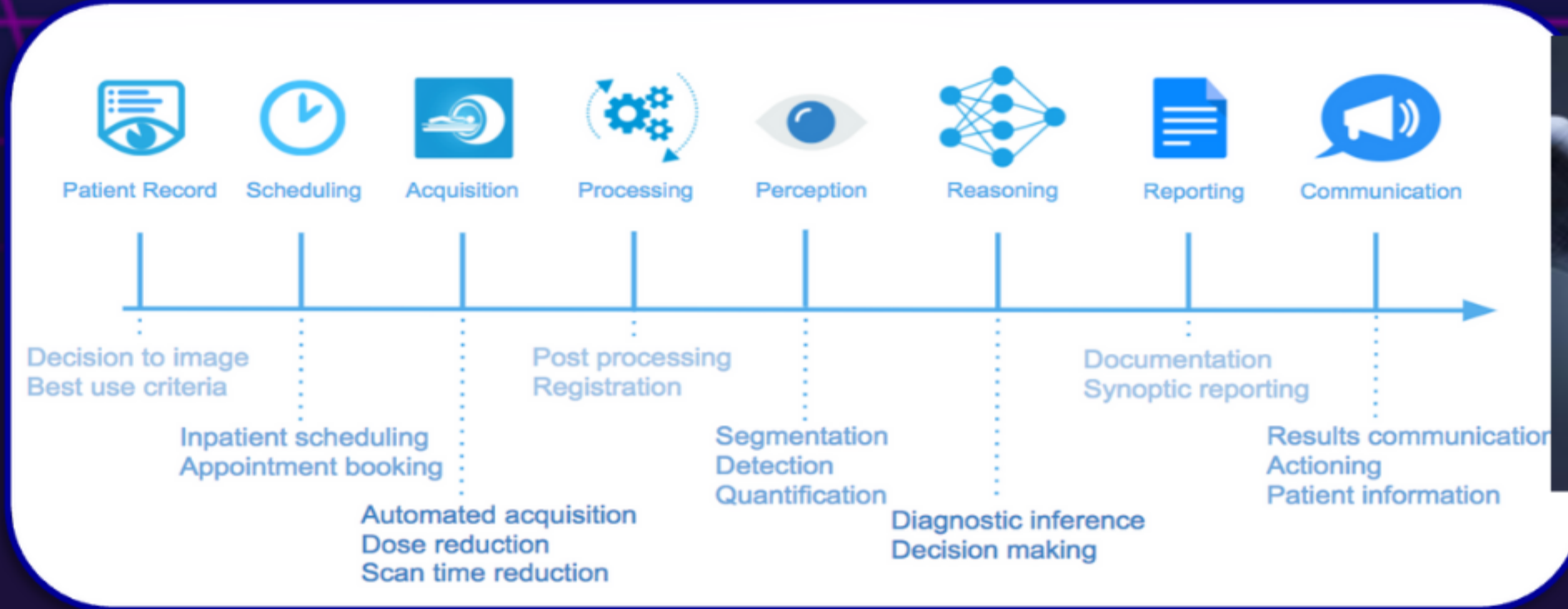# NANAVATI MAX Super Speciality Hospital

"HARNESSING ARTIFICIAL INTELLIGENCE TO ENHANCE QUALITY OF PATIENT MANAGEMENT SERVICES WITH A FOCUS ON RADIOLOGY INNOVATIONS"
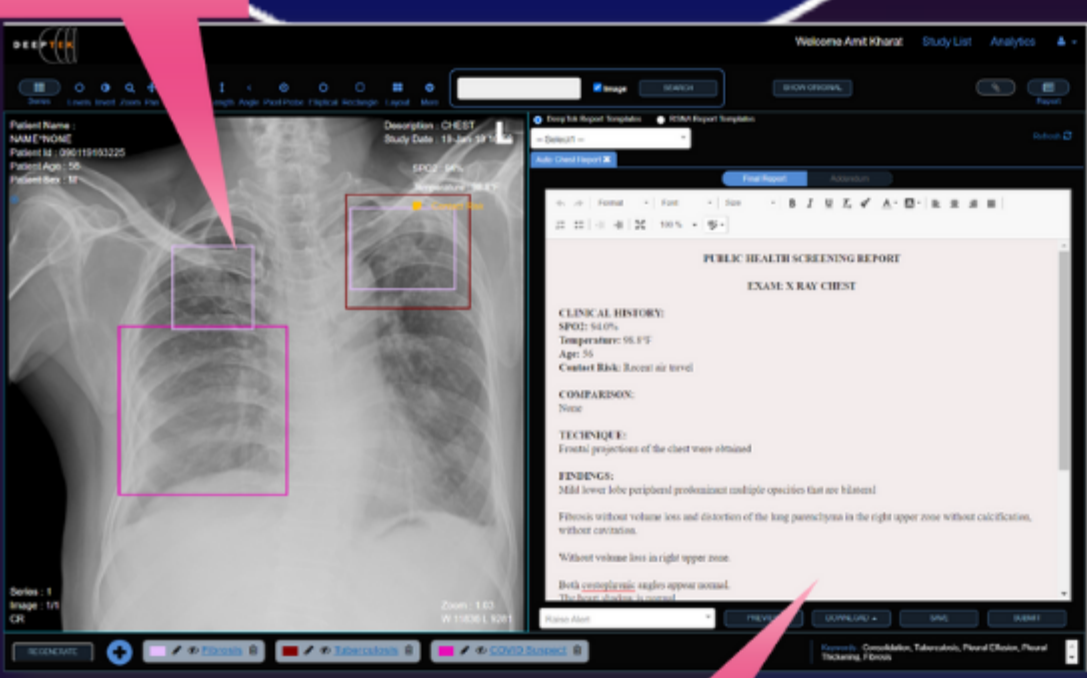

Patient Record | Scheduling | Acquisition | Processing | Perception | Reasoning | Reporting | Communication

Decision to image
Best use criteria

Inpatient scheduling
Appointment booking

Automated acquisition
Dose reduction
Scan time reduction

Post processing
Registration

Segmentation
Detection
Quantification

Diagnostic inference
Decision making

Documentation
Synoptic reporting

Results communication
Actioning
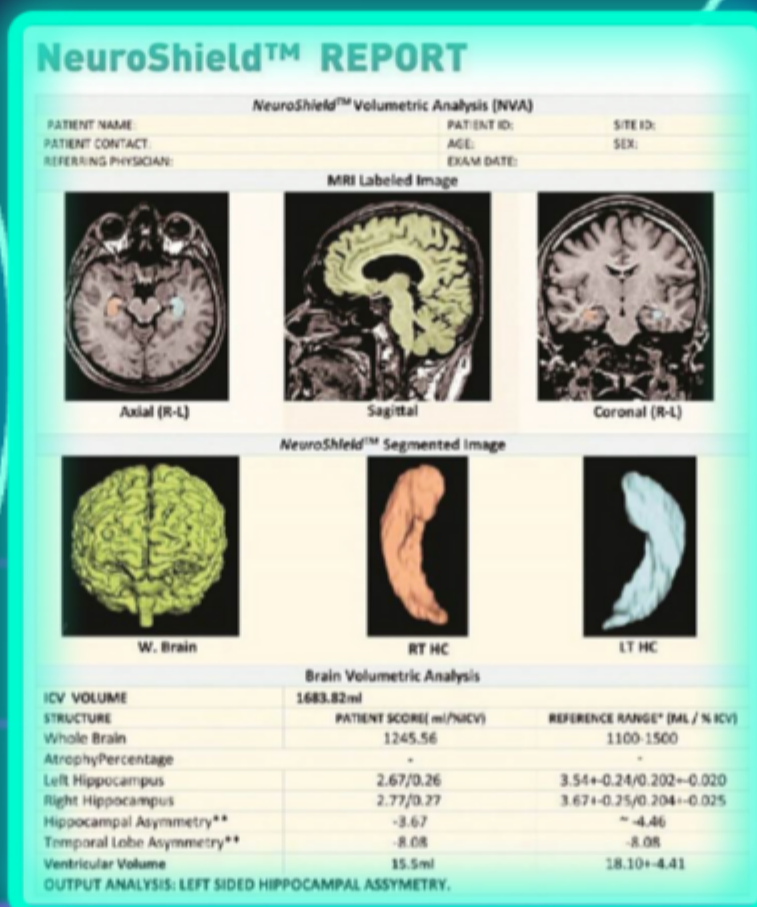Patient information

In Radiology, every step of the way

AUGNITO VOICE RECOGNITION SOFTWARE – FASTER REPORTING

AI IN COVID-DEEPTEK FOR XRAY AND CT ANALYSIS WITH STRUCTURED REPORTING
>3000 X-rays reported

AI Output

Structured Radiology Report

Triage of studies | Disease Classification | Image Acquisition | Test Selection | Image Reconstruction | Computer Aided Detection | Reporting templates

RAPID AI FOR STROKE
1 min saved saves 1.9 million neurons
Door to needle time reduced by 5 mins--9.5 million neurons saved

NEUROSHIELD VOLUMETRY-DEMENTIA REPORTING –MRI
Saves time
Structured reporting

CAD-AI – MAMMOGRAPHY CA BREAST

Head CT Reporting
'Virtual' Brain MRI
White Matter Lesions
Hippocampal Volumetry
Normal vs Abnormal
Brain MRI

Spinal Canal Segmentation

Chest X-Ray
Normal vs Abnormal
Tuberculosis
Pneumothorax
Chest CT
Nodule
Calcium Score
Emphysema

• Non-contrast breast MRI
• AI in Thermography

Liver CT
Volumetry
Segmentation
Fatty Liver
HVPG

Automated Bone Age

Prostate Segmentation

Other Projects
Synthetic PET
Semantic Search
Virtual IHC Pathology
Super-resolution MRI
Virtual Reality
AI Integration Techniques

• Advanced Cartilage Mapping
• Automated ACL Tear Detection

AI Improves Entire Radiology Workflow
From acquisition to prognosis