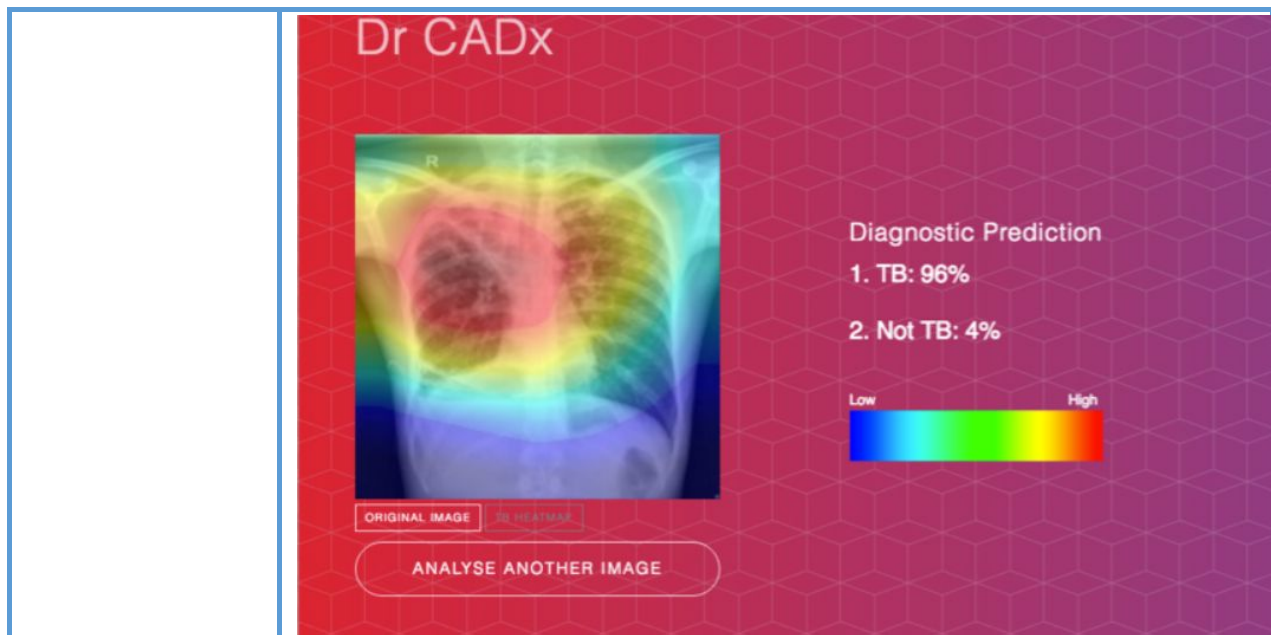


Product Profile: Dr CADx

Product	Dr CADx
Company	Dr CADx
Company HQ	Bulawayo, Zimbabwe
Version	0.1
Website	https://www.drcadx.com
Demo	Demo website not currently publicly accessible. Available on request.
Last updated	April 14, 2020
Description	Dr CADx is a computer aided reading system that can interpret medical images and distinguish CXRs from healthy people from those of patients with TB or lung cancer. On analyzing a CXR image DrCADx provides a likelihood score (between 0-100%) of the presence of TB and also generates a heat map.
Certification	Stage of development: Validation Certification: Pending. South African certification and CE mark anticipated in 2021.
Intended Age Group	16+ years
Target Setting	Primary health centres, General hospital (above primary level), Government/public sector, e.g. national TB program, Private sector
Current Market	Currently not on the market.
Input	Can be used to read images from any kind of CXR machine (vendor neutral). Chest X-ray image format: JPEG, PNG, DICOM Chest X-ray type: Posterior-anterior CXR, Anterior-posterior CXR Other requirements: None
Output	The Dr CADx result consists of: <ul style="list-style-type: none">• Heat map• A probability score for TB



Deployment	Online only
Hardware	Computer interfaced to the x-ray machine and connected to the internet.
Xray Machine Validation	No validation required for the x-ray machine.
Software	Web browser
Server	None
Integration	With the current version it is not possible to integrate with client's legacy Picture Archiving and Communication System (PACS).
Processing Time	Less than a minute
Data Sharing & Privacy	
Server location (for online product)	Server is located in the United States. Local or national server options not currently available.
Data shared with manufacturer?	Yes. DICOM images including DICOM meta data are sent to the server. Dicom meta data is not being used by the manufacturer.
De-identification (option to de-identify?)	No option to de-identify input at the moment. This feature is being developed for the next version of the product.
Software Updates	
Frequency	Annually
Cost	Updates are included in usage fees. No cost difference between private and public sector.
Price	Online solution <ul style="list-style-type: none"> - 1 USD per CXR - No upfront costs Offline solution

	<ul style="list-style-type: none"> - there will be installation costs of \$500 per machine and users will be charged for travel and lodging with actual amount based on location - 1 USD per CXR <p>No difference in public private pricing</p> <p>Sales contact: Gift Gana info@drcadx.com</p>
Product Development	
Method	Supervised deep learning (CNN, RNN)
Training	The product was trained on thousands of CXRs from US, China, Belarus.
Reference Standard	Mixture of human reader, culture, smear and GeneXpert results
Publications	Peer-reviewed publications are not yet available.