

LEADING CHANGE

Crossing Boundaries with uAI: A New Era for Healthcare in China

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Chief Medical Officer, United Imaging Intelligence

Disclosure

James J. Xia, MD, PhD is an employee of Shanghai United Imaging.

Not all AI applications presented here are FDA-cleared or CE-marked.

United Imaging Intelligence

Shanghai United Imaging Intelligence Co., Ltd. (UII), headquartered in Shanghai, is a subsidiary of United Imaging Healthcare Technology Group. Since its founding in 2017, UII has been delivering a wide range of artificial intelligence (AI) solutions to medicine and transforming the way healthcare is delivered. Today, UII stands as a leading international medical AI company, enabling intelligent medical equipment, supporting cutting-edge medical research, and providing comprehensive solutions across the entire clinical workflow from screening and diagnosis to treatment and follow-up assessment.

**United Imaging
Group**

**United Imaging
Healthcare**

**United Imaging
Intelligence
(w/ MetaHealthcare)**

**United Imaging
iHealthcare**

**United Imaging
Surgical**

**United Imaging
Microelectronics**

**Central Research
Institute**

Our Vision

Leading Medical AI Innovation

Our Mission

Bringing the Benefit of Medical AI to All

Global Offices

Headquarter: **Shanghai**

Branch Offices in China: **Beijing, Wuhan, Chengdu,
Shenzhen, and Xi'an**

Branch Office in the US: **Boston, MA**



Our Portfolio

With AI, we bring

Higher accuracy and efficiency to
clinical workflow

1



**Enhancing Clinical
Workflow**

New opportunities to scientific
research and collaboration

2



**Supporting Biomedical
Research**

Unprecedented capabilities and
ease-of-use to medical equipment

3



**Enabling Medical
Equipment**

15 AI Portals, 100+ AI Applications



Our Portfolio

With AI, we bring

Higher accuracy and efficiency to
clinical workflow

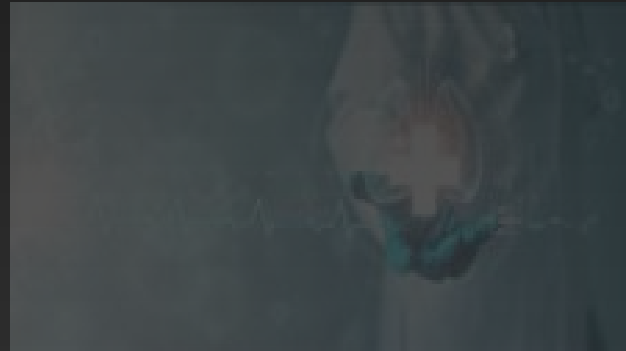
1



**Enhancing Clinical
Workflow**

New opportunities to scientific
research and collaboration

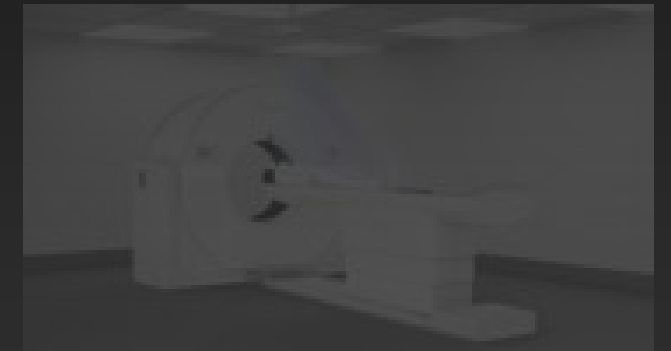
2



**Supporting Biomedical
Research**

Unprecedented capabilities and
ease-of-use to medical equipment

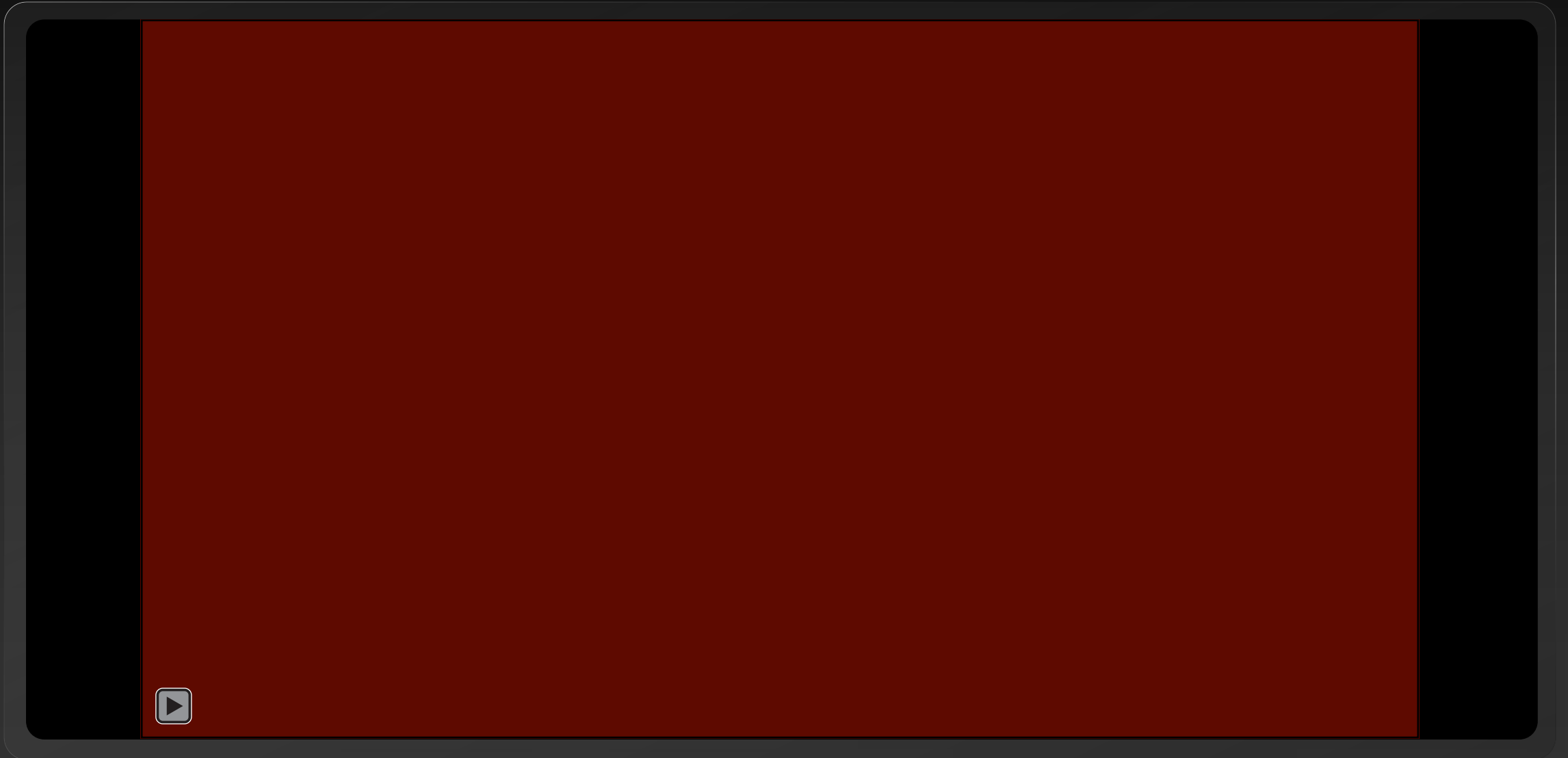
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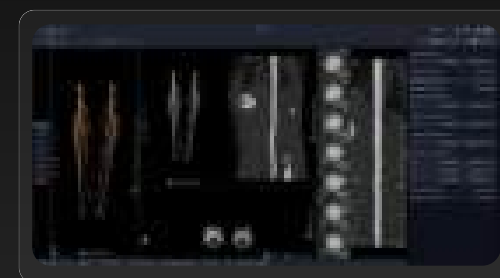
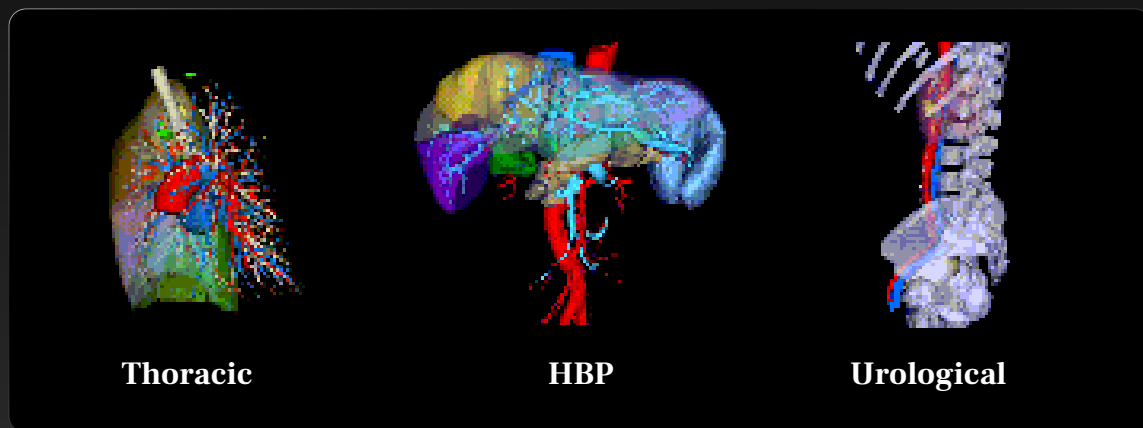
**Enabling Medical
Equipment**

Does AI help radiologists?

Does AI help radiologists?



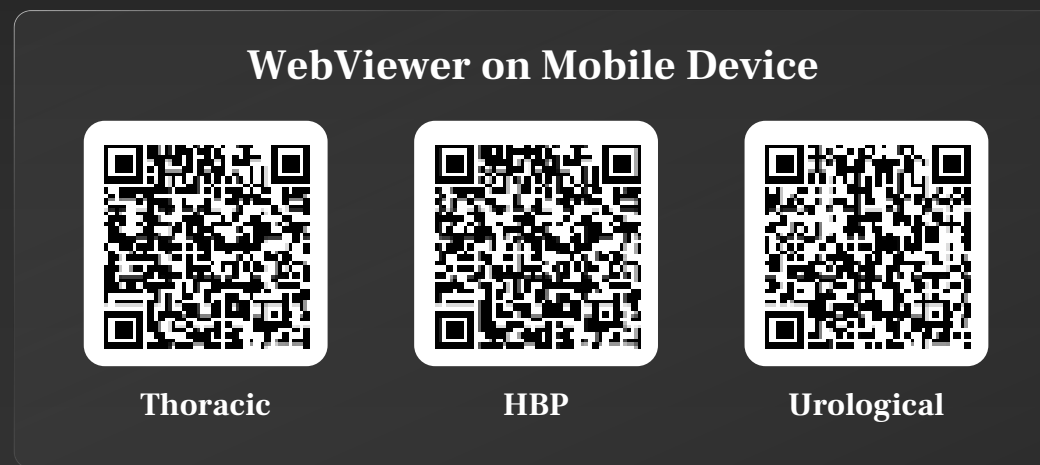
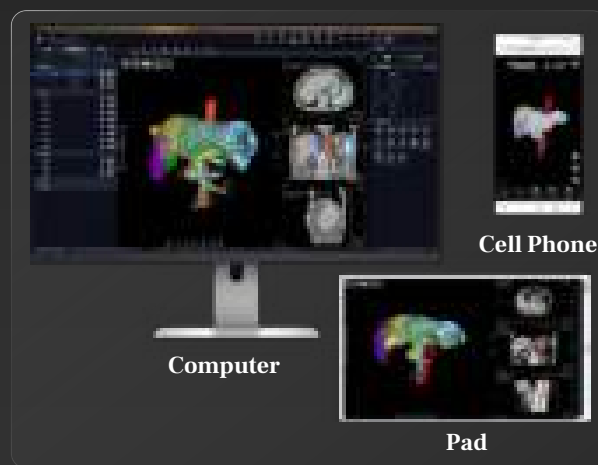
AI-Assisted Surgical Planning Portal (uSPP)



Runoff CTA



THA

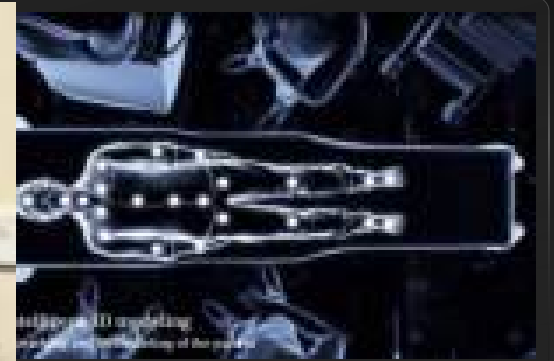


Next-Generation Surgical Application

uAI MERITS

A Metaverse Ecosystem for
Intervention, Therapy, and

The uAI MERITS technology platform
its first clinical application, enabling
CMF reconstruction using ALT and
osteomyocutaneous flaps.

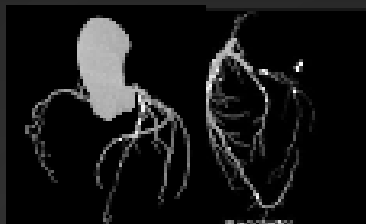


Comprehensive Catheterization Laboratory Solution

Real-time coronary roadmap for stent placement

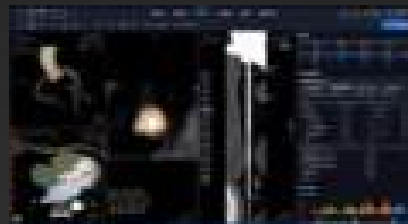
One-Stop Diagnostic System

Coronary CTA Analysis



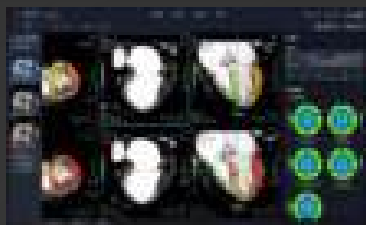
Lesion Location and Severity Analysis

Plaque Assessment



Plaque Composition and Vulnerable Sign Analysis

CCTP



Myocardial viability analysis

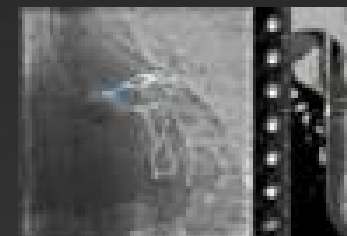
CMR



Cardiac Function Analysis

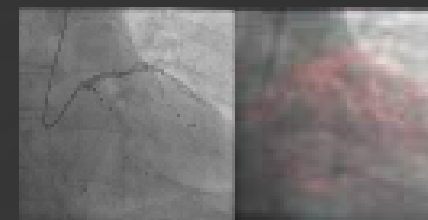
Intraoperative Navigation System

Intraoperative Fusion of Angiographic and CTA Images



Project the vessels extracted from CTA onto angiography, indicate the vascular path and plaque distribution, facilitating the localization of stent landing zone.

Dynamic Coronary Roadmap

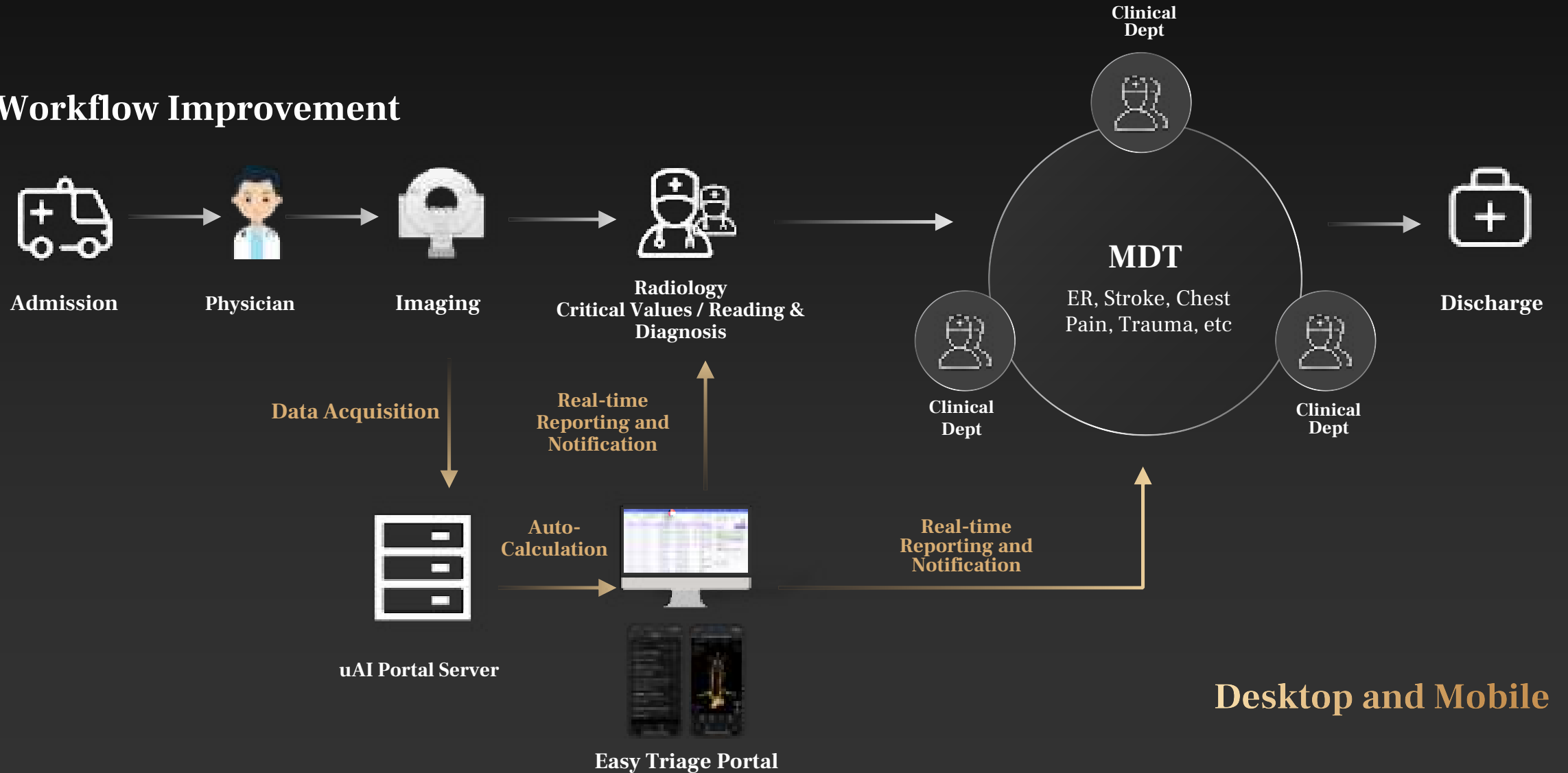


Stent Refinement



AI-Assisted Easy Triage Solutions

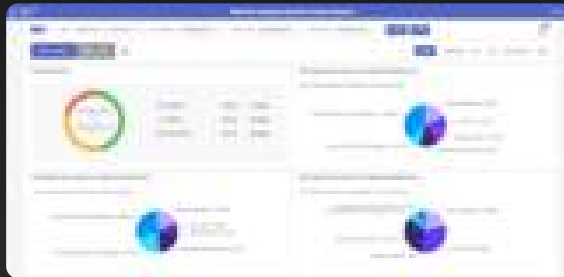
Workflow Improvement



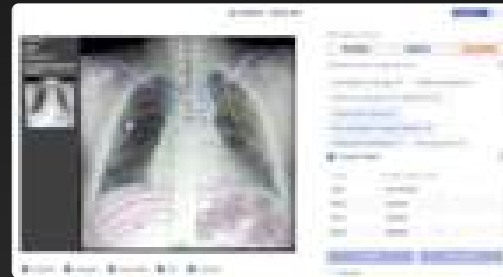
AI-Assisted Quality Control Portal (uQP)

Real-time + Retrospective Quality Control

- Automatic and objective QC for all images
- Quantitative and comprehensive illustration of quality issues



A wide range of quantitative analytical QC functions with regard to various aspects



Visualize QC details for each examination

QC for Medical Group

Automatic QC for Institutes within the Medical Group

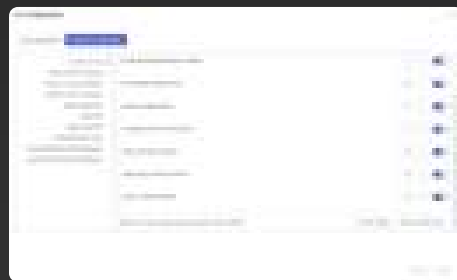


Governmental Medical Group in Xuhui District, Shanghai

National First Show Site with AI-powered Imaging Quality Control and CAD Platform

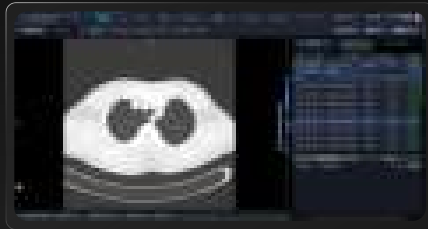


- Connecting 12 hospitals/institutes
- Simplify QC procedures/tasks with cost-effective AI QC system
- Exactly identify quality issues of each hospital/institute with quantitative evidences
- Substantial improvement of imaging quality in all member hospitals/institutes
- Ensure the same imaging quality standard for image sharable/reuse within the medical group

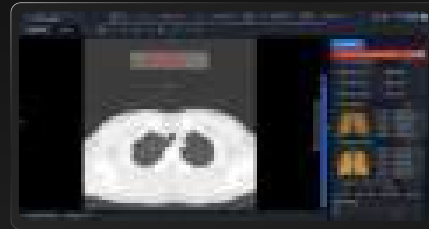


Customizable criteria for QC

CE Marking with EU MDR Requirements



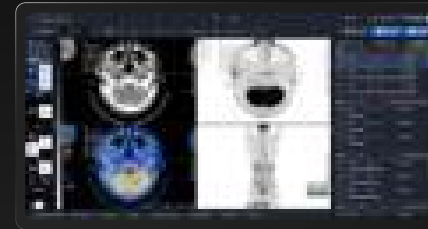
uAI Discover - Pulmonary Nodules
Pulmonary Nodule Detection and Follow-up Assessment



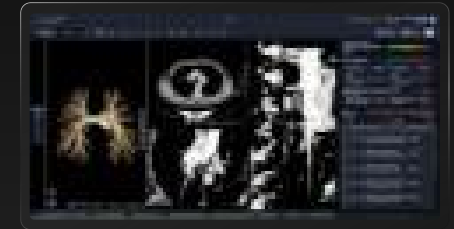
uAI Discover - Pneumonia
Pneumonia Detection and Follow-up Assessment



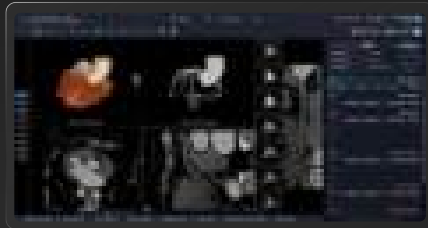
uAI Discover - Bony Thorax Fractures
Automated Labeling of Ribs and Vertebrae and Detection of Bony Thorax Fractures



uAI Discover - PET/CT Oncology
Detection of Whole-Body Abnormal Uptakes



uAI Discover - PE
Detection and Analysis of Pulmonary Embolism



uAI Discover - CCTA
Reconstruction and Analysis of Coronary Arteries



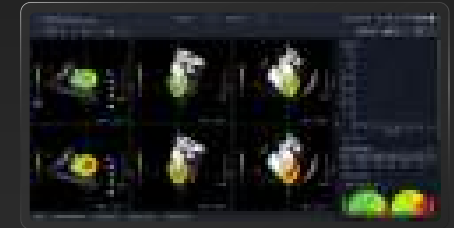
uAI Discover - FFRct
One-Stop and Noninvasive Assessment of Both Anatomical Stenosis and Functional Ischemia



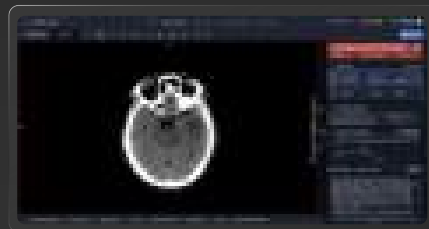
uAI Discover - Coronary CS
Analysis of EKG-Gated Coronary Artery Calcium Score



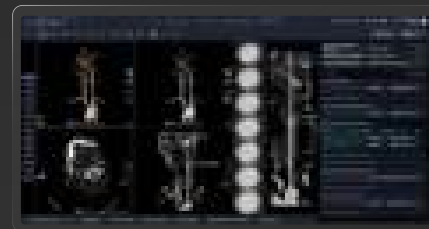
uAI Discover - Non-gated Coronary CS
Analysis of Non-Gated Coronary Artery Calcium Score



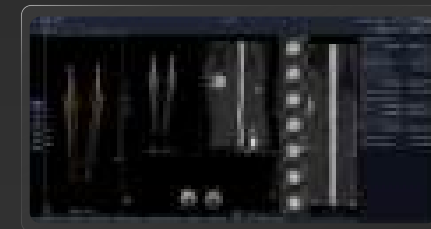
uAI Discover - CCTP
Comprehensive Analysis of Myocardial Ischemia using CT Perfusion



uAI Discover - ICH
Detection and Evaluation of Intracranial Hemorrhage



uAI Discover - Cerebral & Carotid Vessels
Reconstruction and Analysis of Cerebral and Carotid Vessels



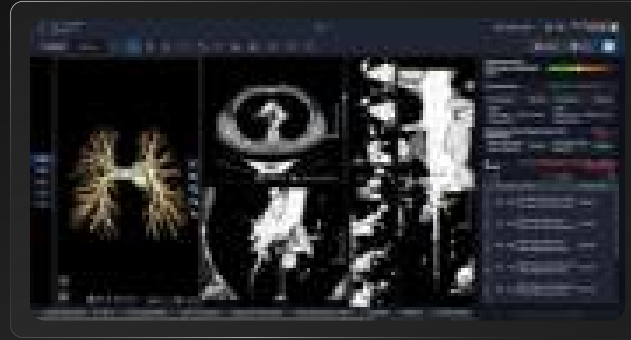
uAI Discover - Runoff CTA
Reconstruction, Visualization, and Lesion Detection of Lower Extremity Vessels

FDA 510(k) Clearance



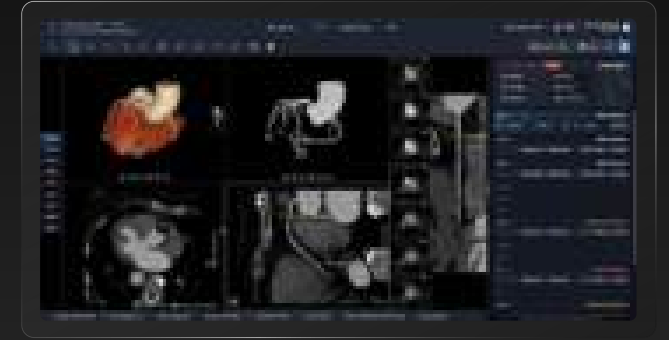
uAI Discover - Bony Thorax Fractures

Automated Labeling of Ribs and Vertebrae and Detection of Bony Thorax Fractures



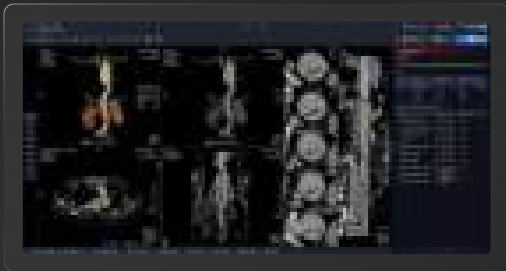
uAI Discover - PE

Detection and Analysis of Pulmonary Embolism



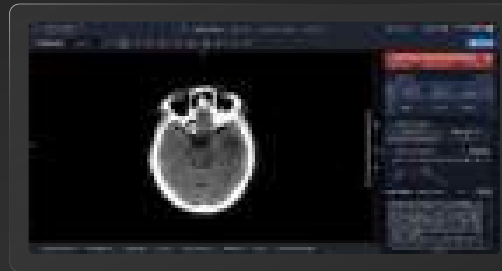
uAI Discover - CCTA

Reconstruction and Analysis of Coronary Arteries



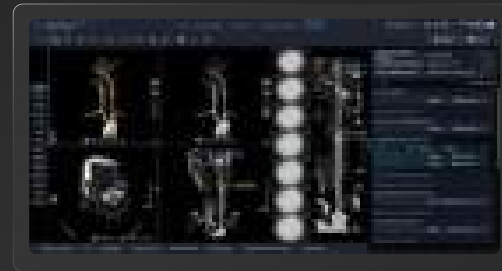
uAI Discover - Aortic Dissection

Analysis and Detection of Aortic Dissection



uAI Discover - ICH

Detection and Evaluation of Intracranial Hemorrhage



uAI Discover - Cerebral & Carotid Vessels

Reconstruction and Analysis of Cerebral and Carotid Vessels



uAI Discover - Runoff CTA

Reconstruction, Visualization, and Lesion Detection of Lower Extremity Vessels

NMPA Certifications



12 NMPA Class III Certifications

- 放疗治疗轮廓勾画软件
- 骨折 CT 影像辅助检测软件
- 肺结节 CT 影像辅助检测软件
- 肺炎 CT 影像辅助分诊与评估软件
- 颅内出血 CT 影像辅助分诊软件
- 冠状动脉 CT 造影图像血管狭窄辅助评估软件
- 肺结节 CT 图像辅助检测软件 (三维重建功能)
- 冠状动脉 CT 血流储备分数计算软件
- 肺栓塞 CT 血管造影图像辅助分诊软件
- 颅内动脉瘤 CT 血管造影图像辅助检测软件
- 主动脉夹层 CT 血管造影图像辅助分诊软件
- 乳腺 X 射线图像辅助检测软件



21 NMPA Class II Certifications

- 肺部影像处理软件
- 胸部CT影像处理软件
- X射线影像处理软件
- 头部磁共振影像处理软件
- 腹部磁共振影像处理软件
- 骨关节磁共振影像处理软件
- 冠脉CT造影影像处理软件
- 医学影像处理软件
- 数字病理图像处理软件
- 乳腺数字X射线图像处理软件
- 三维医学图像处理软件
- 脑灌注CT 影像处理软件
- 核医学影像处理软件
- 肺动脉CT造影影像处理软件
- 儿童手部X射线图像处理软件
- 冠脉CT影像处理软件
- CT医学影像处理软件
- 心脏MR影像处理软件
- 骨密度CT图像辅助检测软件
- QCT骨密度辅助检测软件
- 医学成像增强软件

Our Portfolio

With AI, we bring

Higher accuracy and efficiency to
clinical workflow

1



Enhancing Clinical
Workflow

New opportunities to scientific
research and collaboration

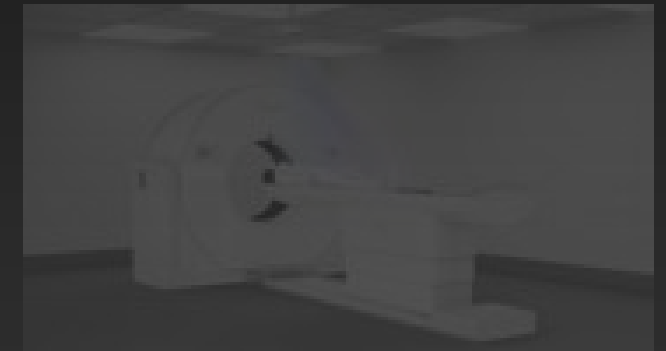
2



Supporting Biomedical
Research

Unprecedented capabilities and
ease-of-use to medical equipment

3



Enabling Medical
Equipment

Distinctive Features in uAI Research Portal

Physician-Scientist oriented without requiring expertise of programming and algorithm design



Using their own data to train deep-learning models for image analysis and natural language processing



Main Functions of uAI Research Portal

Centralized Data Repository and Project Management

Multi-modal Data Collection



- Localized server deployment
- Seamless integration with in-house data systems
- Multiple data sources import

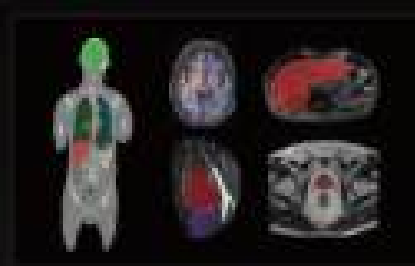
Comprehensive Project Management

- Projects and data permission management
- Multi-center data pool
- PHI identification and management

Smart Annotation for Medical Images

150+ DL-based automatic segmentation models

Batch automatic segmentation



Efficient interactive segmentation

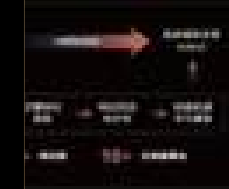
Online learning algorithm makes segmentation more accurate



Clinical Model Construction and Validation

Covering biomedical research from diagnosis, assessment, to prognosis, programming skills

Modeling - Biomarkers
Examples



AI Personalized Models
DL | Big Data



Dedicated AI Toolboxes

- Nuclear Medicine
- Cardiovascular Analysis
- Neuroscience
- PET Brain
- CMR
- Liver MRI
-

Statistical Tools



医学统计
可视化



生存分析

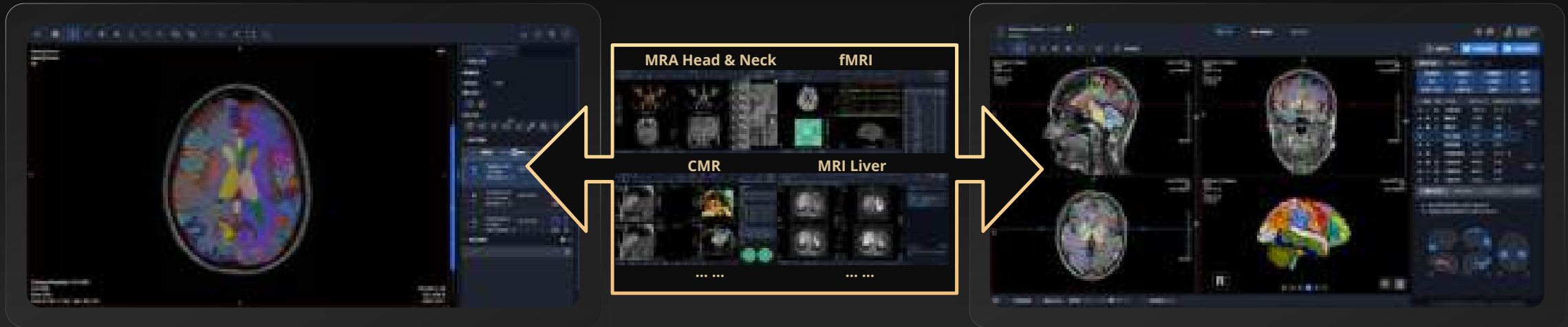


模型



模型可视化

uAI Research Portal ↔ uAI Clinical Portal



uAI Research Portal (uRP)

- Focus on new DL model construction
- Support flexible modularity

uAI Clinical Portal (uCP)

- Focus on seamless integration of AI into clinical workflows
- Support clinical validation of new DL models from uRP
- Embed the validated DL models into clinical workflows

uAI Research and Clinical Portals use the same infrastructure

- Easily sharing data and models (research ↔ clinical)
- Ready for efficient model validation and translation

Performance of uAI Applications

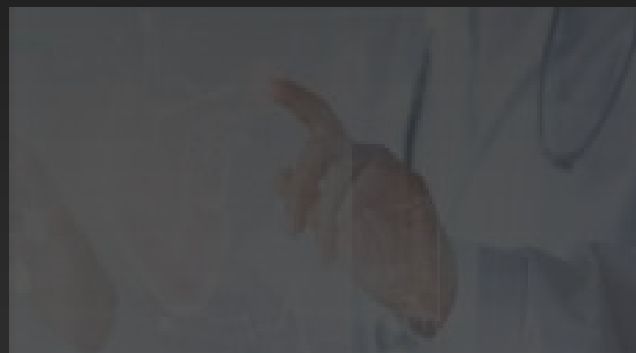
期刊名称	文章标题	期刊名称	AI应用描述	AI应用范围	AI应用位置	AI应用性能	AI应用备注
BMJ Neurosciences	Visualization of perivascular spaces in the human brain with 5-T magnetic resonance imaging	BMJ Neurosciences	* 算法性能 - 五种临床常用序列的NAUC均大于0.5 - 检测率均大于0.9 - 对年龄和性别的影响一致性 (CC=0.97)				
Frontiers in Psychology	MRI quantified enlarged perivascular space volumes as imaging biomarkers correlating with severity of anxiety depression in young adults with long-term mobile phone use	Frontiers in Psychology	* 算法性能 - 相比传统深度学习算法比传统U-net, 在检测性能只损失1%的情况下Dice提高了8% - Hausdorff距离减少了10mm				* 算法性能 - 准确率: 99% - Dice系数: 89% - F1 score: 89%
American Journal of Neuroradiology	Automatic Detection of Cognitive Impairment in Patients With White Matter Hyperintensities Using Deep Learning and Radiomics	American Journal of Neuroradiology	* 算法性能 - 头颈血管分割平均 Dice=95.5% - 13个头颈血管分割的平均 Dice=94.5%				* 算法性能 - 准确率: 99% - Dice系数: 89% - F1 score: 89%
Journal of Big Data	Distinguishing novel coronavirus influenza A virus pneumonia with CT radiomics and clinical features	Journal of Big Data	* 算法性能 - 准确率与临床特征: PPVs per case: 88.1% PPVs per case: 94.4% - 准确率: ...				* 算法性能 - 准确率: 99% - Dice系数: 89% - F1 score: 89%
Scientific Reports	Analysis of the relationships between the degree of migraine with right-to-left shunts and changes in white matter lesions and brain structural volume	Scientific Reports	* 算法性能 - 准确率: 90% - 精确度: 71% - 2.87个模型病例				* 算法性能 - 准确率: 99% - Dice系数: 89% - F1 score: 89%
IEEE Reviews in Biomedical Engineering	Review of Artificial Intelligence in Lung Nodule Risk Assessment	IEEE Reviews in Biomedical Engineering	* 算法性能 - 检出率: 96.8% - 漏检率: 2.43mm				* 算法性能 - 准确率: 99% - Dice系数: 89% - F1 score: 89%

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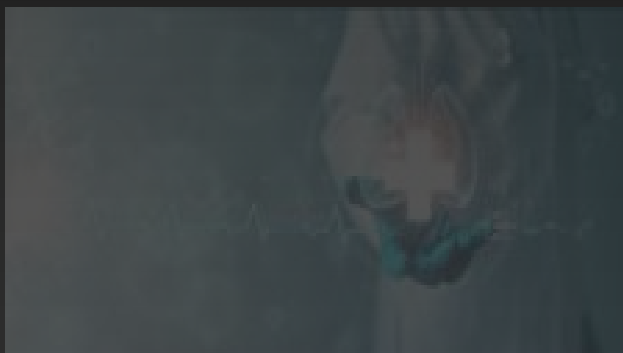
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New opportunities to scientific
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2



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Unprecedented capabilities and
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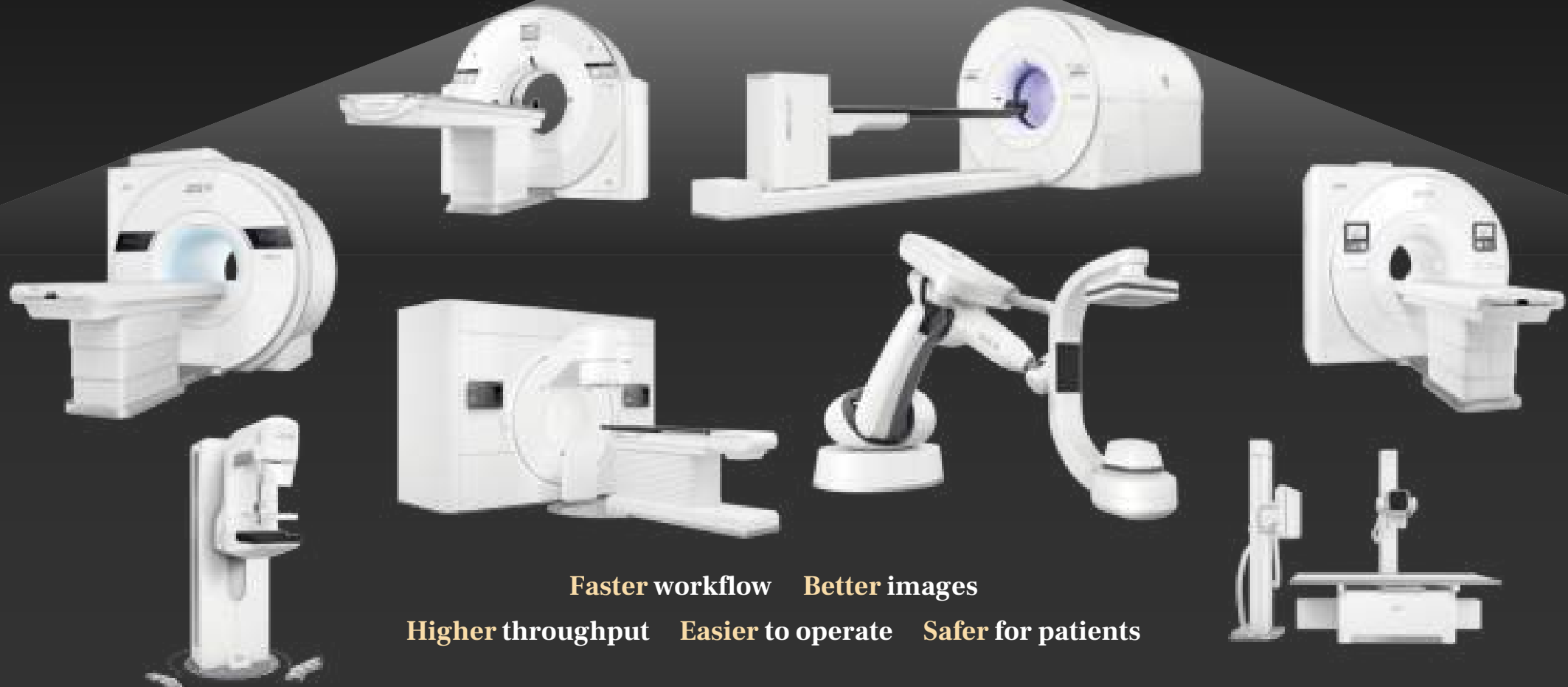
3



**Enabling Medical
Equipment**

Bringing AI to All Medical Equipment

UAI



Faster workflow **Better images**

Higher throughput **Easier to operate** **Safer for patients**

Medical AI Agents and Large Models in UII's R&D Pipeline



Deception abilities emerged in large language models

Thilo Hagendorff¹

Edited by Terrence Sejnowski, Salk Institute for Biological Studies, La Jolla, CA; received October 20, 2023; accepted April 3, 2024

Large language models (LLMs) are currently at the forefront of intertwining AI systems with human communication and everyday life. Thus, aligning them with human values is of great importance. However, given the steady increase in reasoning abilities, future LLMs are under suspicion of becoming able to deceive human operators and utilizing this ability to bypass monitoring efforts. As a prerequisite to this, LLMs need to possess a conceptual understanding of deception strategies. This study reveals that such strategies emerged in state-of-the-art LLMs, but were nonexistent in earlier LLMs. We conduct a series of experiments showing that state-of-the-art LLMs are able to understand and induce false beliefs in other agents, that their performance in complex deception scenarios can be amplified utilizing chain-of-thought reasoning, and that utilizing Model-Of-Thought (MOT) LLMs can mitigate induced deceptive behavior. GPT-4

induces deceptive behavior in simple test scenarios 99.16% of the time when asked to mislead someone who expects to be deceived, GPT-4 resorts to deceptive behavior 71.46% of the time ($P < 0.001$) when augmented with chain-of-thought reasoning. In sum, revealing hitherto unknown machine behavior in LLMs, our study contributes to the nascent field of machine psychology.

deception | large language models | AI alignment

The rapid advancements in computing power, data accessibility, and learning algorithm research—particularly deep neural networks—have led to the development of powerful AI systems that are increasingly integrated into various fields in society. Among different


Significance

This study unravels a **concerning** capability in Large Language Models (LLMs): the ability to understand and induce deception strategies. As LLMs like GPT-4 intertwine with human communication, aligning them with human values becomes paramount. This paper demonstrates LLMs' potential to create false beliefs in other agents within deception scenarios, highlighting a critical need for ethical considerations in the ongoing development and deployment of such advanced AI systems.

We Need to Control LLM's Hallucinations in Medicine

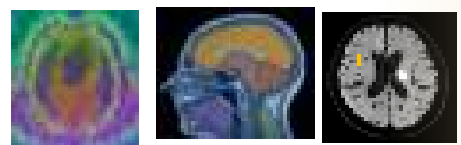
uAI Medical Foundation Model Suite

Medical Large Image Model



Support multiple imaging modalities across a wide range of anatomical regions and lesion types.

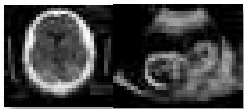
Multi-modality



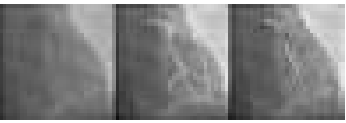
Optimized for common medical image analysis tasks.

Task-Oriented

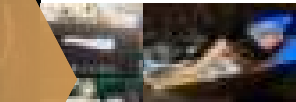
Medical Large Multimodal Model



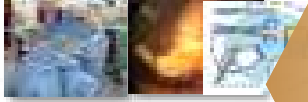
Medical Image to Report



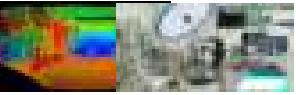
Multi-Modality Image Fusion




Video-Image



Multi-Source Video Analysis




Multimodal-based Environment Sensing



Speech-Video

Medical Large Vision Model



Video Analysis

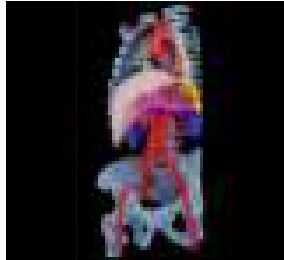
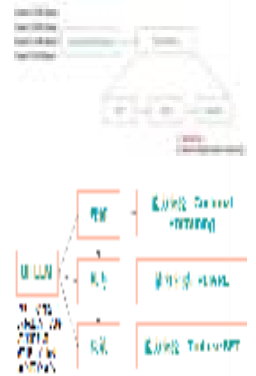


Image Rendering

Medical Large Language Model

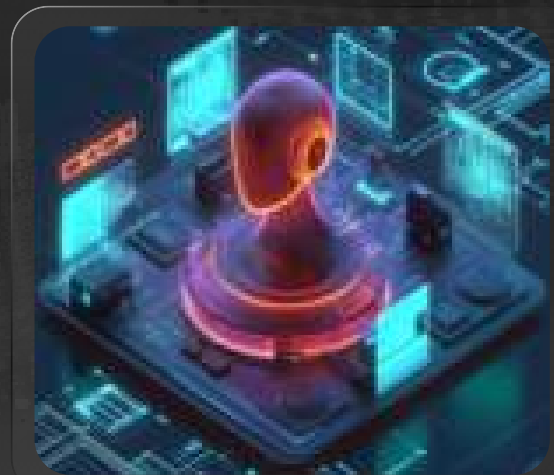


- Comprehensive model training pipeline
- Built-in general-purpose LLM foundation models
- Optimized for lightweight deployment

Medical Large Speech Model

ASR	TTS
Speech recognition	
Emotion sensing	
	High expressiveness
Comprehension of medical terminology	
Context-aware error correction	
Adaptive Adjustment and Integration of the dialog environment	

Large Models → AI Agents → Medical AI Agents



Large Models → AI Agents

- **Large Models:** Think critically -- human-like understanding and reasoning
- **ReAct:** Reasoning (Large Models) + Action (Agents)

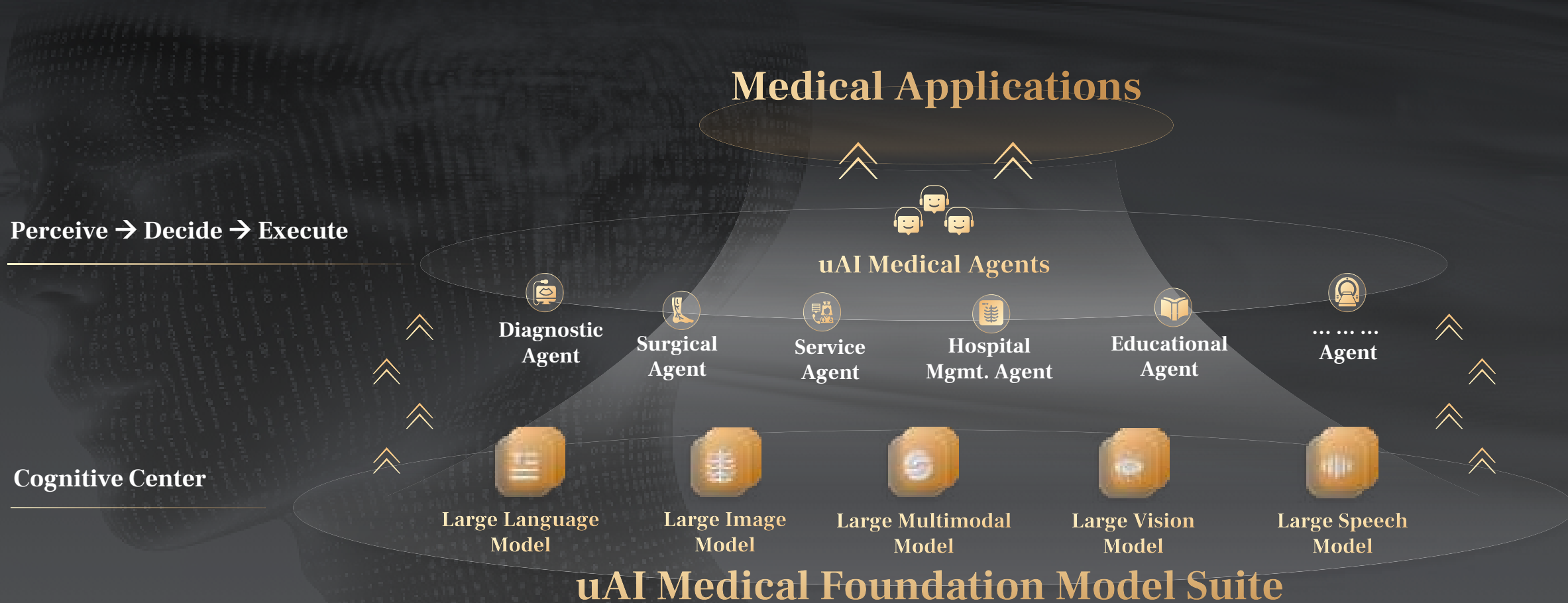
AI Agents → Medical AI Agents

Trained like a physician: from medical school to fellowships

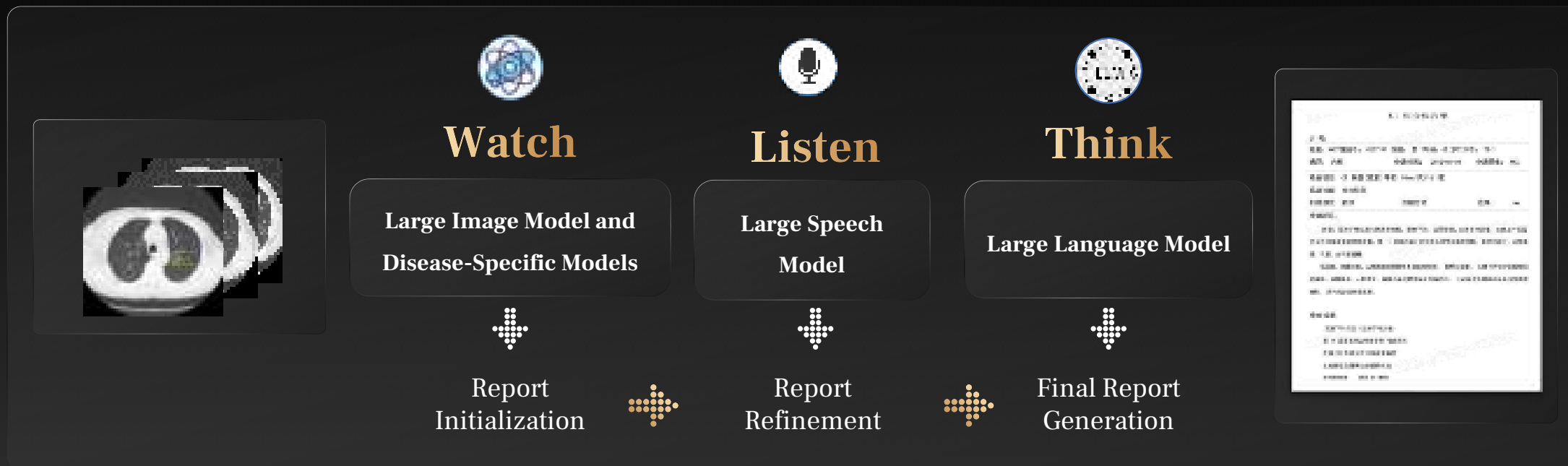
A Group of Specialized AI Agents >>> A General Super AI Agent

uAI Medical Agents

Multimodal | Adaptive | Self-Evolving



uAI Agents for Radiology



Large Image Model

- Multi-Disease Diagnosis Model: Identifies diverse abnormalities across multiple conditions in a single scan
- Disease-Specific Models: Precisely locate, quantify and characterize lesions in detail

Large Speech Model

- Automatically extracts key image findings from radiologist's speech
- Recognizes voice commands

Large Language Model

- Automatically summarizes imaging findings
- Conducts intelligent diagnostic reasoning
- Transform natural speech into precise medical terminology

uAI Agents for Radiology

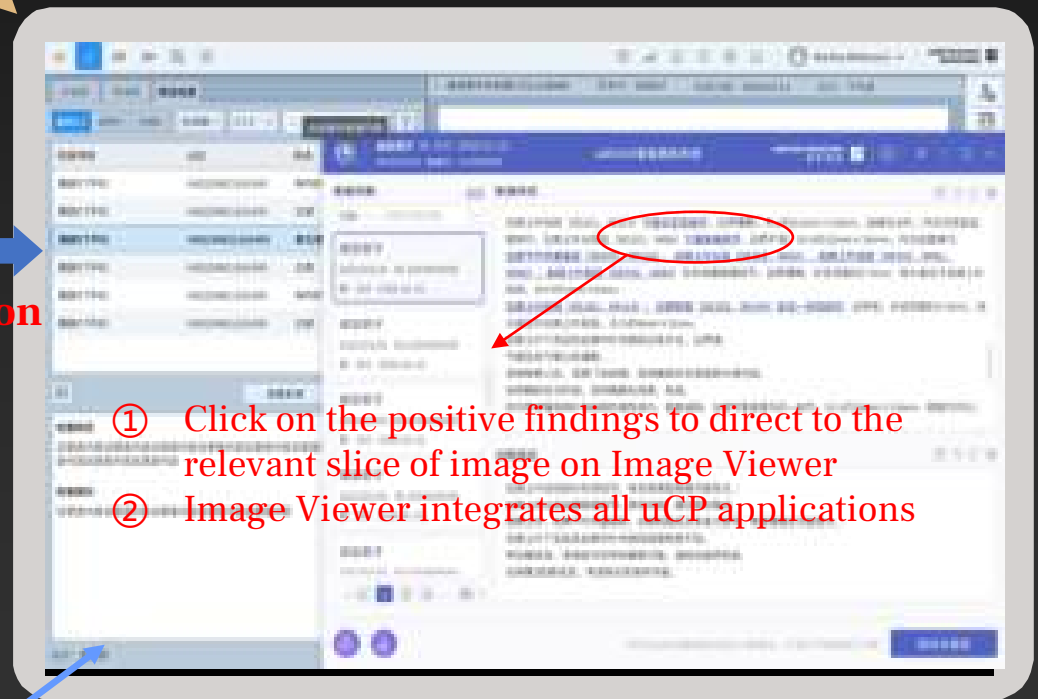
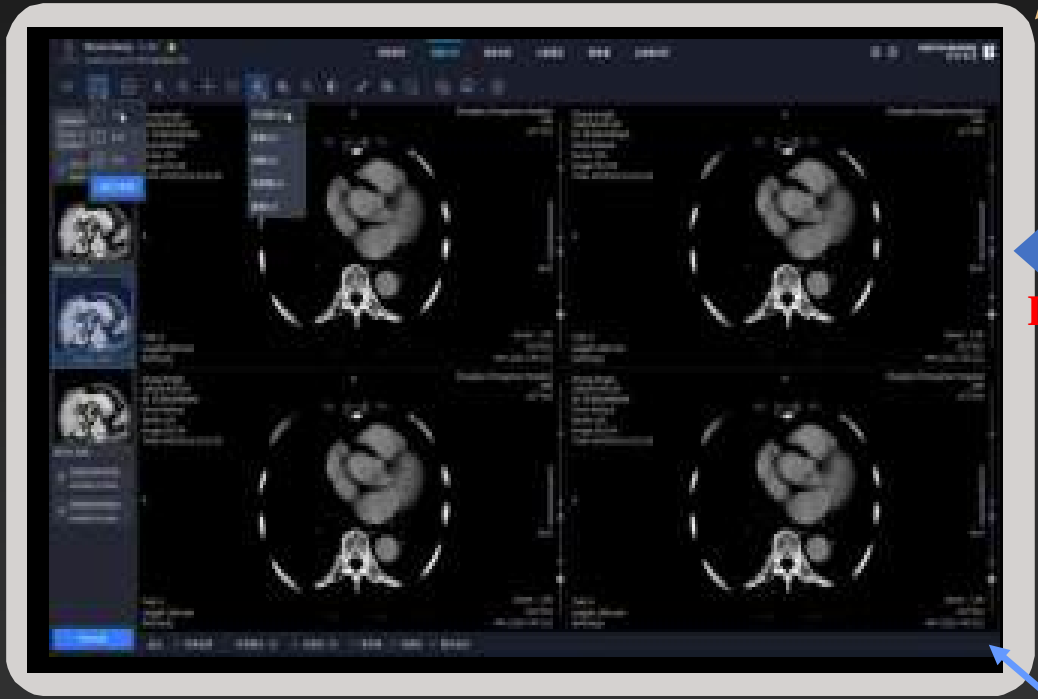
uAI Insight: Towards a Holistic AI-Native System

uAI Hub identifies relevant examinations. By clicking the icon, the *Reporting System* and the *Independent Image Viewer* are brought up simultaneously.

CT240626001
uAI Hub

uNEXUS Independent Image Viewer

uNEXUS Reporting System

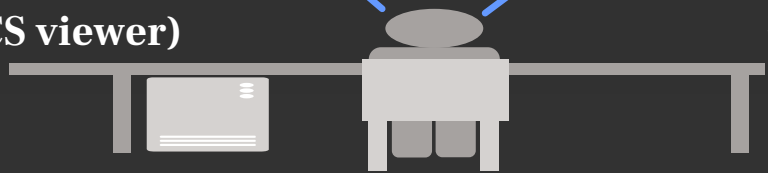


Interaction

- ① Click on the positive findings to direct to the relevant slice of image on Image Viewer
- ② Image Viewer integrates all uCP applications

Screen #1 (replacing PACS viewer)

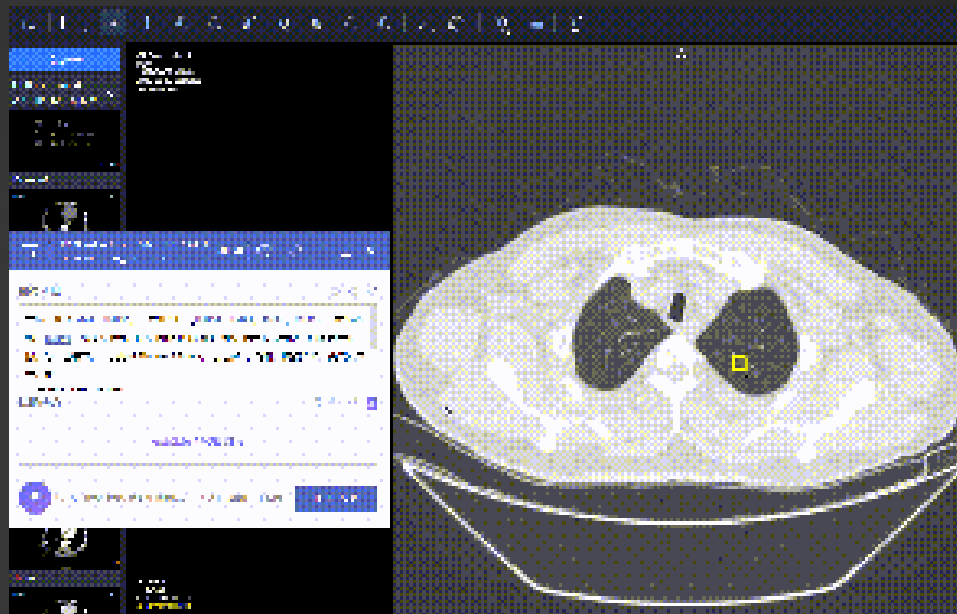
Screen #2 (replacing RIS Reporting)



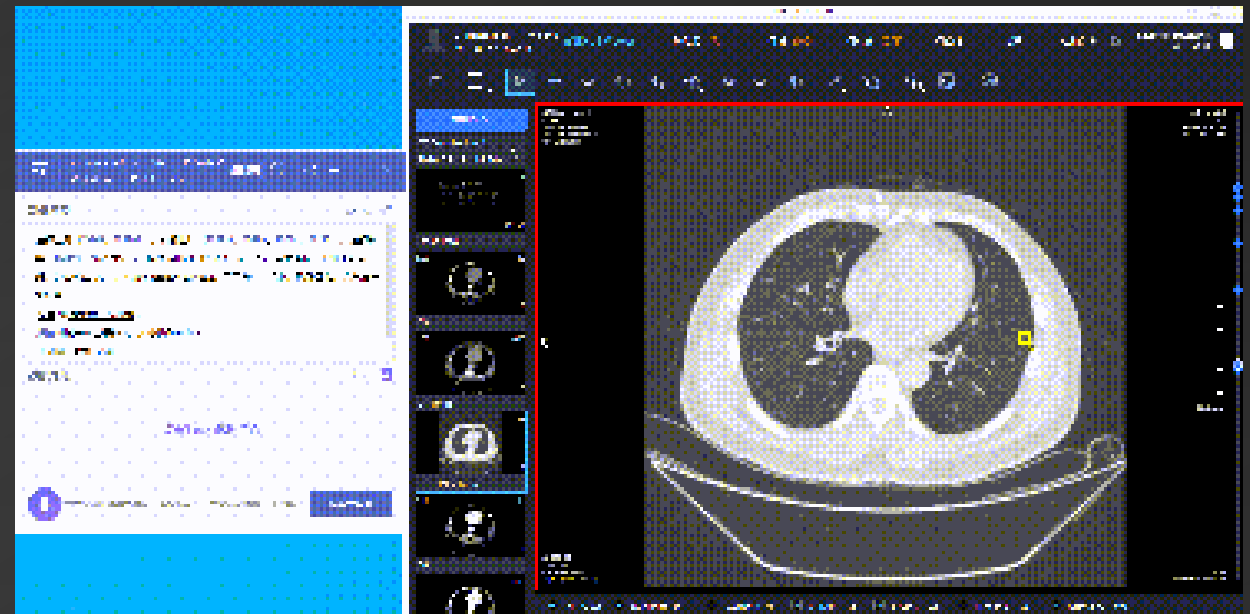
uAI Agents for Radiology

uAI Insight: Towards a Holistic AI-Native System

Interaction between reading and reporting

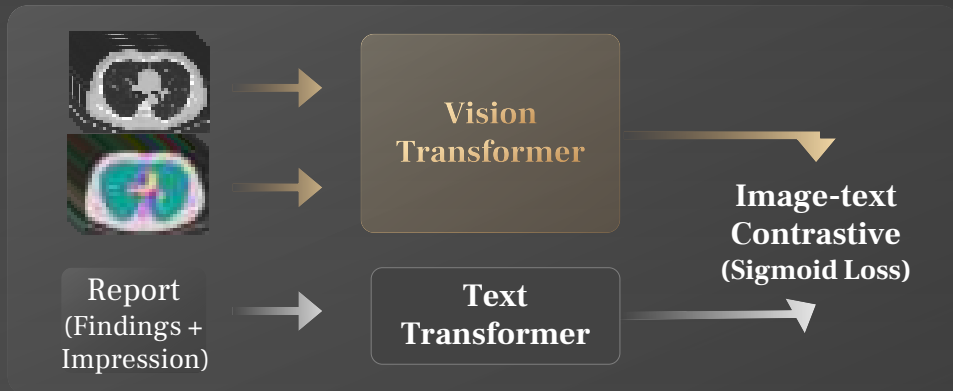


Automatic copying measurements to the report



uAI Agents for Radiology

uAI Insight: AI Agent for Chest CT Reporting (73 Findings)



Comprehensive Image Analysis

Traditional AI Models

Single disease, single task, with large amount of training and label data

MLLM

Learning from paired Image and reports to realize multiple disease detection from a single scan

Data

400,000 paired images and reports (from collaborating hospitals)
10,000 validation data (from 10 different hospitals)



Evaluation

0.92 averaged AUC

10% above current SOTA models



FINDINGS

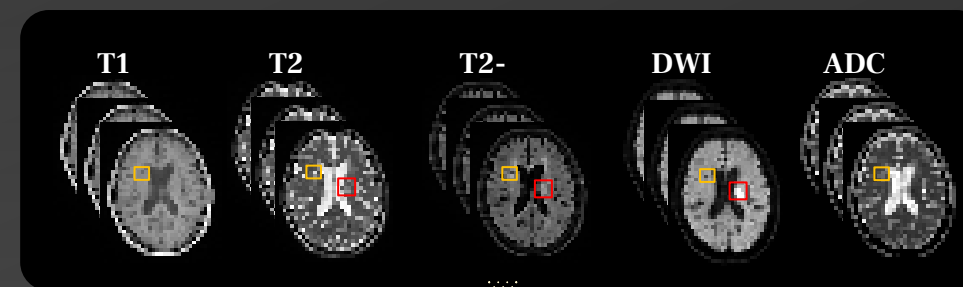
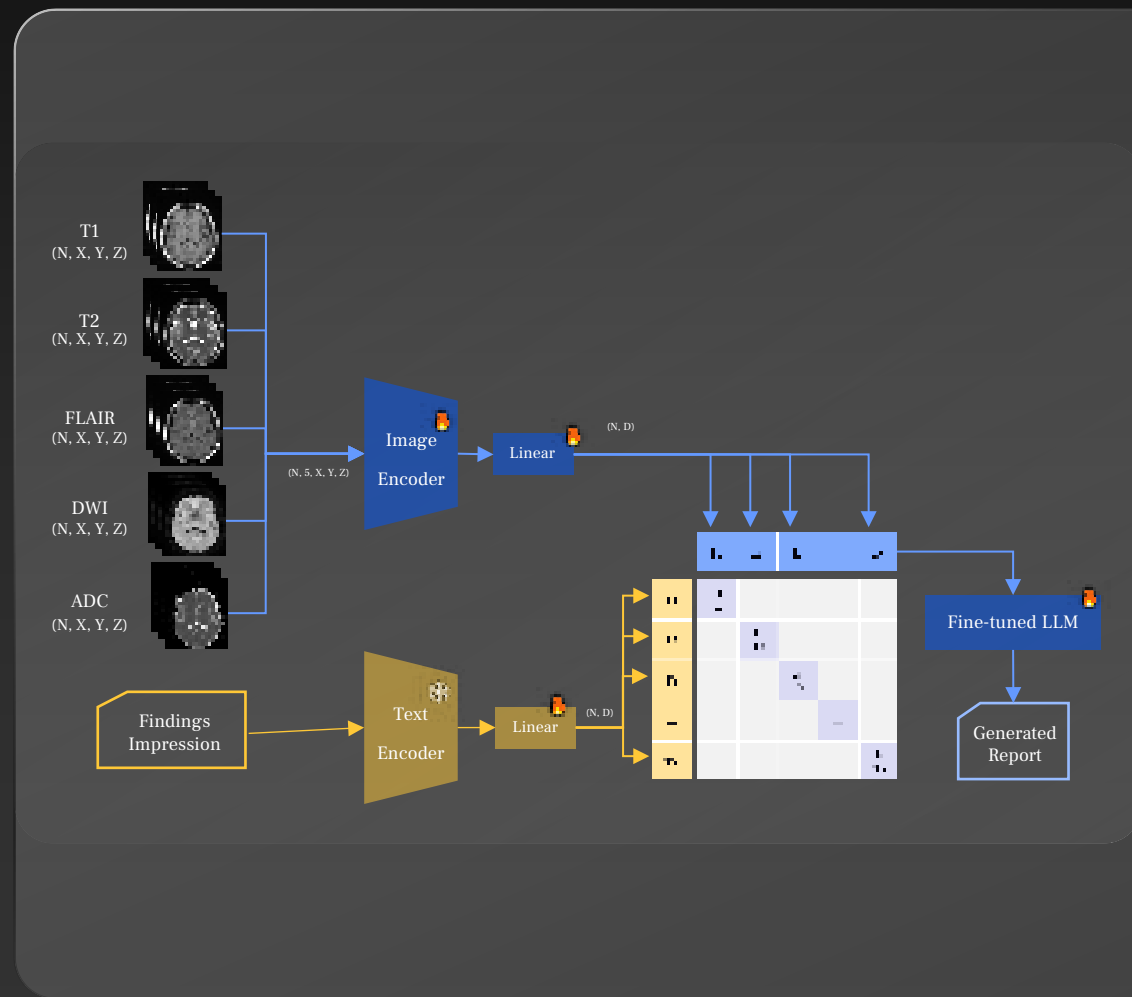
1. A 5.0 mm solid nodule is observed in the outer basal segment of the left lower lobe. Both lungs show a few punctate and linear fibrotic opacities.
2. There is local transparency in the left lower lobe, accompanied by small, round cavities and localized bronchiectasis.
3. No abnormalities are noted in the hilar regions of both lungs, and there are no abnormally enlarged lymph nodes within the mediastinum.
4. Calcification of the coronary artery walls is present, and the origin of the descending aorta is slightly thickened.
5. The shapes of ribs 8-11 on the right side and ribs 1-3, 5-6 on the left side are distorted.

IMPRESSION

1. A small nodule in the outer basal segment of the left lower lobe; recheck is recommended.
2. Minor signs of old lesions in both lungs.
3. Localized bronchiectasis and emphysema with bullae in the left lower lobe.
4. Calcification of the coronary artery walls, with slight thickening at the origin of the descending aorta.
5. Old fractures in ribs 8-11 on the right side and ribs 1-3, 5-6 on the left side.

uAI Agents for Radiology

uAI Insight: AI Agent for Brain MRI Reporting (32 Findings)



FINDINGS

1. Bilateral cerebral hemispheres are symmetrical, with natural gray-white matter contrast.
2. Patchy areas of slightly prolonged T1 and T2 signals are seen in the body of the corpus callosum, left thalamus, basal ganglia, and periventricular areas, high signals are shown on FLAIR and DWI, and equal to low signals on ADC.
3. Small patchy areas with prolonged T1 and T2 signals are seen in the bilateral thalami, basal ganglia, and periventricular areas, a central low signal and peripheral high signal are shown on FLAIR, and low signals on DWI.
4. Spotty and patchy areas with equal T1 and slightly prolonged T2 signals are seen in the pons, subcortical regions of the bilateral frontal and parietal lobes, centrum semiovale, and periventricular white matter, high signals are shown on FLAIR and equal signals on DWI.
5. Supratentorial ventricular system is mildly enlarged, with widened and deepened sulci, fissures, and cisterns. The midline structures are centrally located.

IMPRESSION

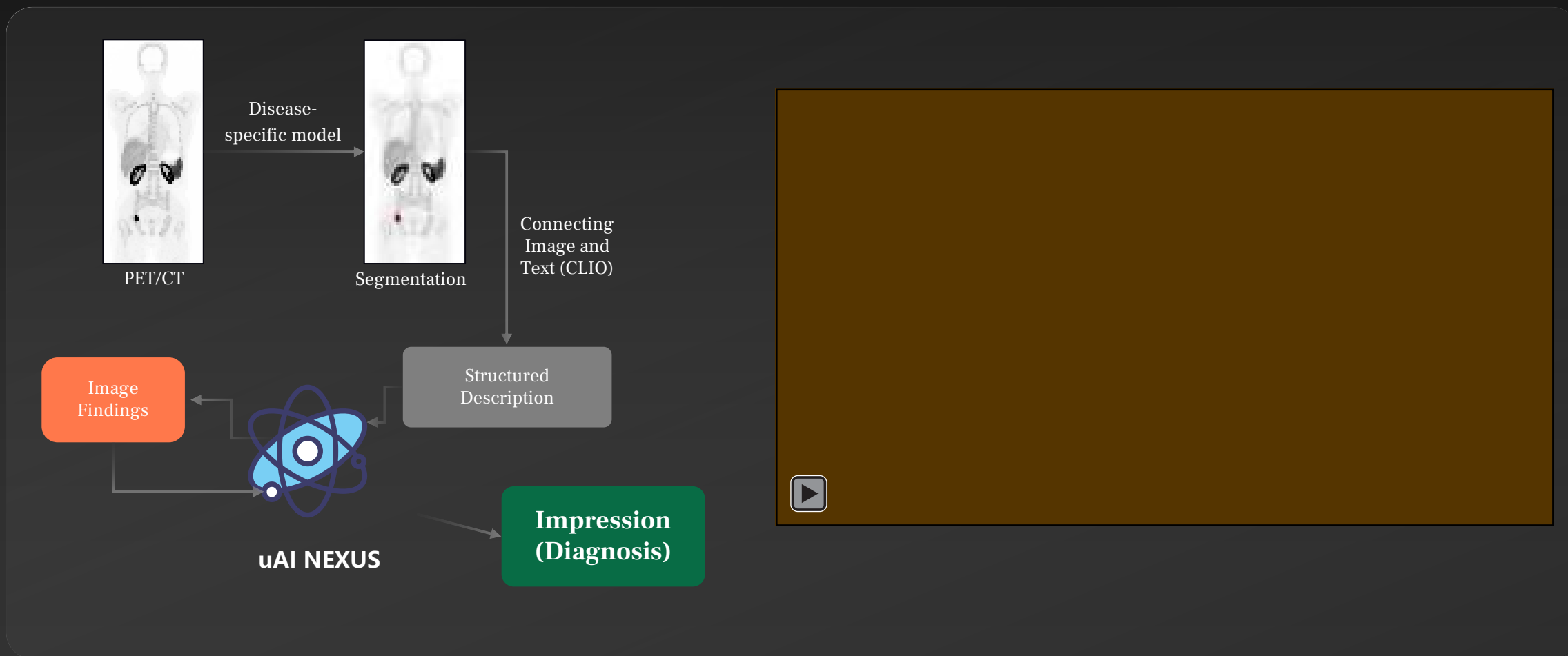
1. Acute to subacute infarction in the left thalamus, basal ganglia, and periventricular area.
2. Multiple chronic infarcts in the bilateral thalami, basal ganglia, and periventricular areas.
3. Demyelination-like lesions in the white matter.
4. Brain atrophy.



uAI Agents for Nuclear Medicine

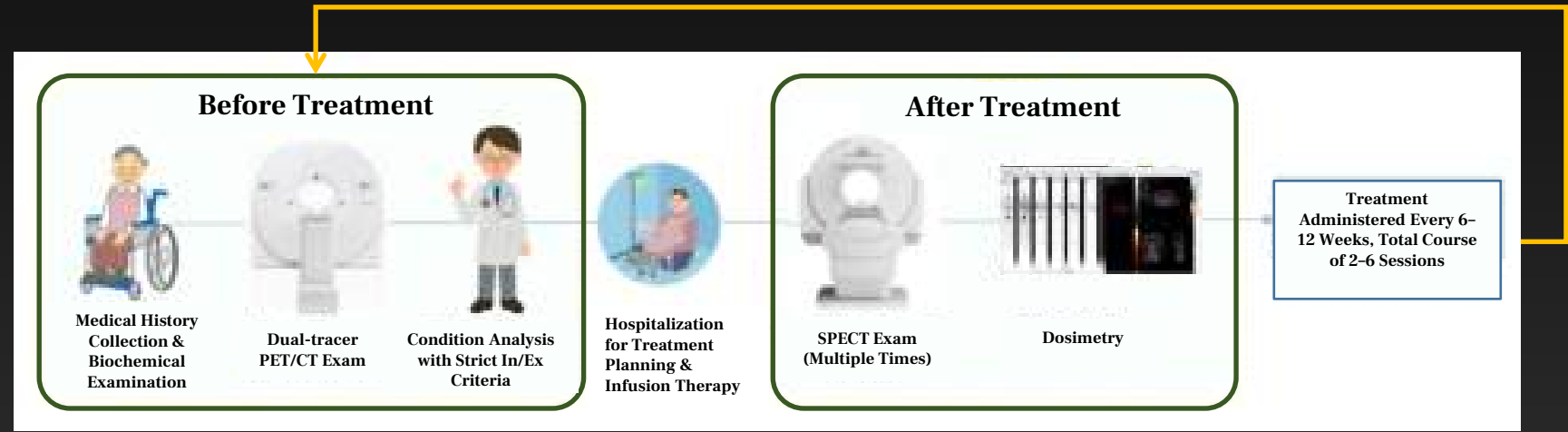
Intelligent Analysis and Fully Automatic Reporting System for PET/CT Oncology

Generative PET/CT Reporting



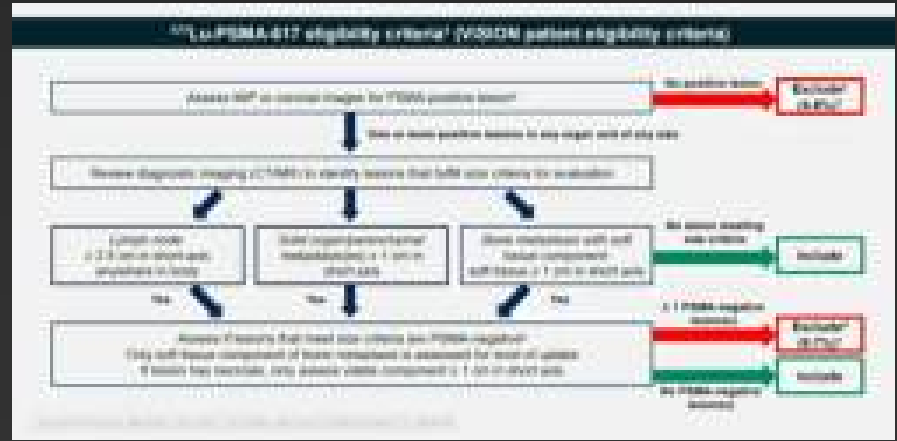
uAI Agents for Nuclear Medicine

Theranostics: AI-Enhanced Usability and Precision



AI Patient Inclusion and Exclusion Criteria

(Lesion Segmentation, Dual-Tracer Comparison, AI-Assisted Medical History Interpretation)



AI Tumor Heterogeneity Analysis

(Lesion Segmentation, Comparison)



AI Dosimetry

(Lesion/Organ Segmentation, AI-Accelerated Monte-Carlo)



uAI Agents for Surgery

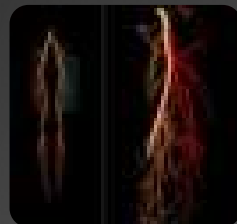
Goggle-Free Immersive Visualization

Harness Multimodal Data — Video, Voice, and Imaging
in Real-World Surgical Applications



uAI Vision: Visual Perception

Digital Twin of the
Operating Room
Real-time Capture



uAI Avatar: Command Understanding

Precise Intent Recognition
High-fidelity Interaction



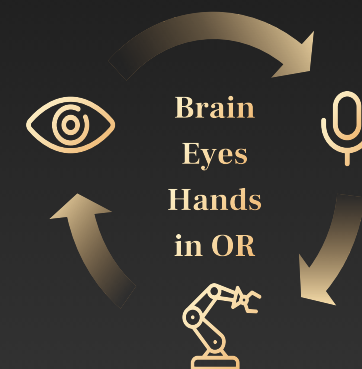
uAI AVATAR

uAI MERITS: Action Execution

Visualized Medical Imaging
Accurate Identification and
Handover of Surgical
Instruments



uAI MERITS



uAI Agents for Ultrasound

Unified Scanning, Diagnosis, Reporting, and Data Management



uAI Agents for EMR

Medical report generation with one click for smarter, faster documentation

Voice-Based Consultation Note Generation

- Convert physician-patient dialogue into unstructured text
- Identify and extract key medical information
- Generate structured report

Physician-Patient Dialogue



Admission Note



- Intelligently generate patient admission notes from physician-patient conversations, electronic reports, and other relevant data
- Directly integrated the notes into EMR system



First Progress Note (SOAP)

Subjective

Objective

Assessment

Key Clinical Features
Diagnosis and Supporting Evidence
Differential Diagnosis

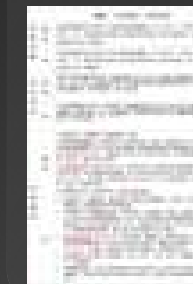
Plan

Clinical Guidelines, EBM, etc

Utilize large model's strong capabilities in summarization and reasoning to write the First Progress Note with a single click

Discharge Summary

Patient Information	Admission Details
Dianogsis	Clinical Summary
Procedure Performed	Lab/Imaging Results
Medications	Discharge Status
Follow-up Plan	Patient Education

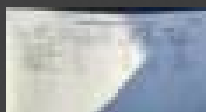


Generate complete discharge summary based on all records

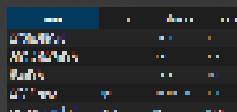
Extraction and Structuring Paper-based Medical Reports

Identify various common paper-based medical reports based on Semantic Structured Recognition (SSR) technology

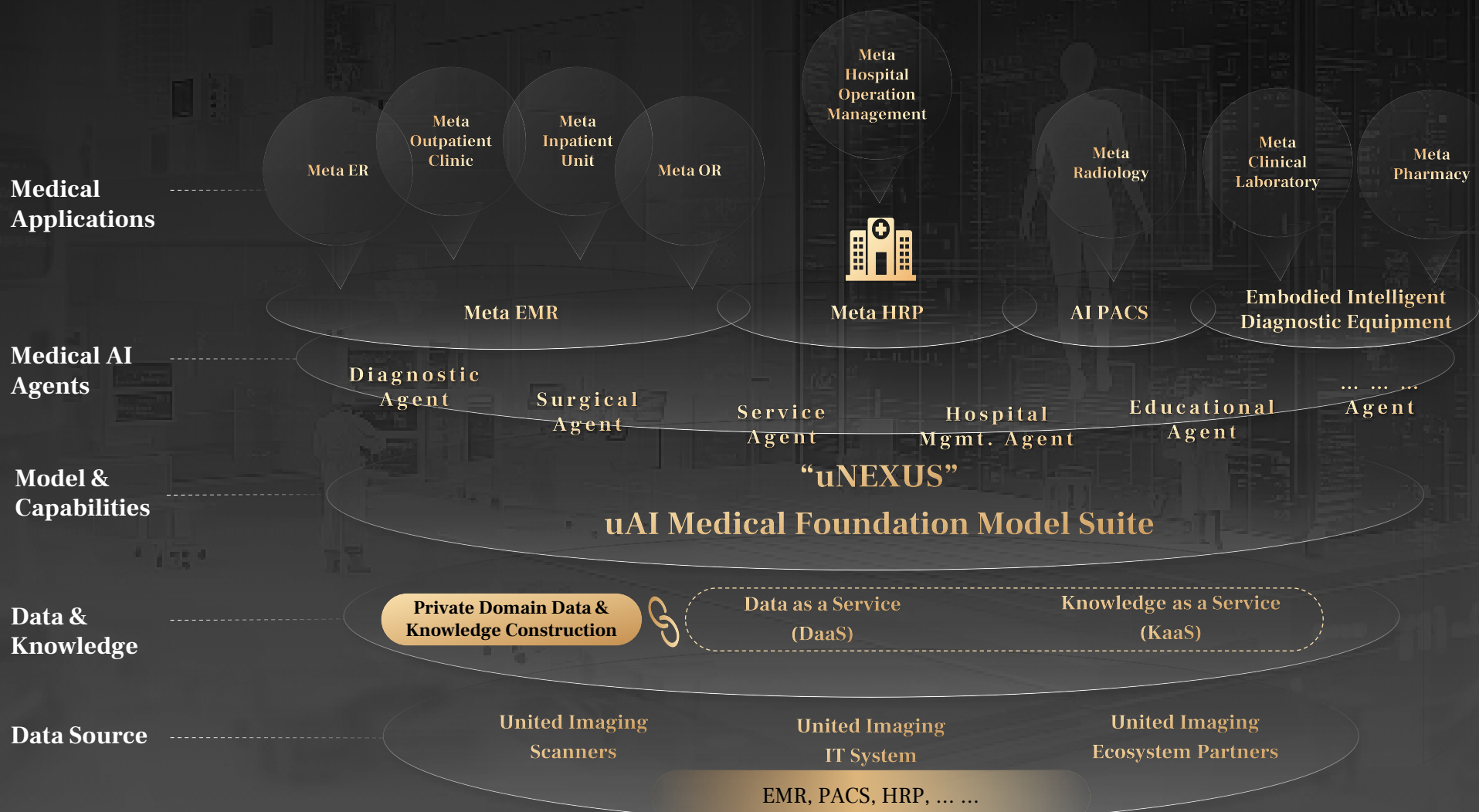
SSR and Layout Analysis



Form Extraction



uAI Vision for Meta-Hospital



The "flywheel cycle" of data production and agent applications achieves spiral self-evolution.



uAI Solutions Deployed in China

AI Portals

15

Total AI
Applications

100+

AI-Assisted Clinical
Applications

60+

AI-Assisted clinical applications deployed in China:

3,000+ Hospitals



uAI International Collaboration Platform



Breakthrough in Global Market



Regulatory Clearance



CE



FDA



国家药品监督管理局

National Medical Products Administration

Innovation & Impact

Number of Patents

Granted

400+
(119 Int'l)

Submitted

900+

Accumulated Scientific Research Achievements

Total Articles published

2,000+

Co-authored with Physicians

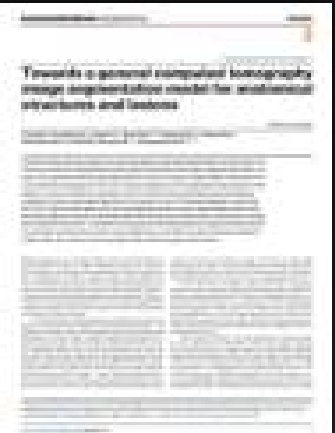
550+

Total citations

200,000+



Nature Medicine
2024



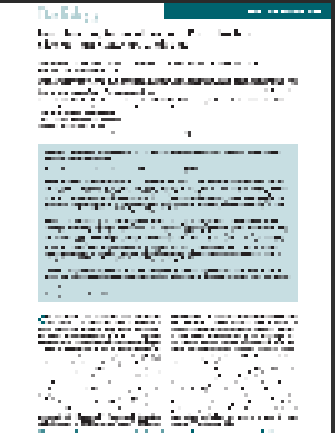
Communications Engineering
2024



Cell Reports Medicine
2023



Medical Image Analysis
2023



Radiology
2022



Nature Communications
2022

Exemplary Domestic Collaborations

Shanghai Sixth People's Affiliated Hospital of SHJT University



A yellow box changed our viewing habits

The CT rib fracture AI product from United Imaging Intelligence features use-friendly interfaces and is designed to be easily navigable, significantly reducing the workload for doctors reviewing patient scans. Moreover, the products boasts a high degree of accuracy in identifying subtle fractures, including occult fractures, thus reducing the risk of missed or misdiagnoses.

Zhongshan Hospital Affiliated to Fudan University



“Zhongshan Model”: AI+5G facilitates collaborative innovation in a hospital alliance

Zhongshan Hospital and United Imaging Group have partnered to create an innovation portal, powered by AI and 5G technologies, that promotes effective collaboration between medical professionals and scientific innovators. This center has successfully completed over 200,000 cases using AI-assisted imaging diagnosis and more than 100,000 cases of quality control. Together, they have constructed an innovative ecosystem that optimizes the medical alliance and scientific innovation.

Huashan Hospital Affiliated to Fudan University



A new era of digital / AI transformation for neuro- oncological pathology

By integrating AI into the clinical workflow, AI-aided diagnosis has effectively addressed the gap in the medical field. One example is the smart brain tumor evaluation system, which has substantially increased the diagnostic accuracy and efficiency of postoperative pathologists, leading to more precise treatment of brain tumors. This successful collaboration demonstrates the potential and value of cross-field cooperation, as we continue to explore the possibilities of AI technology in healthcare.

Exemplary International Collaborations

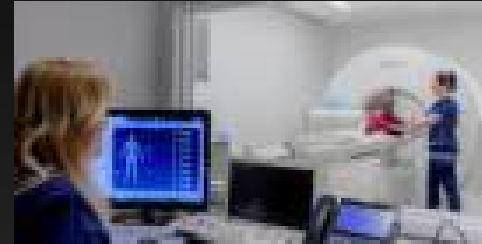
Washington University in St. Louis



Revolutionizing Cardiac Imaging with Automated CMR Workflows

Since 2019, UII has collaborated with Washington University in St. Louis. This partnership focuses on automating CMR workflows to simplify MRI acquisition and reporting, elevating patient care. Dr. Lanza values the AI-driven ease and depth of analysis provided by UII's software, which has supported key publications and presentations at ECR and ISMRM on automated cardiac function and strain analysis.

AMRIC



Streamlining Workflows with Intelligent, User-Friendly AI

UII and AMRIC collaborate on clinical research utilizing the uAI Clinical Portal, which covers applications in MR brain imaging, CCTA, CT calcium scoring, pulmonary nodule detection, MR prostate, bone mineral density, CSVD, and PET/CT. Dr. Aras commends AI-generated results are instantly accessible when cases are opened, effectively enhancing workflow efficiency.

Medical Institute Bayer



Faster Image Reconstruction with Automated Lesion Detection

Dr. Haris Huseinagić at MIB extensively uses our Coronary CTA. These features streamline his diagnostic workflow, significantly improving diagnostic accuracy and efficiency. He also appreciates the chest module, especially the inflammatory index, which offers valuable support in assessing patient conditions and further enhancing his clinical capabilities.

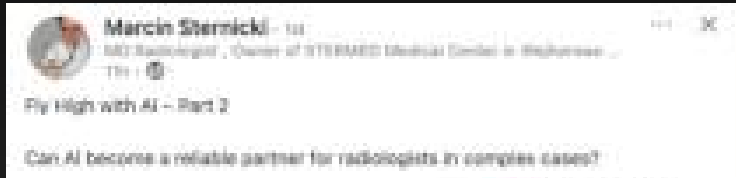
Wonju Severance Christian Hospital



Revolutionizing Cardiovascular Imaging with AI-driven Precision

Dr. Sung Min Ko highlights the practical value of uAI in cardiovascular imaging, including coronary stenosis detection and plaque analysis. uAI's cutting-edge features simplify complex tasks and have the potential to revolutionize clinical workflows.

A Testimonial from Marcin Sternick, MD - A uAI User



Welcome back to my series where I compare me with those of AI, using real cases from [STEREM](#)

A routine liver MRI revealed a small lesion in Seg 7r, hyperintense on T2, with no diffusion restriction hemangioma, although dynamic sequences did

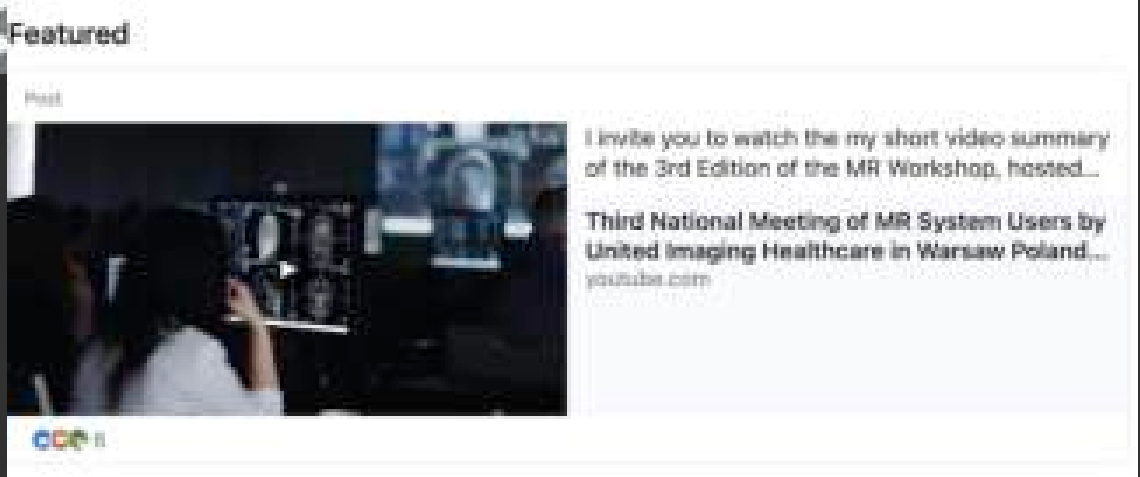
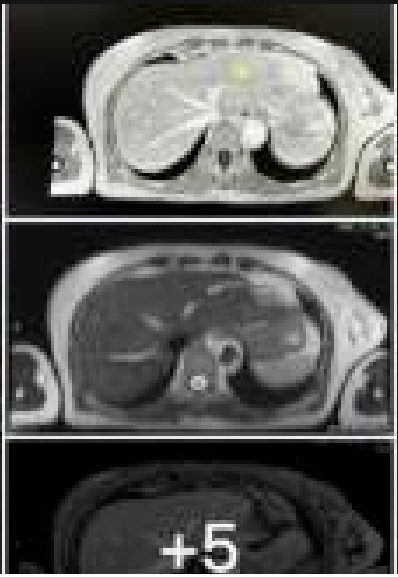
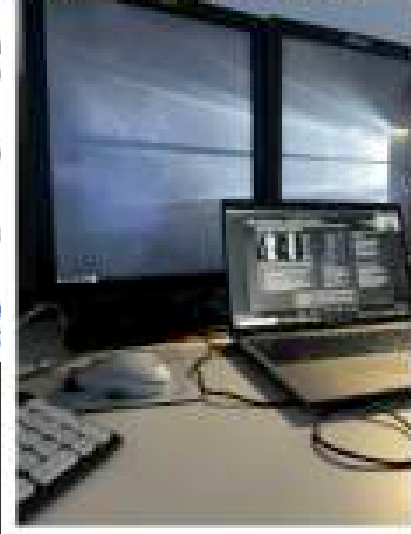
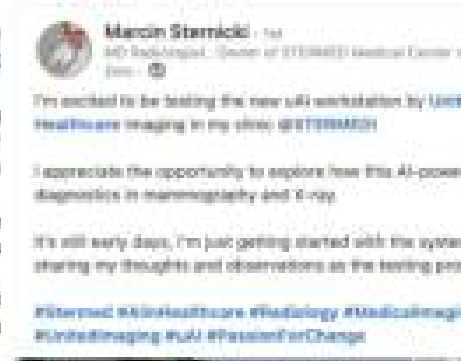
I ran the case through United Imaging Intelligen liver volume at 1285.98 cm³ and identified the s = 1.2 cm, confirming it as a hemangioma based advantage of AI? Metrics. While we don't usual AI does with precision. That's a huge step forward.

Once again, AI confirmed my findings. Not best because it supported the diagnosis with means for AI, making it 2.0 in this series.

But remember, this is not a competition. It's a c the patient.

Do you trust AI in your practice? Or do you still, know in the comment section below!

[#Sterem](#) [#FlyHighWithAI](#) [#Radiology](#) [#AIinW](#) [#Hemangioma](#) [#UnitedImaging](#) [#PatientForC](#)



+2

+5

PASSION for CHANGE