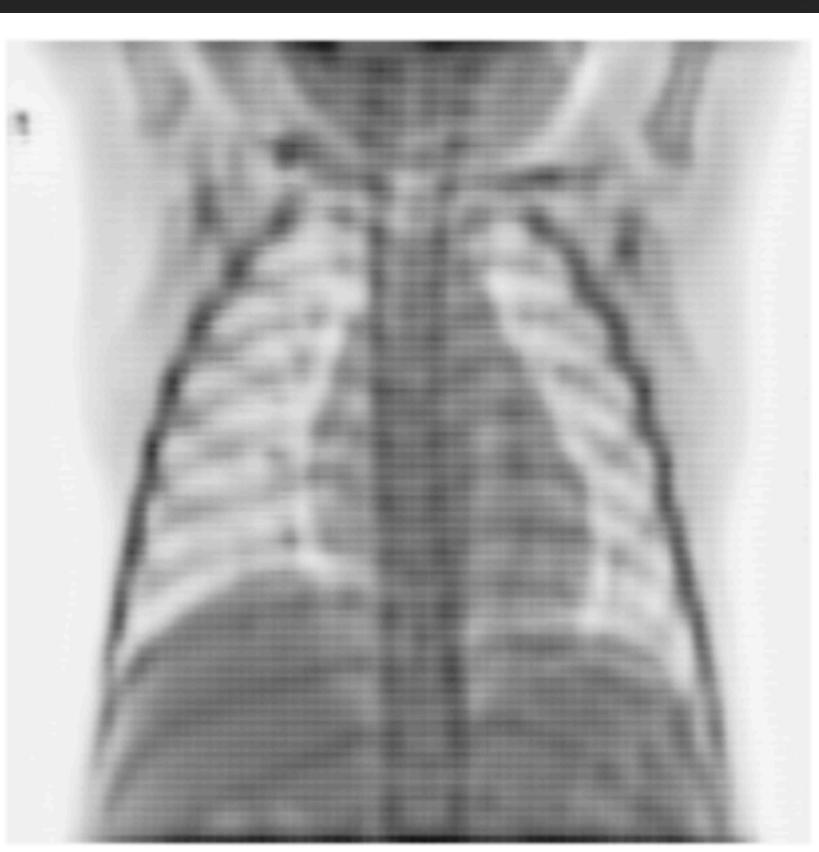
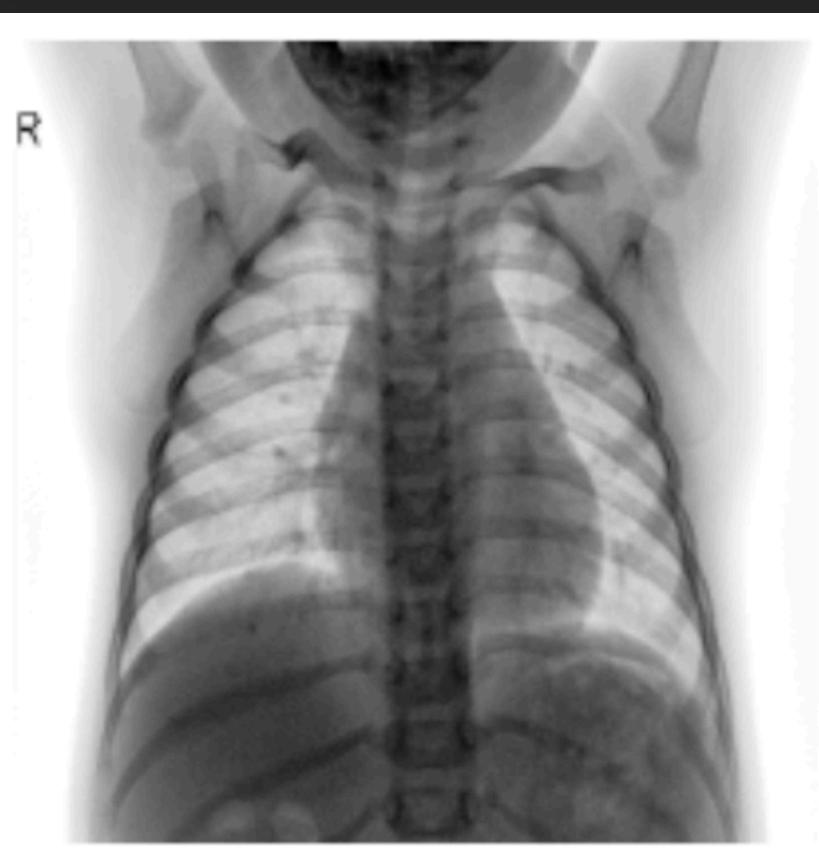
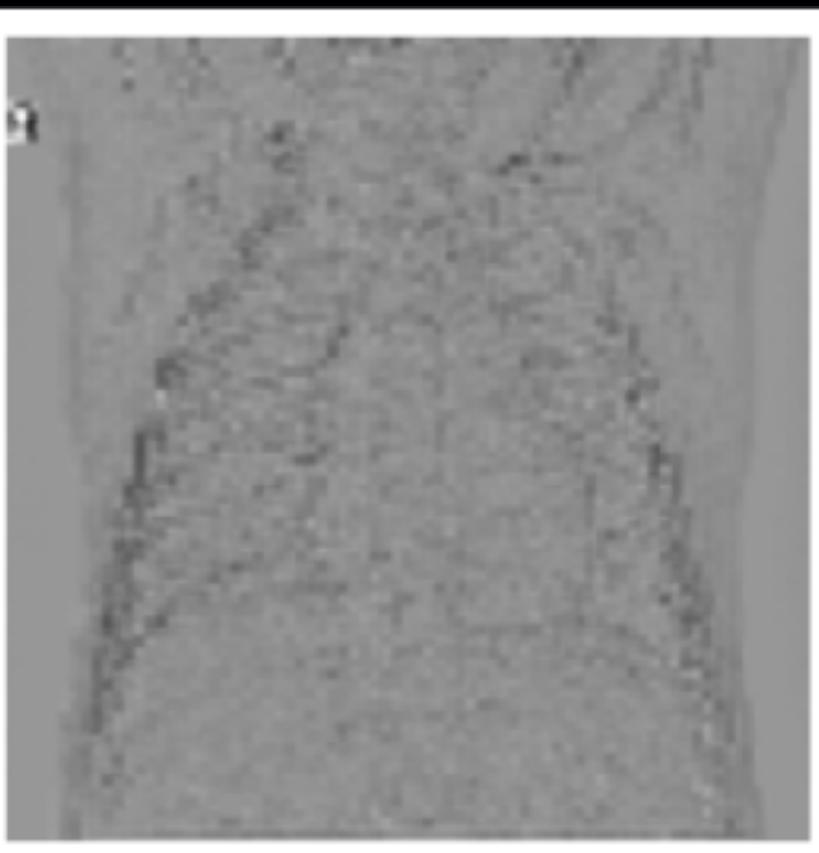
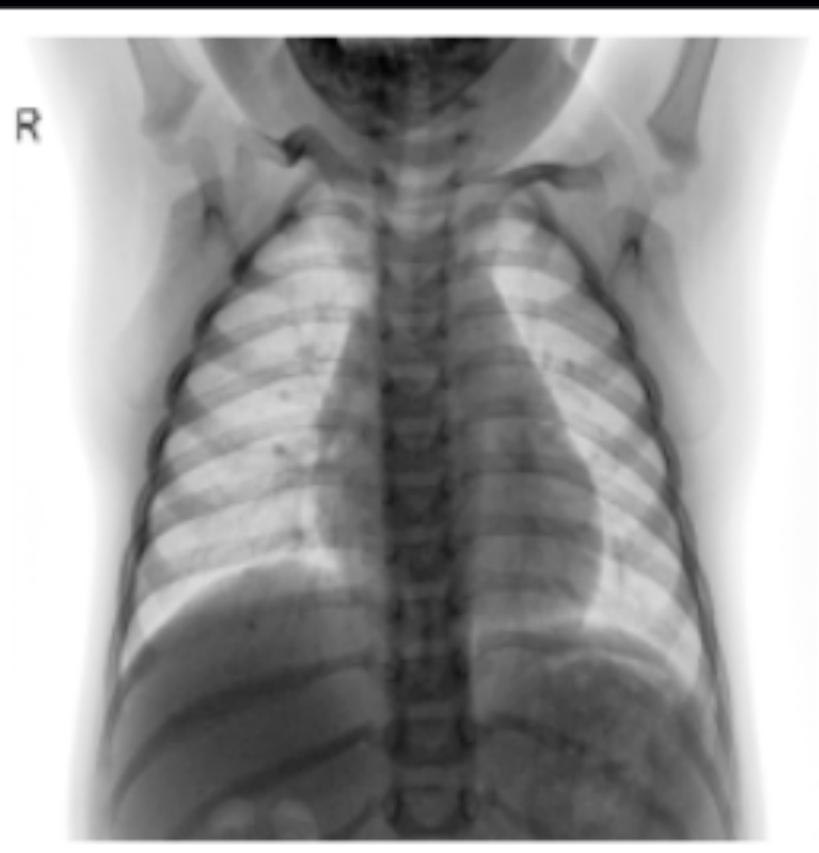
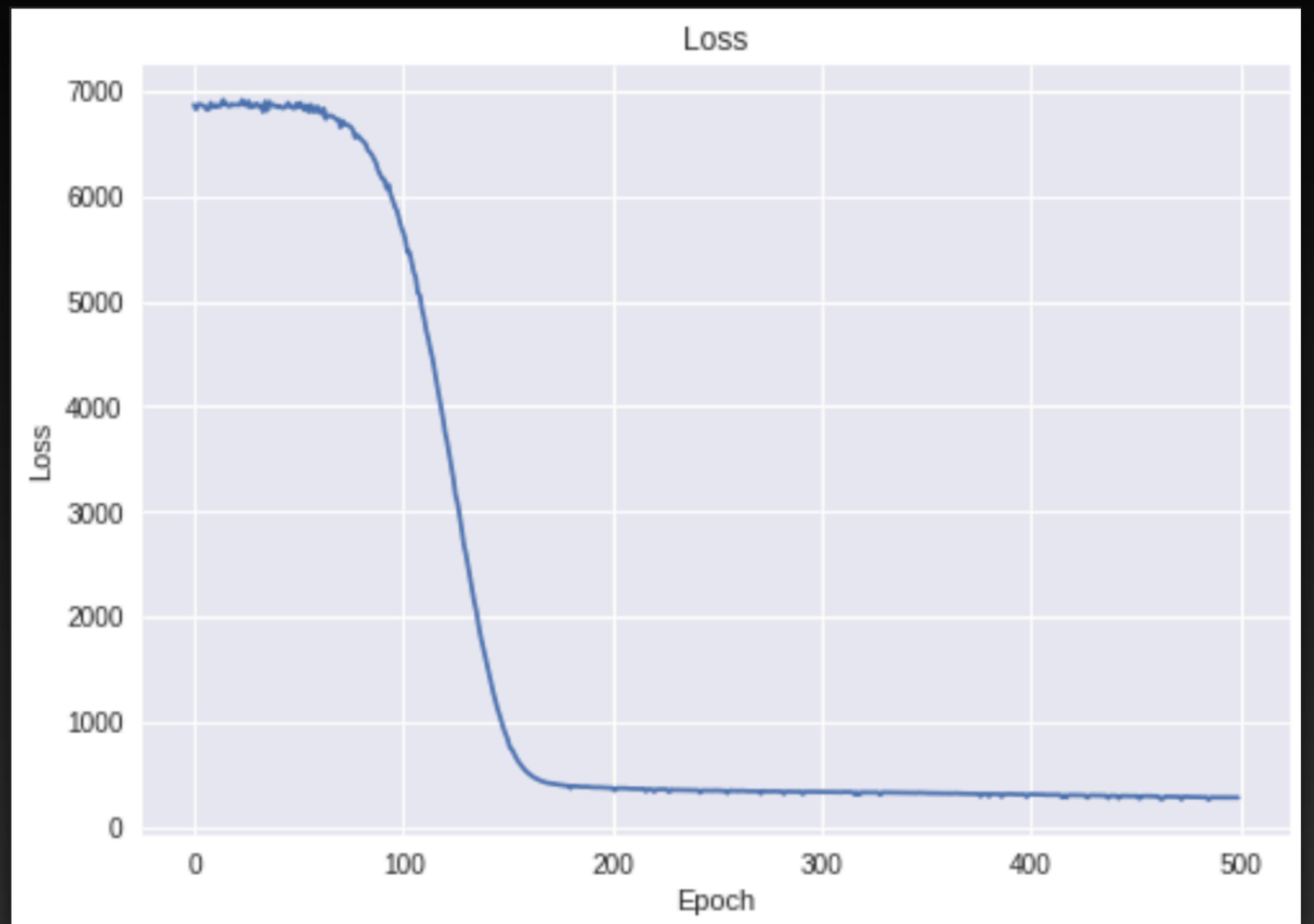


Autoencoder

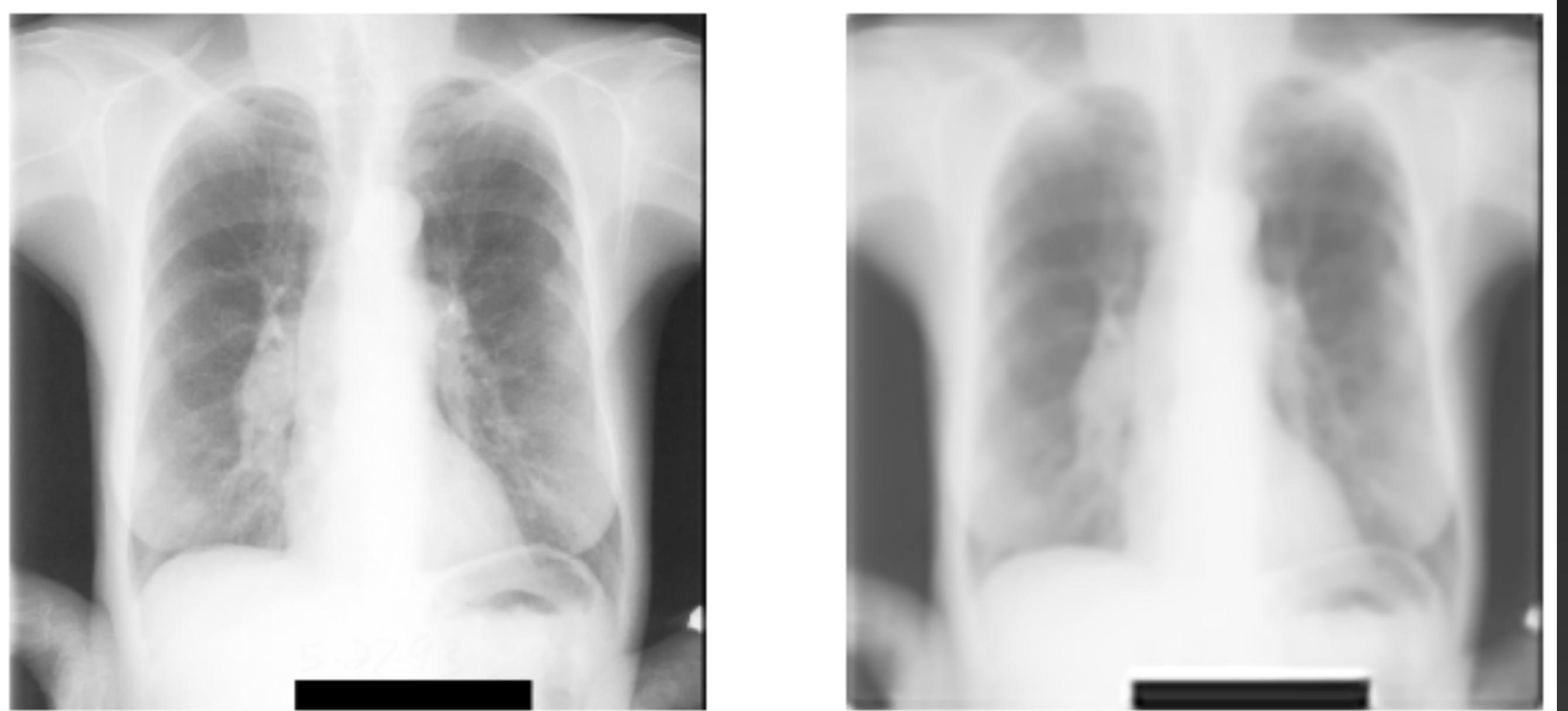
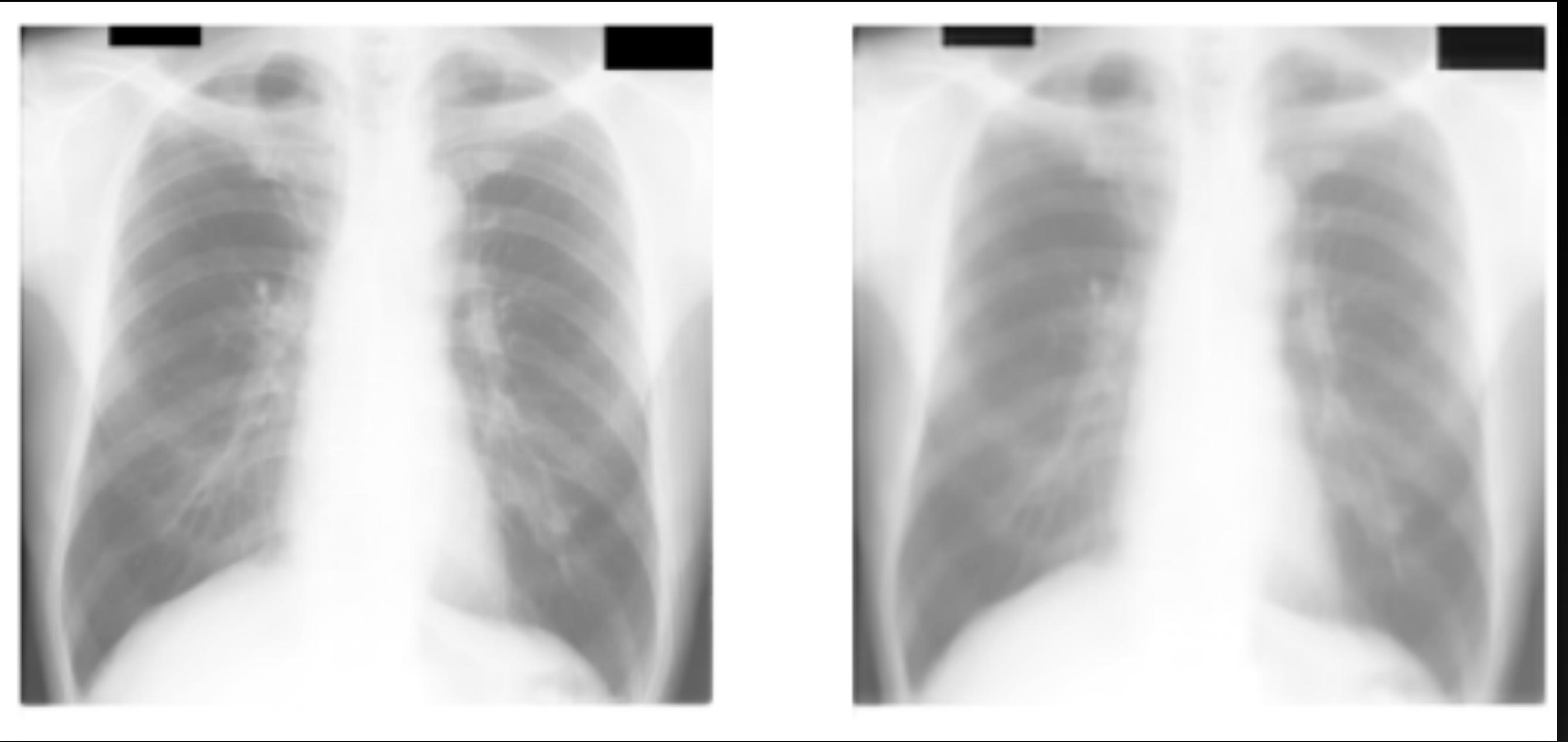


Mean Squared Error



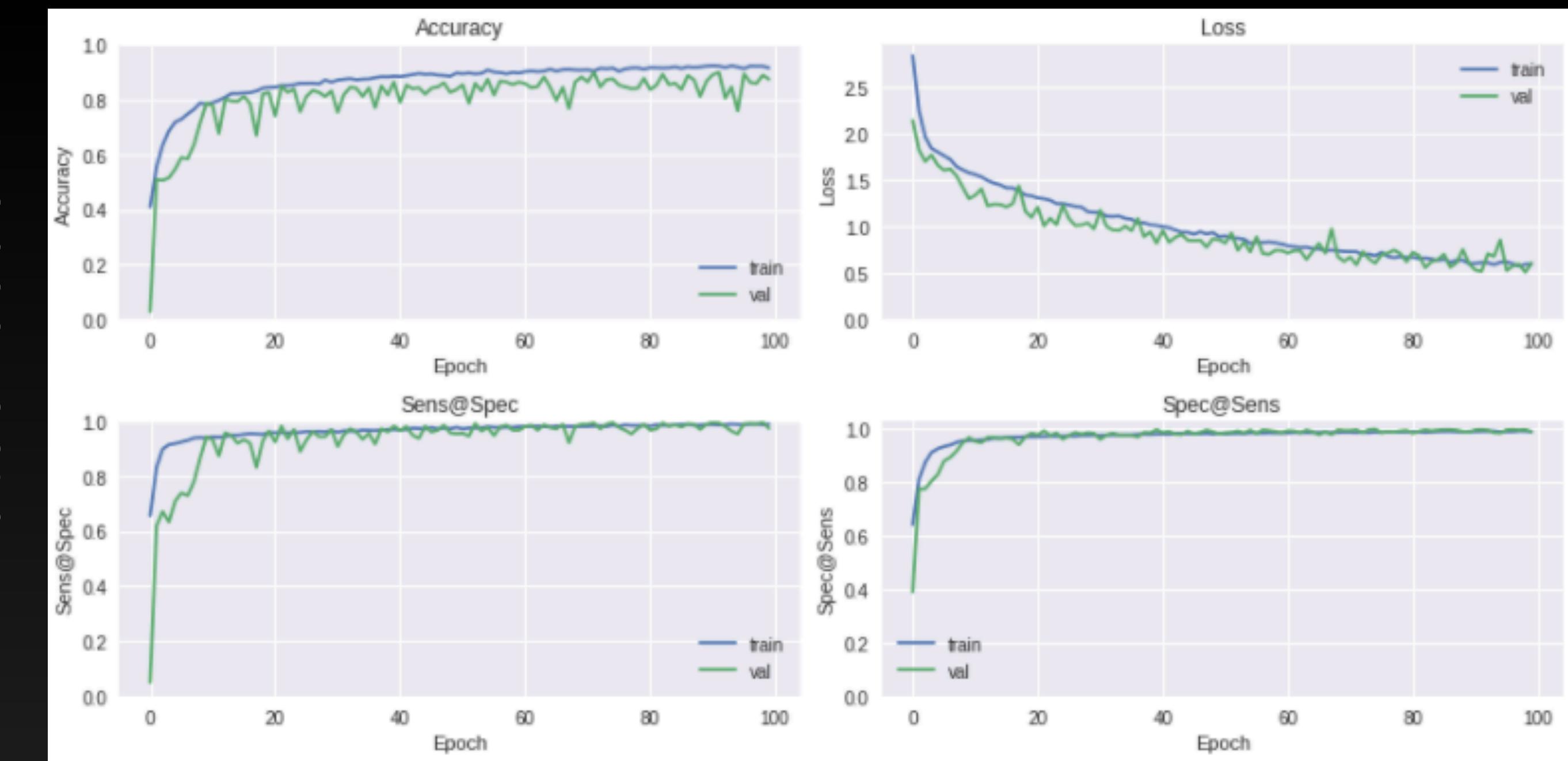


Final Autoencoder Results

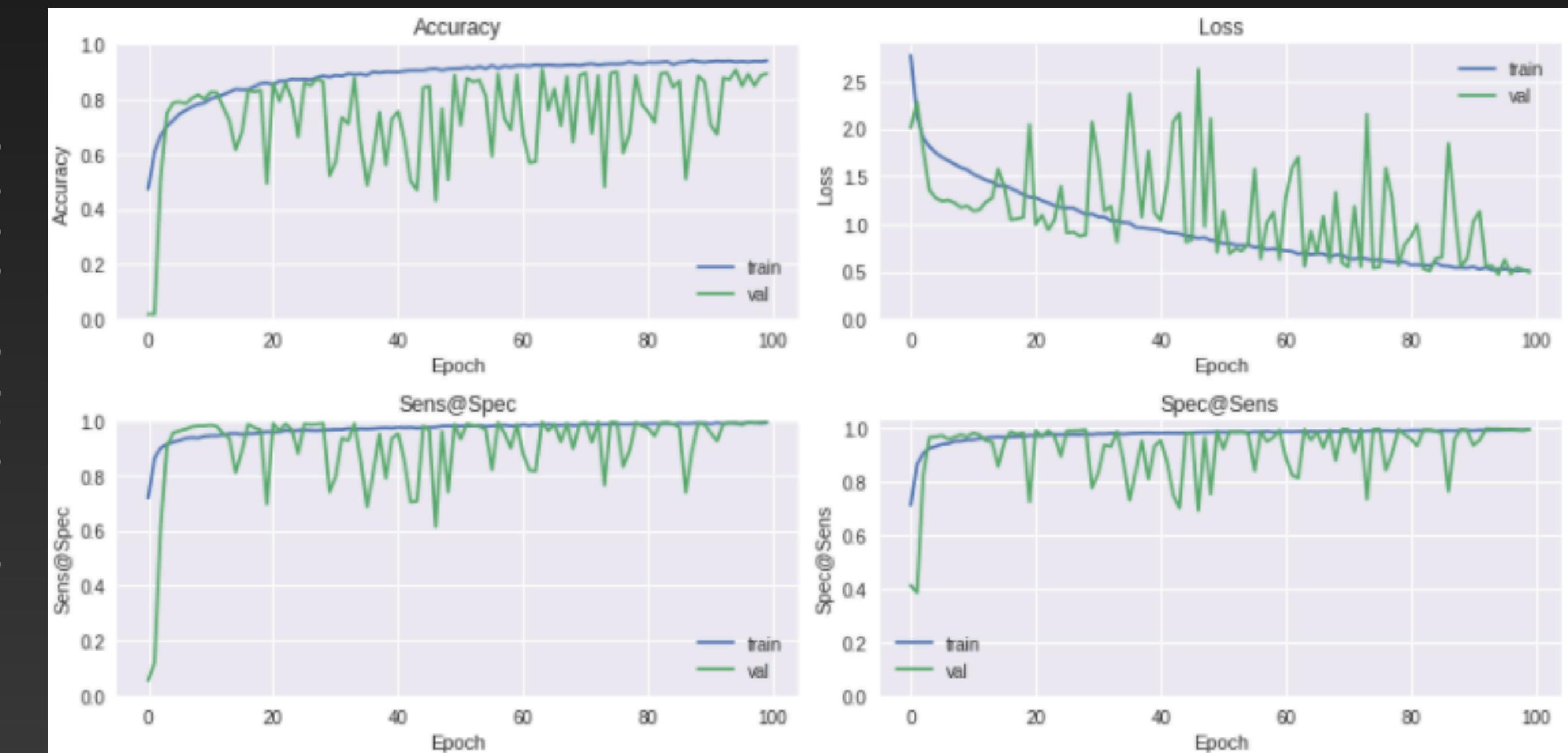


A/B Test

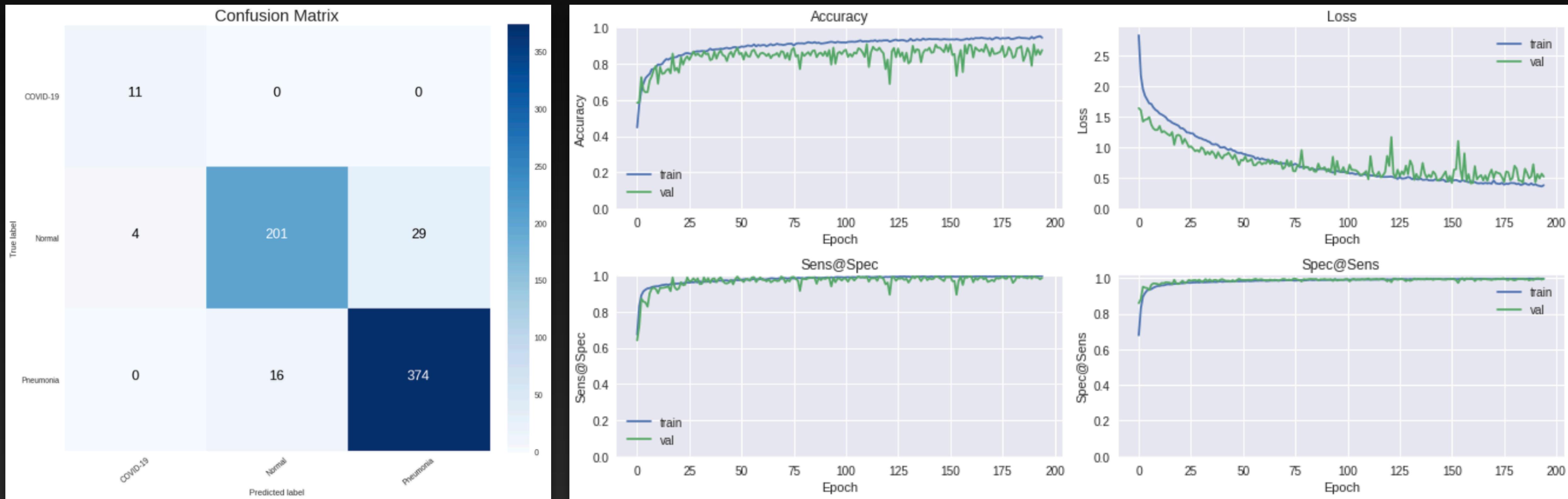
No Autoencoder



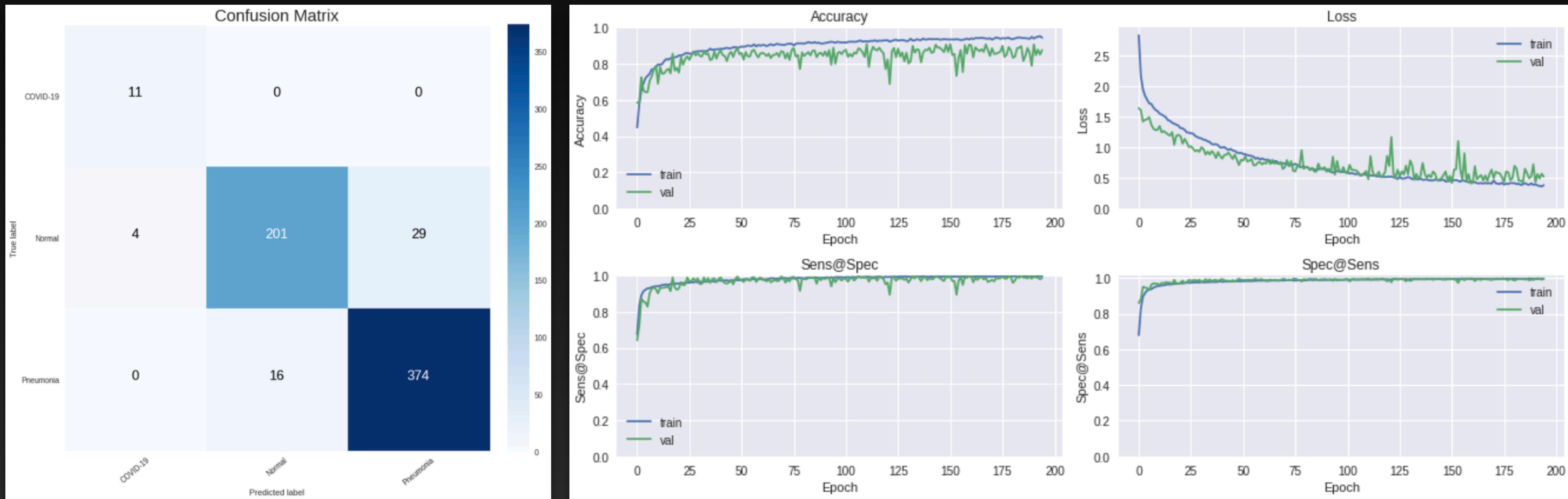
Autoencoder



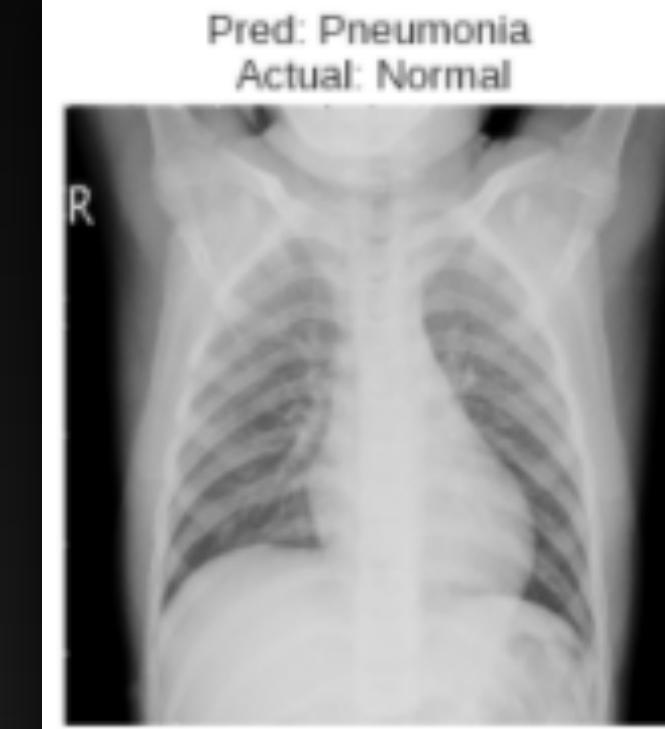
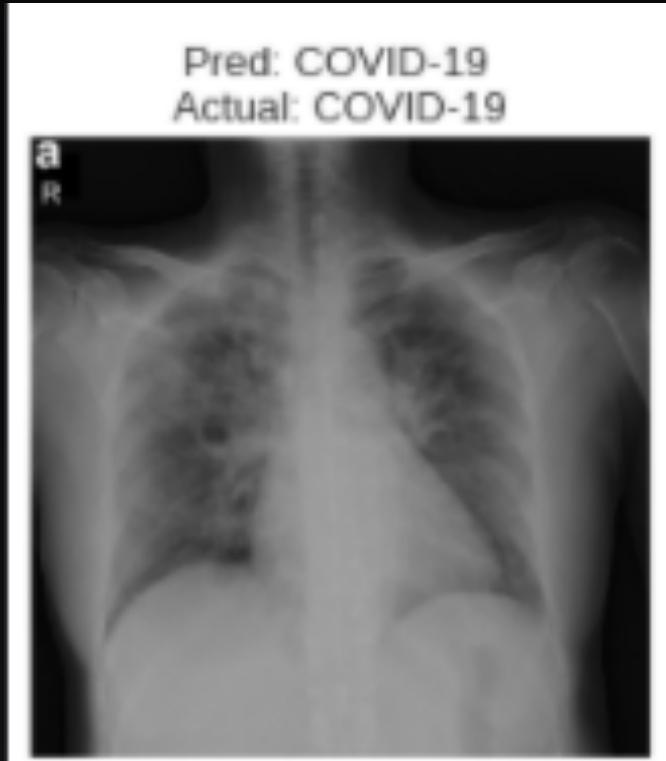
Final Model



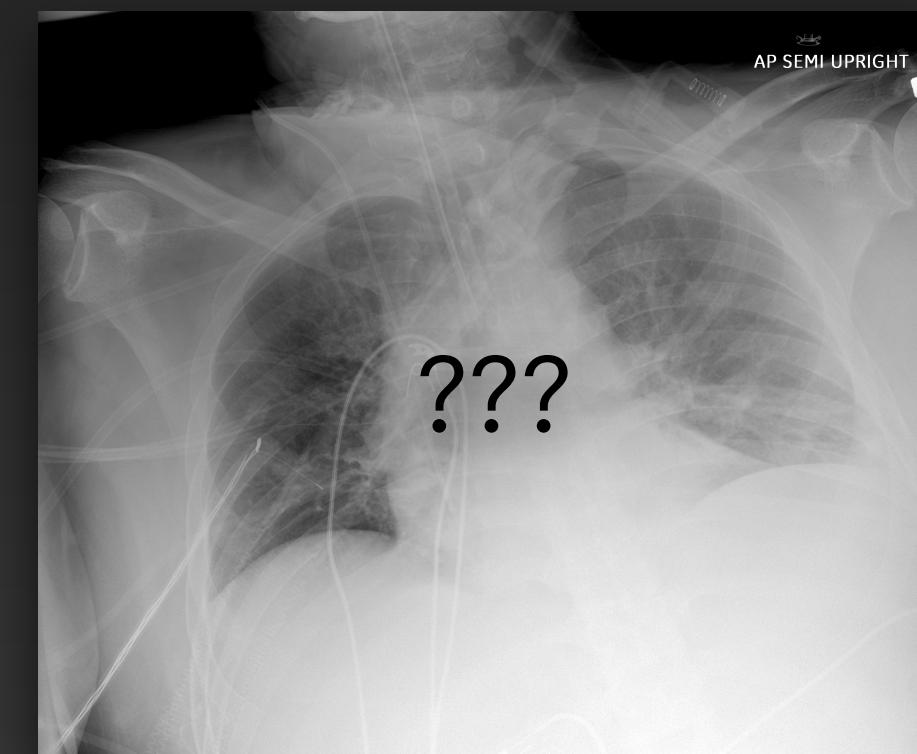
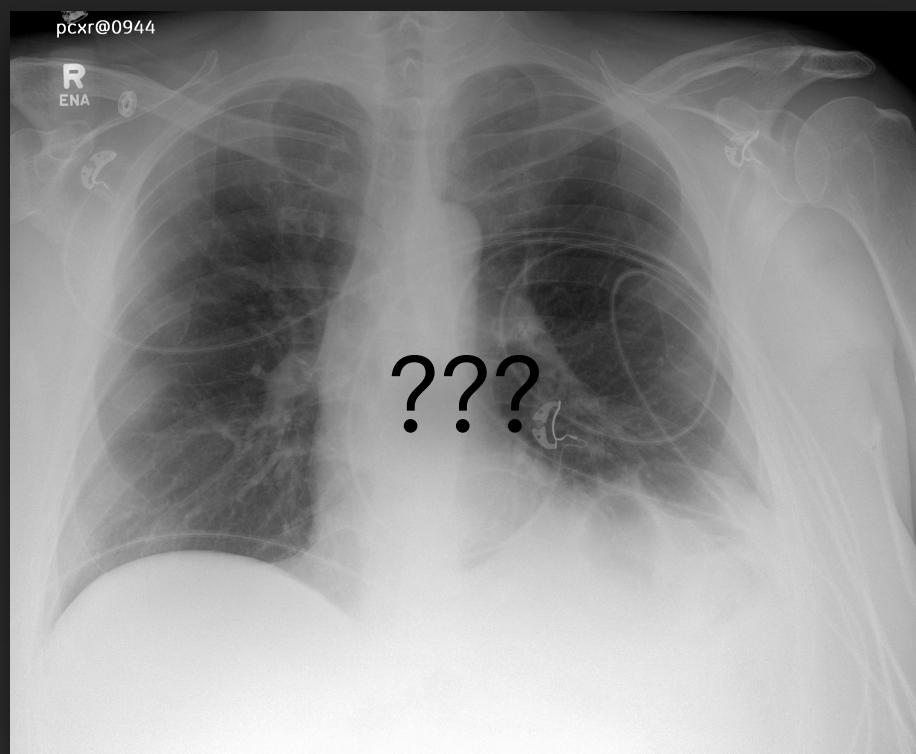
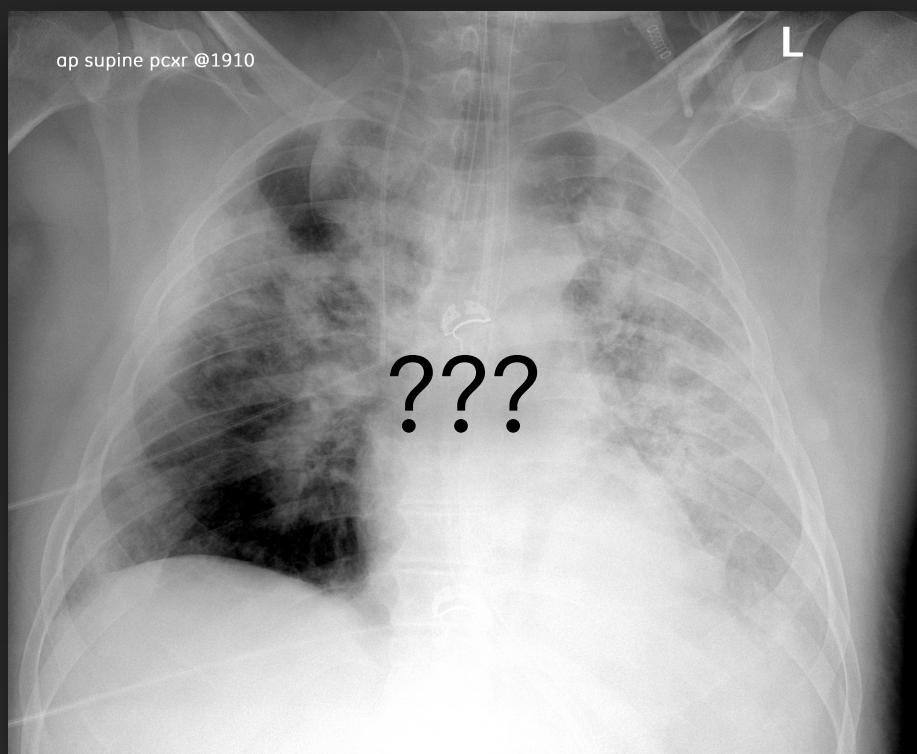
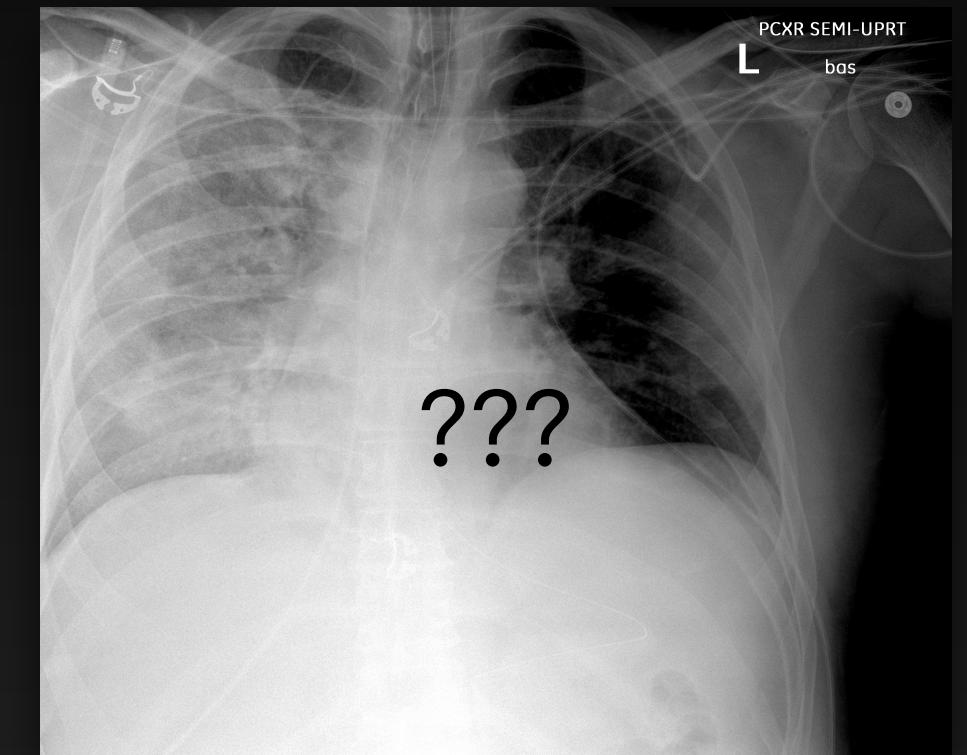
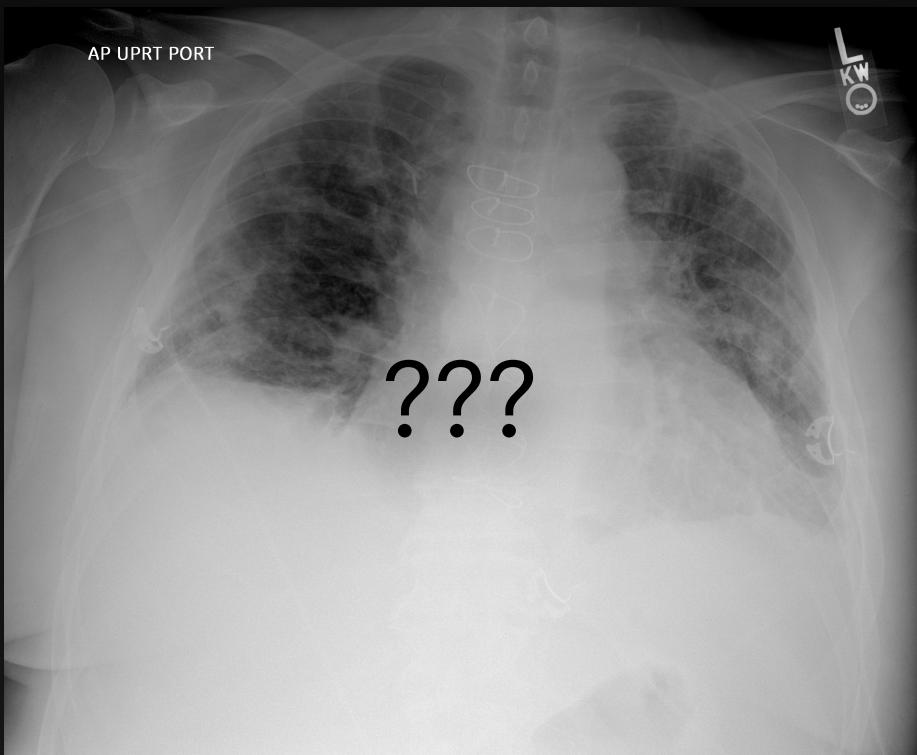
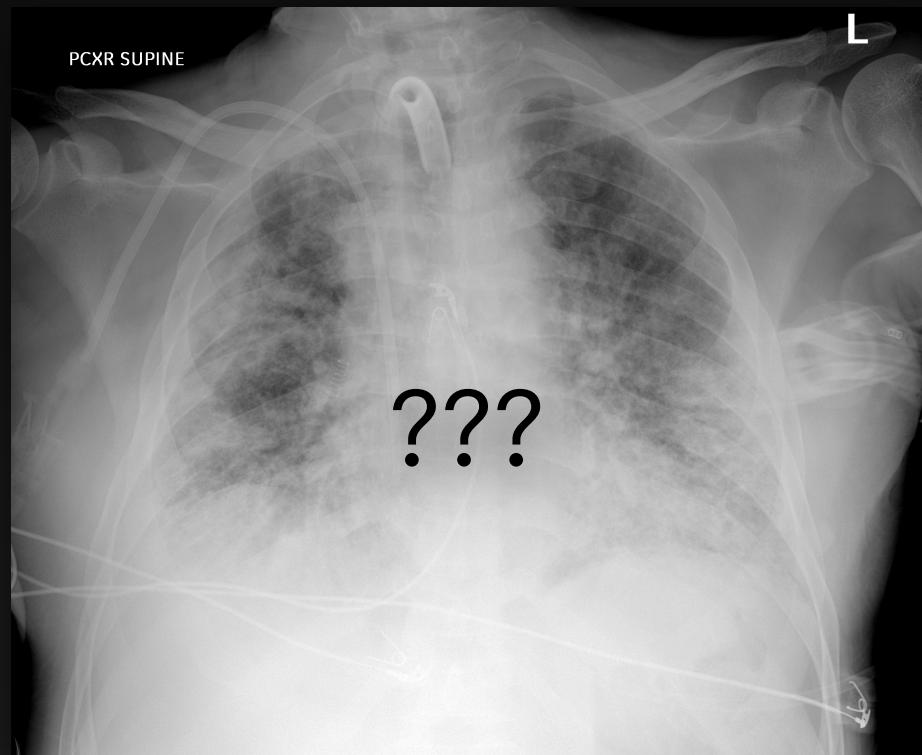
Final Model



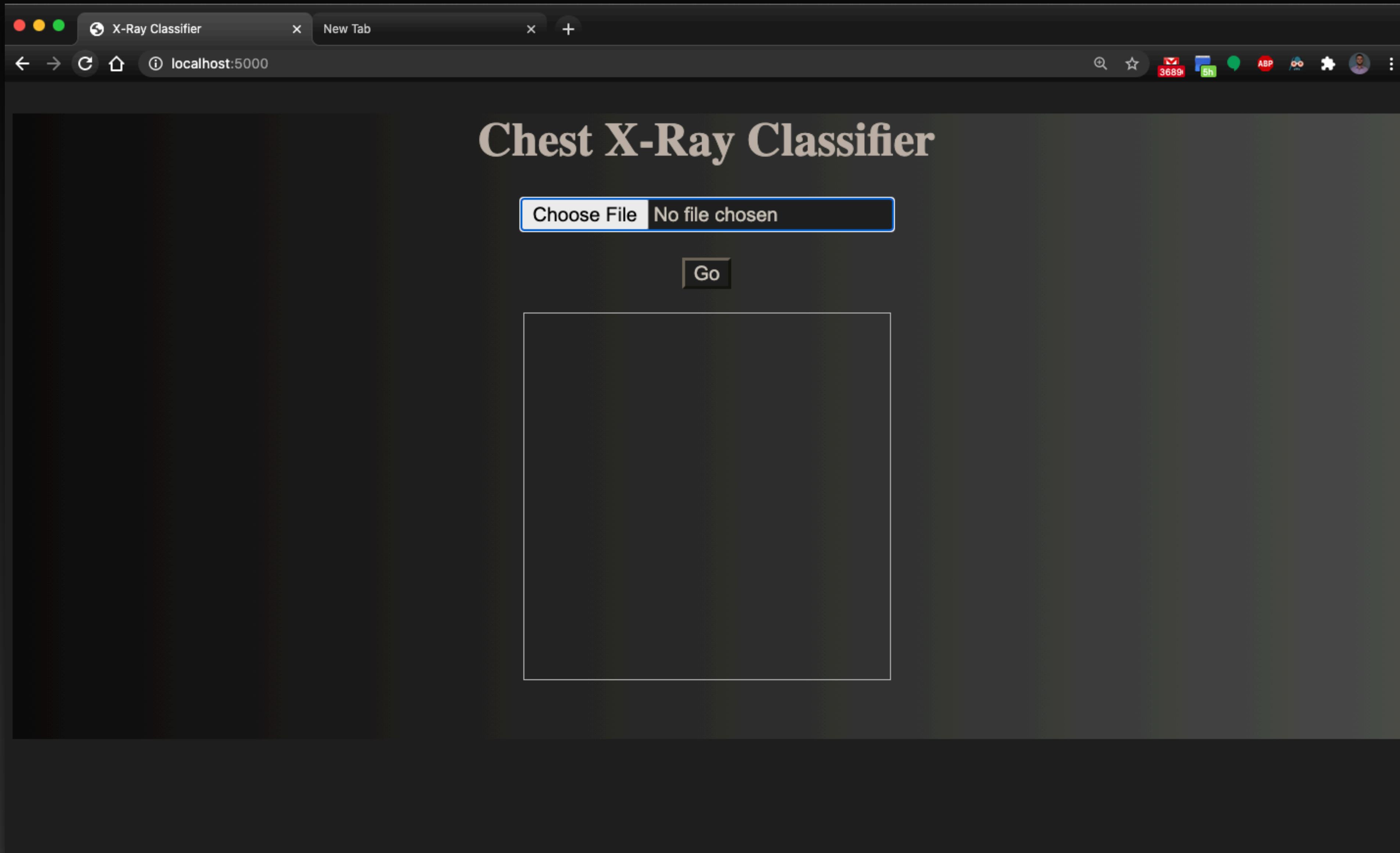
Predictions



Predictions

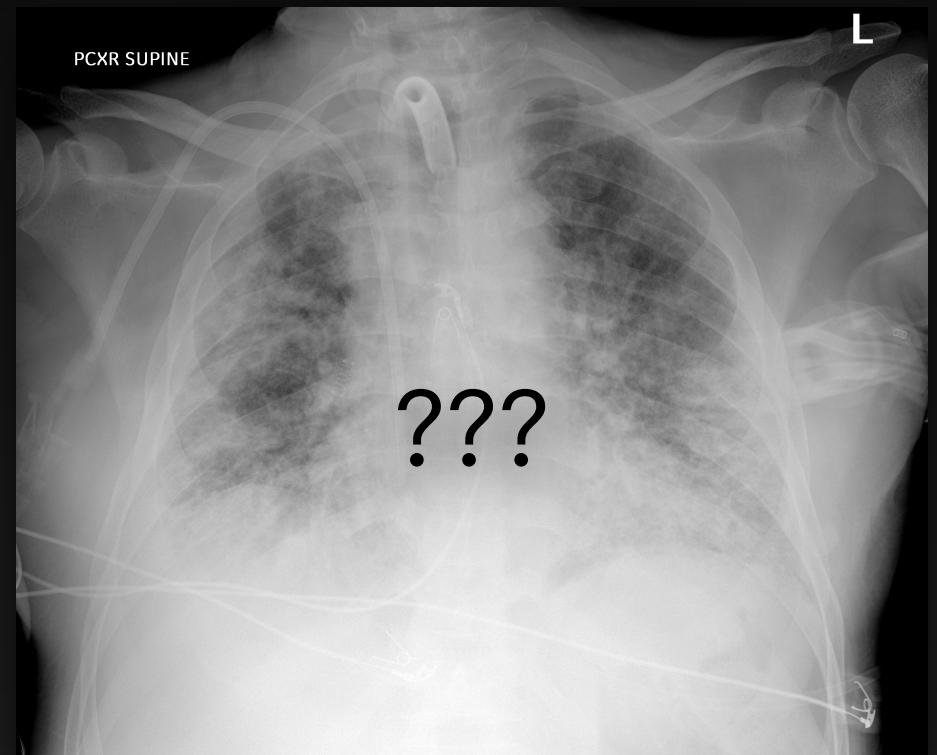


Deployment

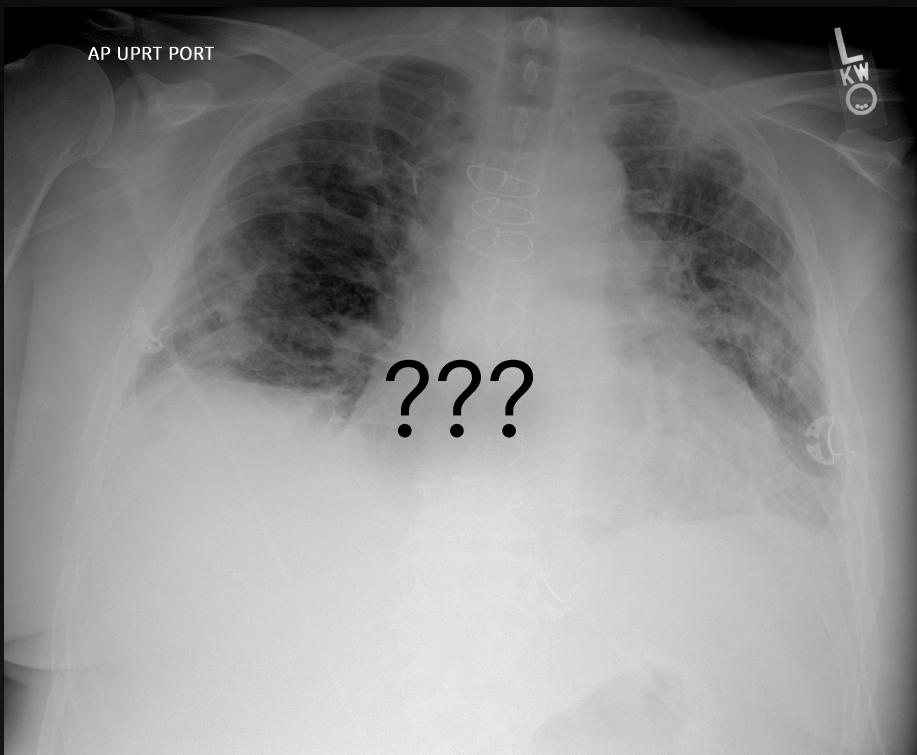


Predictions

COVID-19



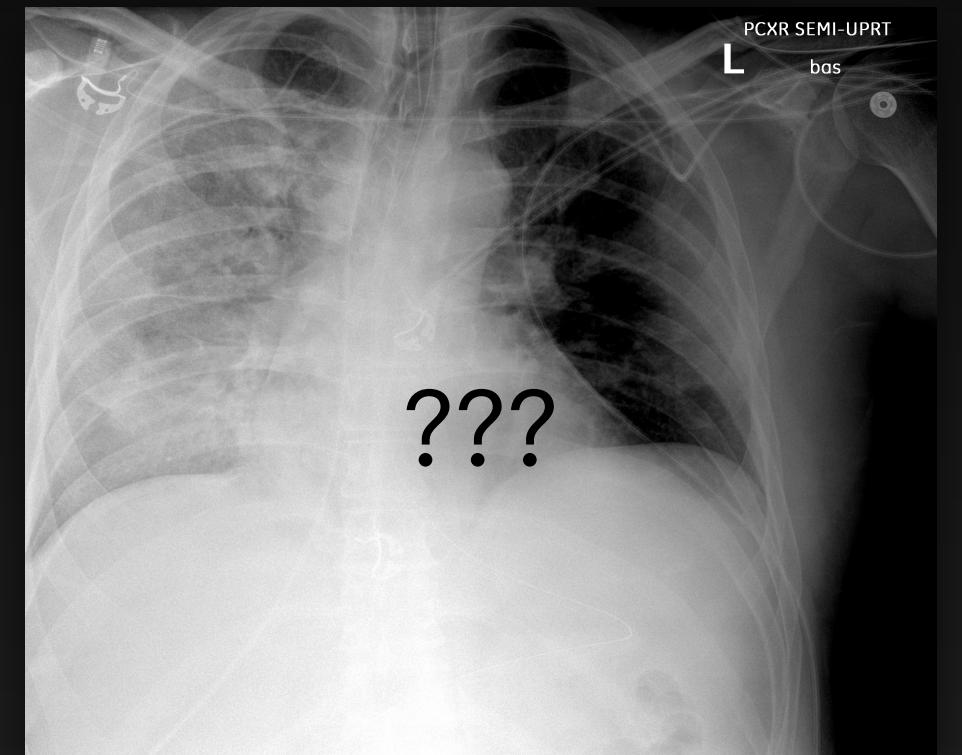
COVID-19



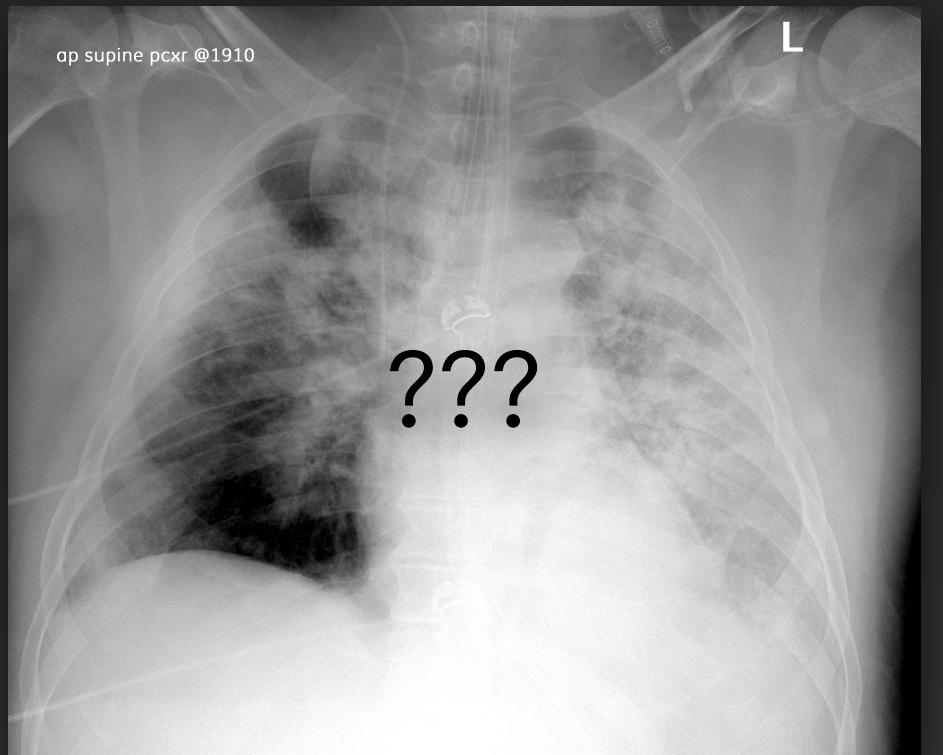
COVID-19



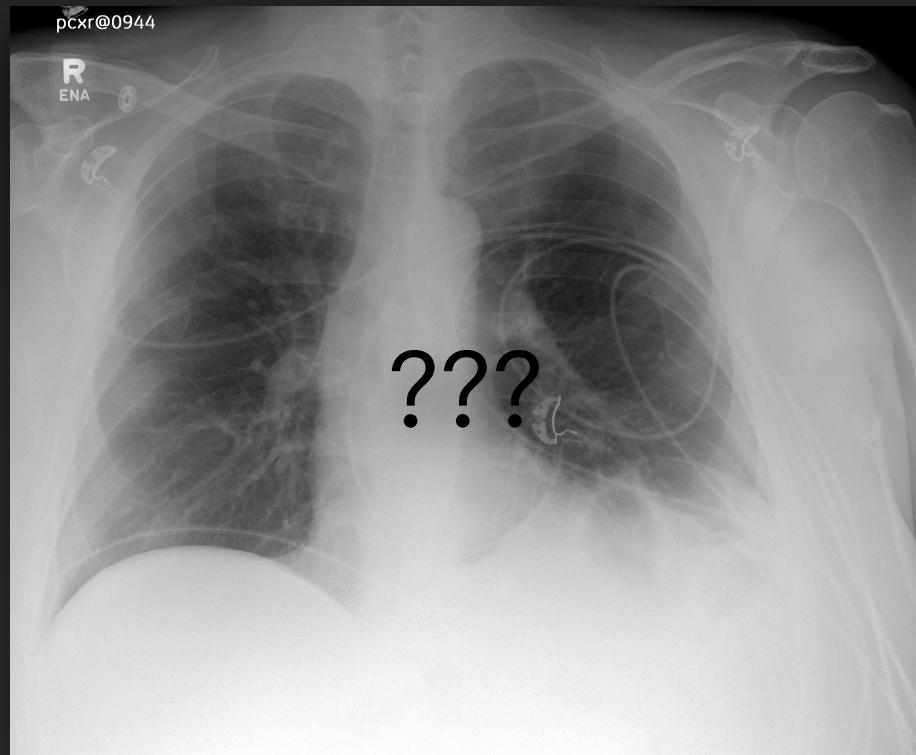
Pneumonia



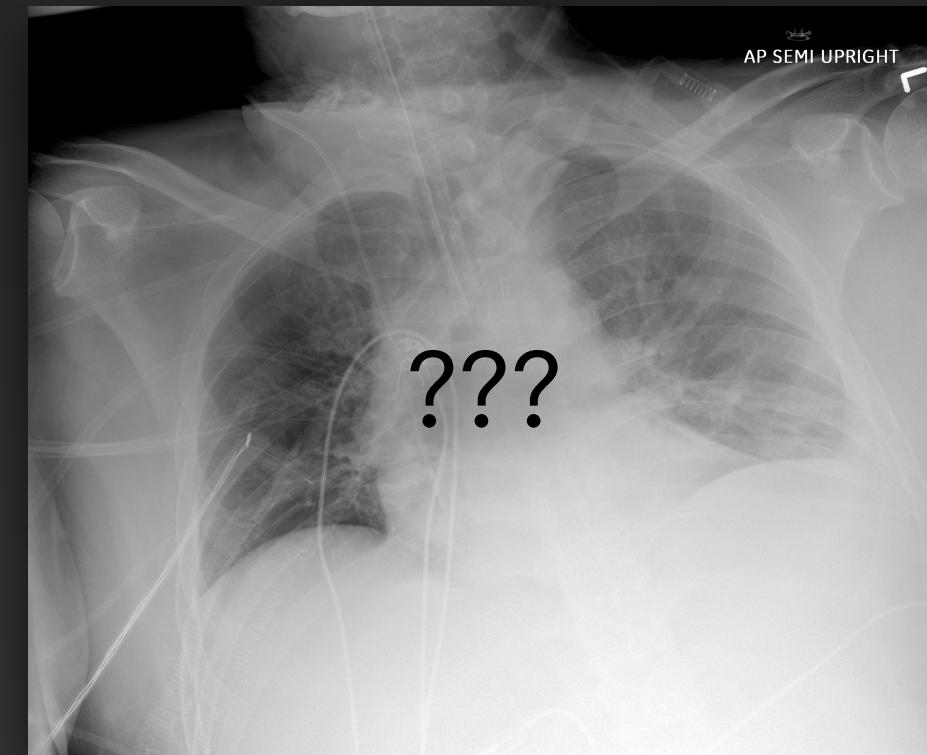
COVID-19



COVID-19

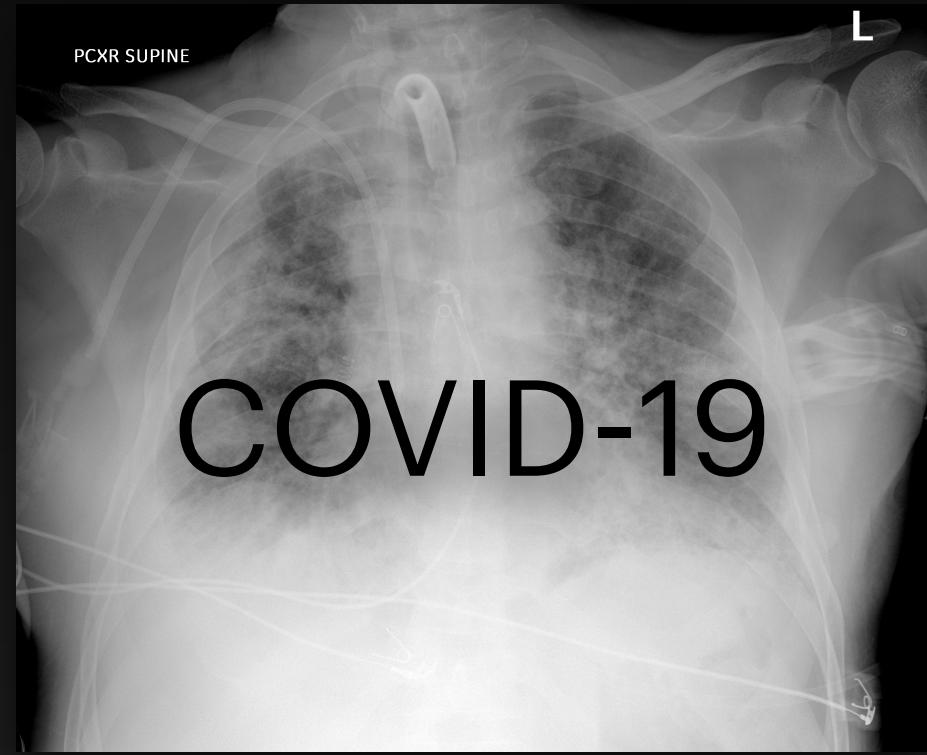


COVID-19

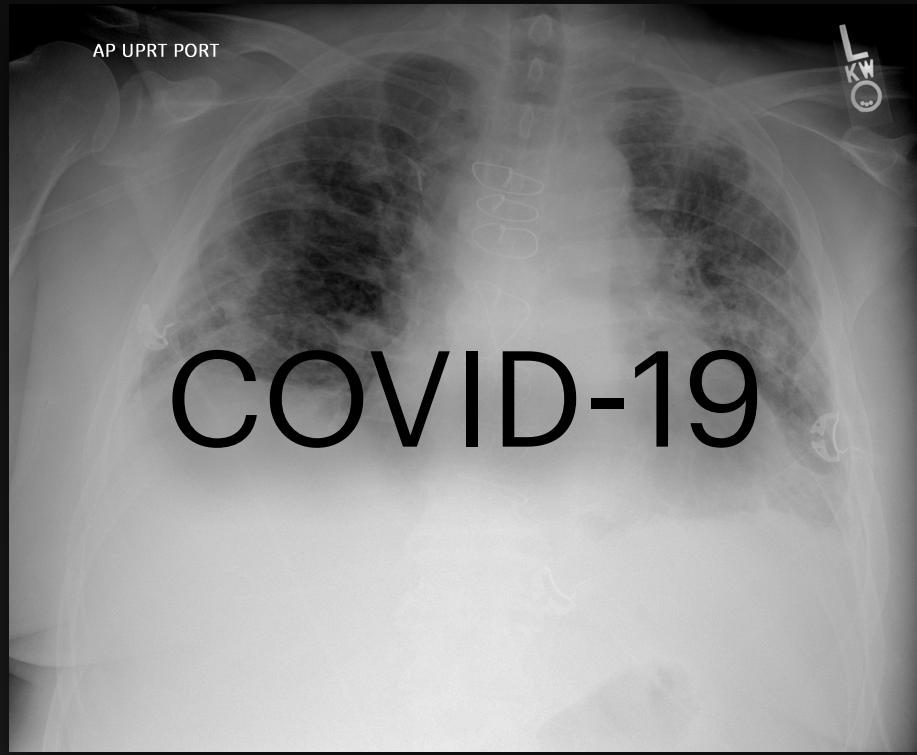


Predictions

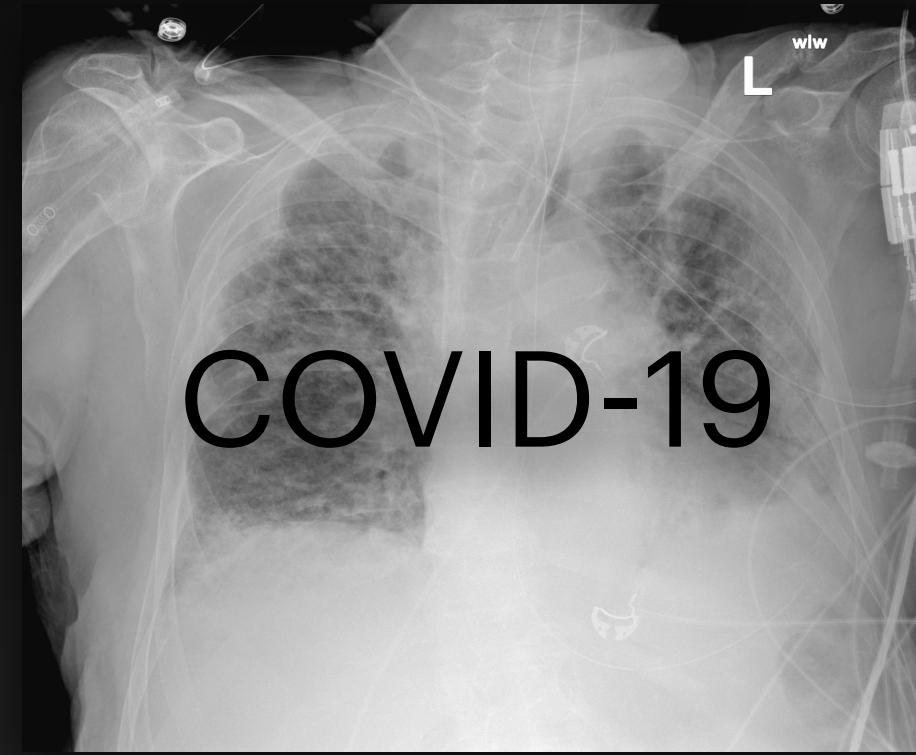
COVID-19



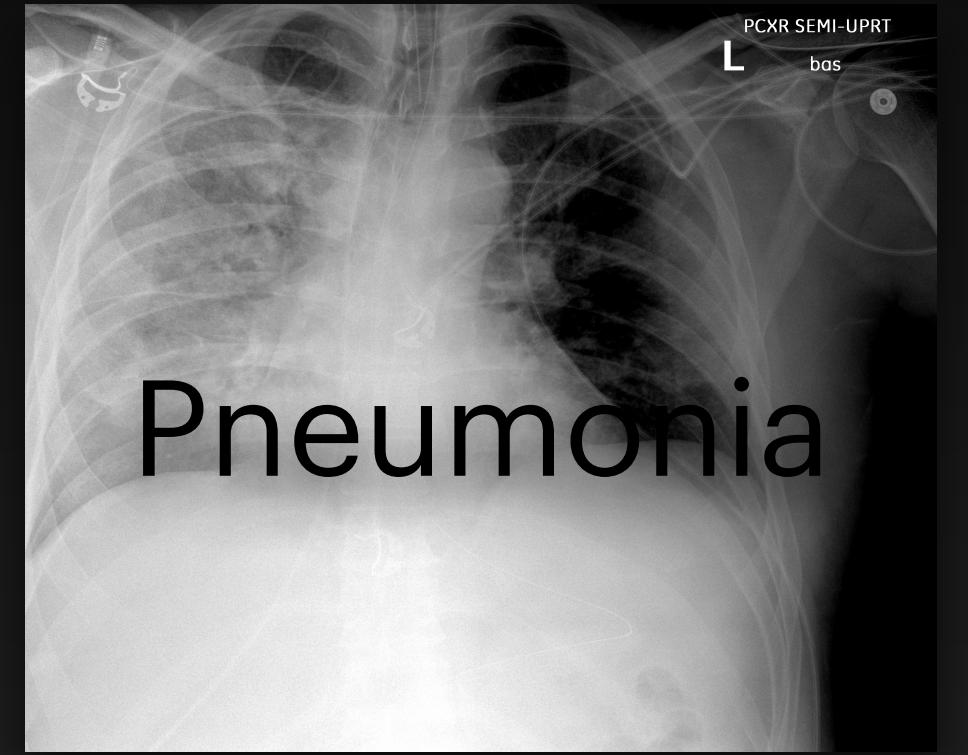
COVID-19



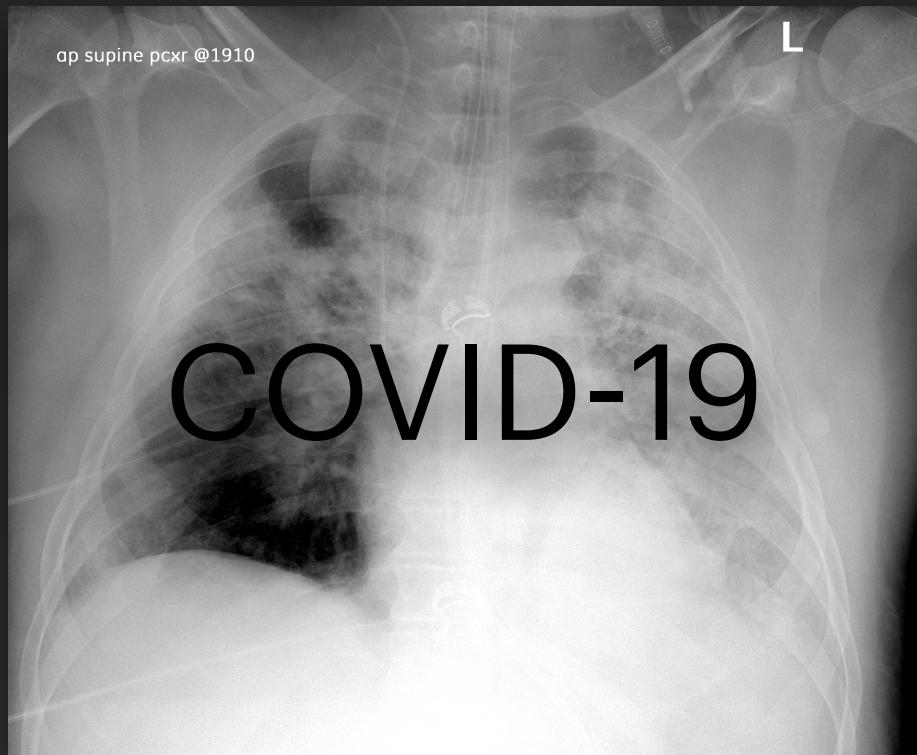
COVID-19



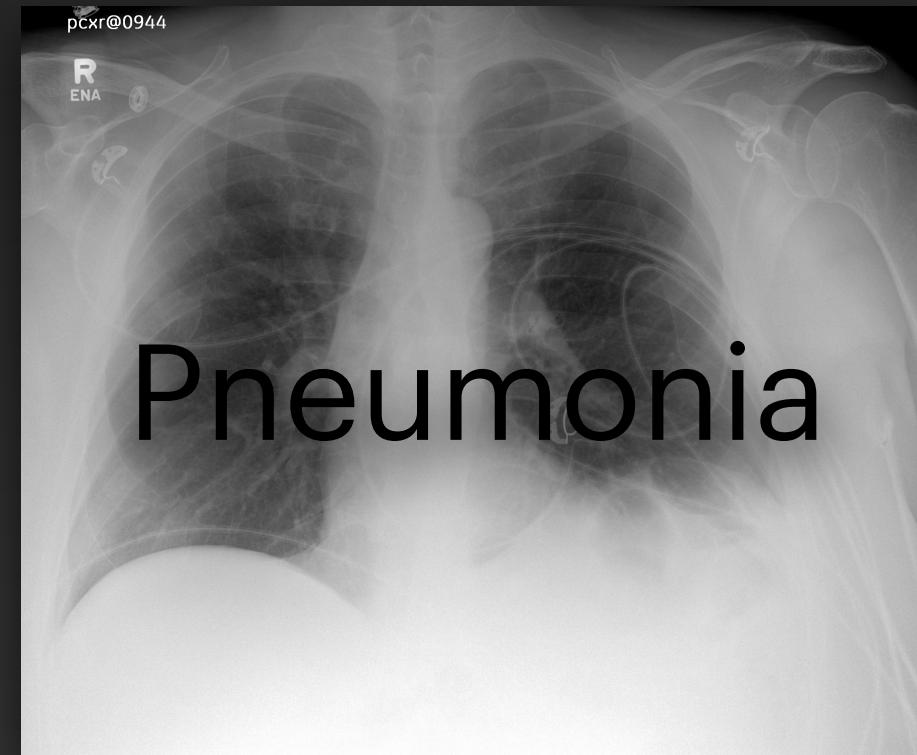
Pneumonia



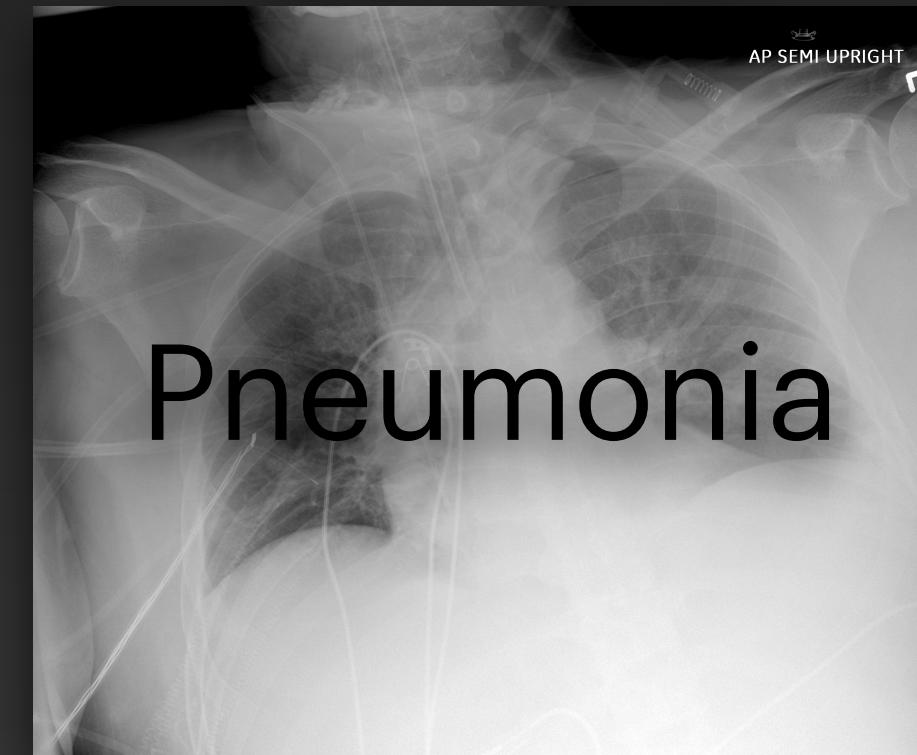
COVID-19



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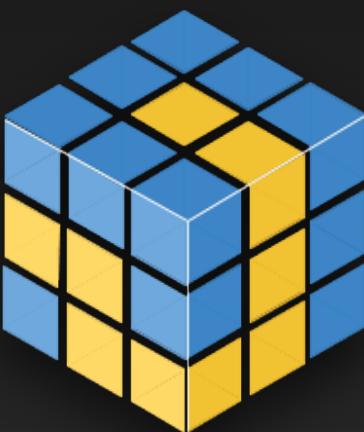
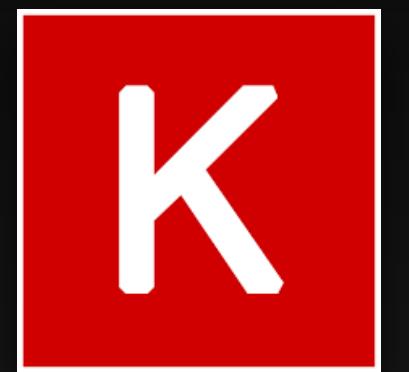


COVID-19

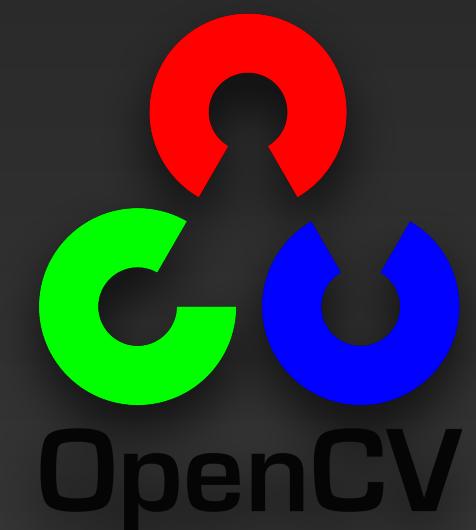


Conclusions

Thank You



NumPy



Flask



/brentthayer1



/brentthayer1

