



065IC - Optimizing Clinical Workflow in Urology: Leveraging KPIs and AI

Monday, May 18

Faculty

Pablo J. Santamaria, MD

Vannita Simma-Chiang, MD

Waleed A. Hassen, MD

Mark Painter, CEO

David Canes, MD

ATTENTION: You are prohibited from using or uploading content you accessed through this activity into external applications, bots, software, or websites, including those using artificial intelligence technologies and infrastructure, including deep learning, machine learning and large language models and generative AI.



AUA★2026

Washington, DC

MAY 15-18

0651C | Optimizing Clinical Workflow in Urology: Leveraging KPIs and AI

COURSE DIRECTORS

Pablo Santamaria, MD

Vannita Simma-Chiang, MD

COURSE FACULTY

Waleed Hassen, MD

Mark N. Painter,
CPMA, MBS

David Canes, MD



OVERVIEW

Urology practices face increasing pressure to deliver high-quality patient care while improving efficiency, access, and financial performance. This interactive course will explore how data-driven metrics (KPIs) and artificial intelligence (AI) can be strategically leveraged to optimize clinical workflows, reduce variability, and support decision-making across the care continuum.

Through expert presentations and real-world examples, participants will learn practical approaches to measuring what matters, identifying workflow inefficiencies, and using AI tools to enhance productivity, documentation, patient engagement, and outcomes.



KEY THEMES

- **KPI Strategy:** Defining and implementing meaningful metrics to drive performance and quality.
- **Workflow Optimization:** Identifying bottlenecks and applying Lean and process improvement principles.
- **AI Applications in Urology:** Practical use cases for AI in documentation, scheduling, triage, clinical decision support, and patient communication.
- **Data to Action:** Turning insights into measurable improvements in efficiency, patient experience, and outcomes.



KEY CHALLENGES

- **Data Overload:** Managing disparate data sources and focusing on the right metrics.
- **Integration:** Successfully adopting AI tools within existing EHR and practice systems.
- **Change Management:** Engaging clinicians and staff in workflow transformation and fostering adoption.
- **Ethics & Governance:** Ensuring responsible, transparent, and compliant use of AI and data.



KEY TAKEAWAYS

- ✓ Build and track KPIs that align with clinical, operational, and financial goals.
- ✓ Identify workflow inefficiencies and implement data-driven solutions.
- ✓ Evaluate and responsibly integrate AI to enhance productivity and patient care.
- ✓ Apply practical strategies that can be implemented in your practice starting tomorrow.



CONCLUSION

The future of urology depends on our ability to harness data and technology without losing sight of the patient. By combining thoughtful KPI measurement with intelligent AI applications, practices can improve efficiency, reduce burnout, and create a better experience for patients and care teams alike.

Join us to learn actionable strategies and tools you can bring back to your practice for immediate impact.

***Measure what matters. Improve what you measure.
Transform urology together.***

AUA **2026** **Washington, DC** **MAY 15-18**

0651C
Optimizing Clinical Workflow in Urology: Leveraging KPIs and AI

Monday, May 18, 2026
10:00am – 12:00pm

Course Director: Pablo Santamaria, MD and Vannita Simma-Chiang, MD
Course Faculty: Waleed Hassen, MD, Mark Painter, CEO, David Canes, MD

1

Where is everyone from?
(city, state, country, institution)

2

AUA-2026
Washington, DC MAY 15-18

ARS Question: Brainstorming

3

AUA-2026
Washington, DC MAY 15-18

Professional
Background?



A. Clinical (MD, DO, APP, etc)

B. Business (Director, manager, etc)

C. Both

D. None of the above

4

AUA-2026
Washington, DC

MAY 15-18

ARS Question: Multiple choice (no right answer)

5

AUA-2026
Washington, DC

MAY 15-18

Which workflow causes the most frustration in your practice?



- A. Documentation
- B. Prior Authorizations
- C. Patient messaging/Inbox
- D. Scheduling
- E. Coding/Billing

6

AUA-2026
Washington, DC MAY 15-18

ARS Question: Multiple choice (no right answer)

7

AUA-2026
Washington, DC MAY 15-18

Does your practice currently use any AI tools?

- A. Yes, widely deployed
- B. Testing/piloting
- C. Considering adoption
- D. Not using AI

8

ARS Question: Multiple choice (no right answer)

9

What AI tools have you experimented with?

https://in.linkedin.com/in/amit-kumar-pandey-2a0293246?trk=public_post_feed-actor-name



10

AUA-2026
Washington, DC

MAY 15-18

ARS Question: Brainstorming

AUA
2026
Washington, DC

MAY 15-18

0651C

**Optimizing Clinical Workflow in
Urology: Leveraging KPIs and AI**

Monday, May 18, 2026
10:00am – 12:00pm

Course Director:
Course Faculty:

Pablo Santamaria, MD and Vannita Simma-Chiang, MD
Waleed Hassen, MD, Mark Painter, CEO, David Canes, MD

AUA 2026
 Washington, DC MAY 15-18

High Reliability Organizations



AUA 2026
Washington, DC

MAY 15-18



What to Measure?

Objectives	Key Results	COS Goals	2024 Target				
Make CCAD the Best Place to Receive Care	Create Patient Promoters	Likelihood to recommend (Inpatient)	P.O.C.V Helpfulness	≥72	71.9 - 68.4	≤68.3	
		Likelihood to recommend (Inpatient)	Speed of discharge	55%	54.9 - 52.2	≤52.1	
		Likelihood to recommend (Outpatient)	Safe and timely dispensation (wait time) in Pharmacy (2022 vs 2023)	≤15 mins	15.1-16.4 min	>=16.5 mins	
		Likelihood to recommend (Outpatient)	Physician communication	79%	78.9 - 75	≤74.9	
		Likelihood to recommend (Emergency)	Waiting time to see doctor	≥62.3	62.2 - 59.2	≤59.1	
		Likelihood to recommend (Emergency)	Physician Courtesy	≥81.7	81.6 - 77.6	≤77.5	
	Pursue Zero Harm	Likelihood to recommend	Teamwork	≥81.2	81.1 - 77.1	≤77	
		Sepsis	Sepsis antibiotics order set	≥ 90%	89.9-80 %	<80 %	
		Sepsis	1-hour Antibiotics timeliness	≥ 90%	89.9-80 %	<80%	
		M&M	Case reviews	100% M&M reviews to be conducted and completed by the next review meeting	91-100%	<90.9%	
		Serious safety events	Total Safety Event Reporting per adjusted patient days	≥27/10,000 APD	25-27/10,000 APD	<25/10,000 APD	
		Healthcare Acquired Conditions	Respiratory Therapy: Total Medical Device related HAPIs (2022 vs 2023)	< 9	9-11.0	>11	
		Healthcare Acquired Conditions	Imaging Techs: Maintain ≤ 0.4 % of IV contrast injections resulting in extravasation	≤ 0.4 %	≤0.25 - 0.3%	> 0.35%	
		Healthcare Acquired Conditions	Rehab: Falls with injury (2022 vs 2023)	≤1		>1	
	Improve Access to Care	New patients offered within 7 days	Decrease unused slots (never booked)	≤ 7%	7.1-10%	>10%	
		Ease of getting care	Ability to get desired appt	50.8	50.7 - 48.3	≤48.2	
	Make CCAD a Sustainable Organization	Increase Productivity	New patients offered within 7 days	Decrease no show rate	< 25%	25.1-27.5%	>27.5%
			Overall Allied Health Productivity	Productivity Index	>90% Productivity Index (weighted % to target)	80-89.9%	<80%
Make CCAD the Best Place to Work in Healthcare	Drive Engagement	Overall Physician Productivity (E&Ms Only)	E&Ms	≥=65	61-64.9%	<61%	
		AI/Innovation	Implement at least 1 AI/ML model	1		<1	
Advance Healthcare in the UAE	Personalised Medicine	Caregiver Recognition (through survey)	Breakfast Recognition, Values Award	1/Quarterly		<1	
		Drive Engagement	COS Breakfast MD appreciation dinner	1/Quarterly 1/year		<1	
	Promote Emiratisation	Implement genomics based protocols	Implementation of 2 protocols (oncology / NI)	2	1	0	
Promote Emiratisation	Emiratization %age (non-clinical)	Emiratization %age (clinical)	Increase under COS function	2% Increase	1.98%-2%	<1.98%	
				1% increase	0.9%-1%	<0.9%	

Strategy

Objectives

KPIs

AUA 2026

Washington, DC MAY 15-18

LEADERSHIP SAFETY HUDDLE



CULTURE OF SAFETY Chasing Zero Harm

DAYS SINCE LAST		MTD	YTD
1	Harm Events	20	50
8	Inpatient: Fall with Injury	6	8
77	Ambulatory: Fall with Injury	0	0
3	HAPI	11	17
48	CLABSI	0	1
116	CAUTI	0	0
3	Patient Identification	6	9
% COMPLIANCE		MTD	YTD
89%	Plan of Care Visits	90%	90%

Converting Strategy into Measurable Outcome

Institute: All | Department: All | Provider Name: All | Year: 2024 | Month: December | Actual | YTD

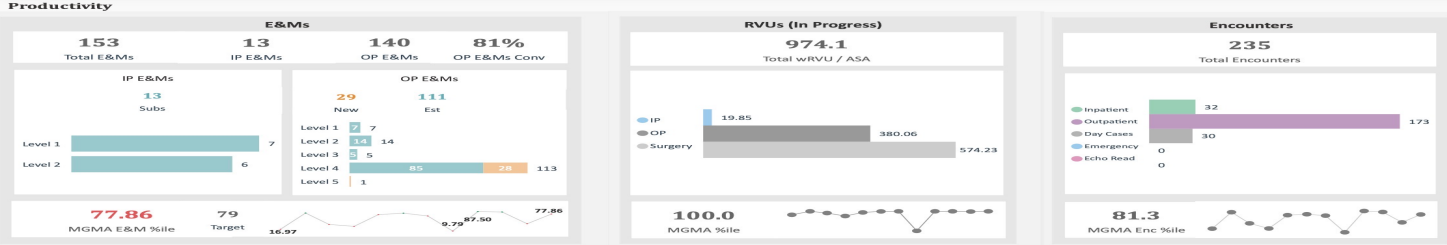
Physician: **Waleed Hassen** | Date of Joining: **Sunday, August 31, 2014**
 Position: **Department Chair, Urology** | MGMA Specialty: **Urology**

Outage (YTD) : Source (Kronos) (*when leaves span weekends, weekend days are included for shift depts of Hospital Medicine, Critical Care and Anesthesia)

Annual Leave	Professional Development	Sick Leaves	Other Leaves
			0.0

Schedule : Source (Amion / Epic)

Admin Days	Inpatient Days	Outpatient Days	Procedure Days	Academics	Offsite
0.9	0.0	6.9	9.0	0.0	0.0



Documentation Metrics

Inbasket Messages (YTD)

Message Type Group	2 days or less	2 to 7 Days	(7+) Days	Yet to Compl > 7 Days	Total Msg Count
Signatures	2791	18	0	0	2809
Results	2540	192	46	1	2779
Patient Related	1867	31	8	0	1906
Incomplete Records	1054	19	0	1	1074
Other	41	18	14	0	73
Total	8293	278	68	2	8641

Note Completion (Compliance Rate Target : 90%)

Note Type	Within (Hrs)	Total Notes	Compliant	Compliance Rate
Discharge Summary	48			
H&P	24	3	3	100.0%
H&P (View-Only)	24	14	0	0.0%
Interval H&P Note	24	15	0	0.0%

Open Encounters (YTD)

<7 Days	Total Encs
5	5

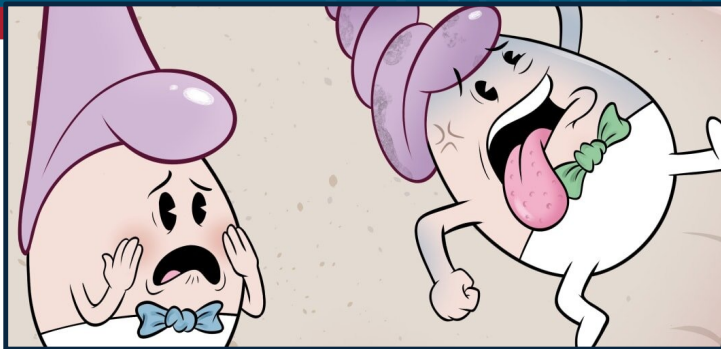


Finance Metrics (Lag of 4 months out of Last 16 months)

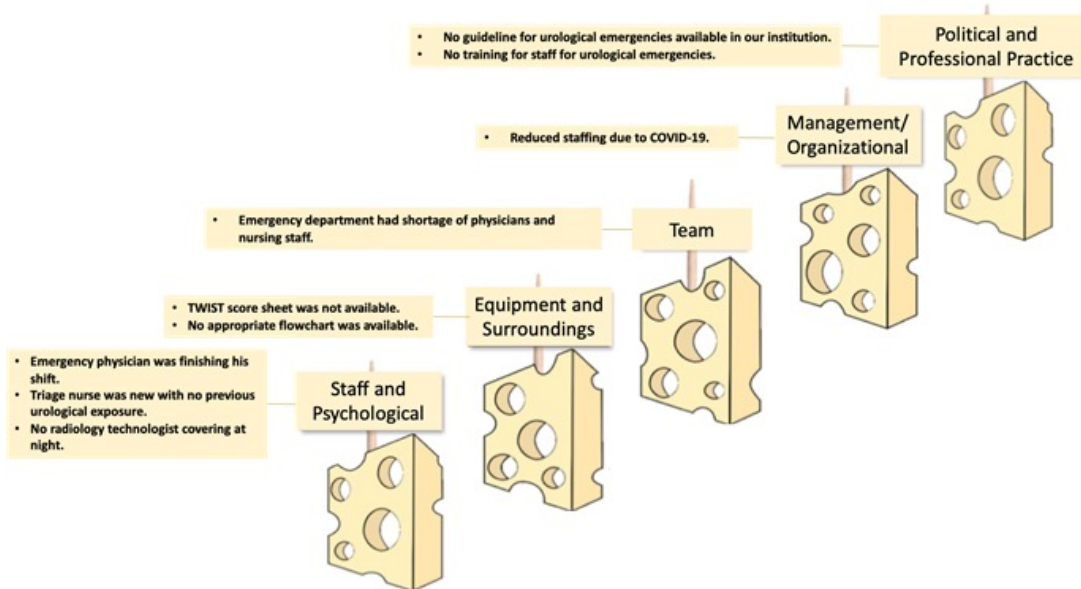
*Outpatient Medical Necessity Denials Only (Target : 10%)

Processed Amt	Paid Amt	Denied Amt	Denial Rate
4,945,033.22	3,788,168.49	1,156,864.73	23.4%





Swiss Cheese Model Safety Incidents

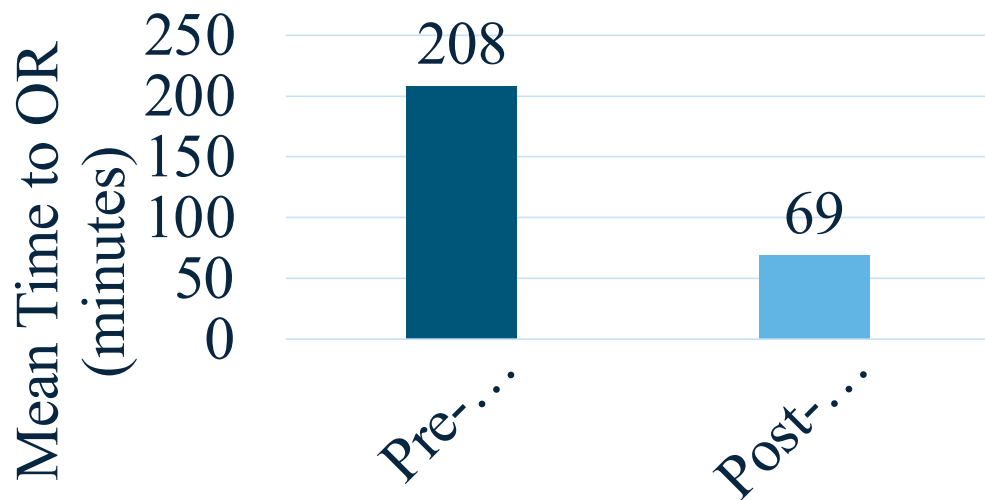


- Code Torsion Instituted
- KPI: Door to OR < 60 min
- Quality review along with STEMI and Stroke Alerts

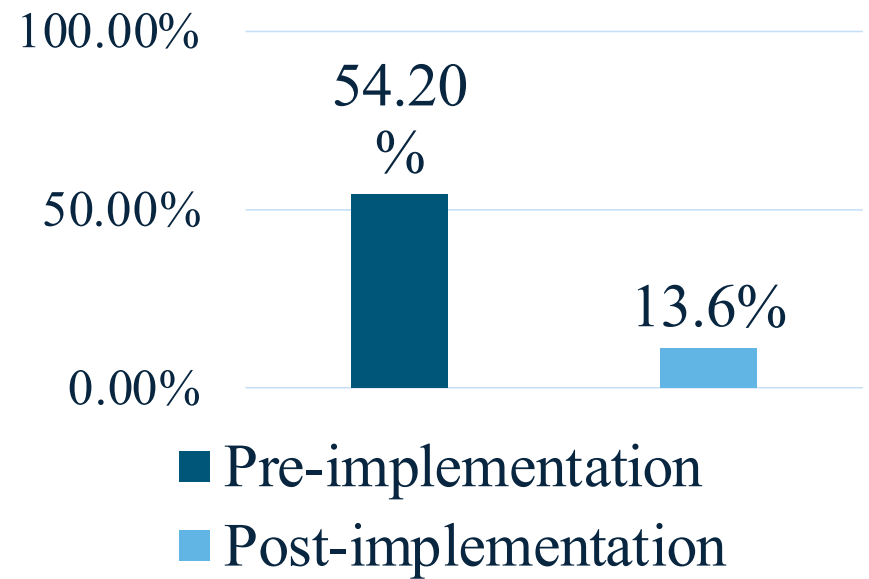
Age	Description	Time of ED presentation	Time of assessment by ED Physician	Time of Torsion Vocera	Risk	Time of arrival of Urology to ED (immediate or within 30 minutes from urgent broadcast)	Time of Ultrasound within 15 minutes	Testicular torsion order set activated	Time patient transferred to OR	Time OR & Anesthesiology teams arrived to OR	Time patient arrived in OR	Time of Time Out	Disposition	Gaps & Opportunities	Feedback
20	Patient presented to ED for pain in R Testicle, reoccurred from the previous day at 2000 hours after horse riding. No previous episodes.	19:36	20:18	20:19	High	20:58	no	Yes	21:12	21:15	21:12	22:33	Admitted to Level 14 then discharged 12/09/2023	Delay in all touch points	F/up with ED Quality Officer



Time to OR

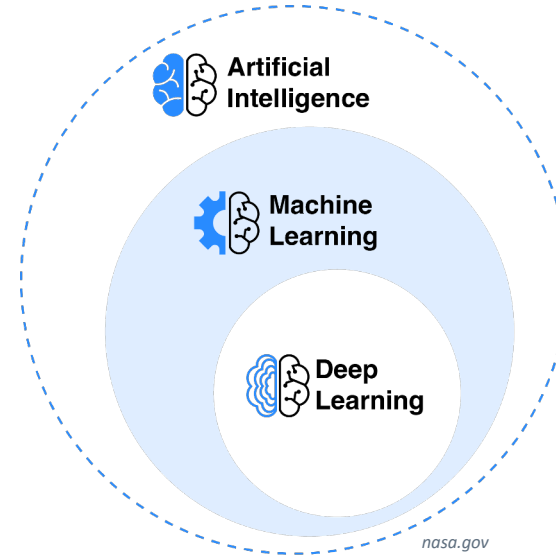


Orchiectomy



Artificial Intelligence

Branch of computer science dedicated to creating intelligent machines or workflows that can perform tasks traditionally requiring human intelligence and input.



Predictive AI

- Learns patterns from historical clinical data
- Classifies, scores, and forecasts outcomes
- Output: a risk score or clinical flag
 - Examples:
 - Sepsis alerts, Fall risk
 - No-show model
 - Imaging AI

Generative AI

- Creates new content from natural language prompts
- Drafts, summarises, translates, and answers queries
- Examples:
 - Copilot
 - Epic in-basket reply
 - Ambient scribing
- Output: a document, note, or message

Agentic AI

- Proactively sets goals and makes decisions
- Autonomously takes actions to complete complex workflows
- Examples:
 - Drafting a prior authorization, calling the company, submitting form and scheduling the patient

Applications of AI in Healthcare

Clinical Utility

- Diagnostic imaging
- Pathology AI: Gleason grading, tumour classification
- Surgical guidance and robotic-assisted procedures
- Remote monitoring and patient follow-up

Research

- Genomic and biomarker discovery
- Predictive modelling for disease recurrence
- Drug discovery and clinical trial optimisation
- AI-powered systematic review acceleration

Academics

- AI-assisted surgical skill assessment and training
- Automated feedback in simulation platforms
- Curriculum personalization using learning analytics

Operations

Revenue Cycle

- Claims/denial model
- Automated Medical Coding
- Prior authorization

Capacity & Flow

- Reducing No show rates
- Census forecast
- ED bed prediction
- Predictive discharge
- Case length accuracy for OR

Strategic and growth management

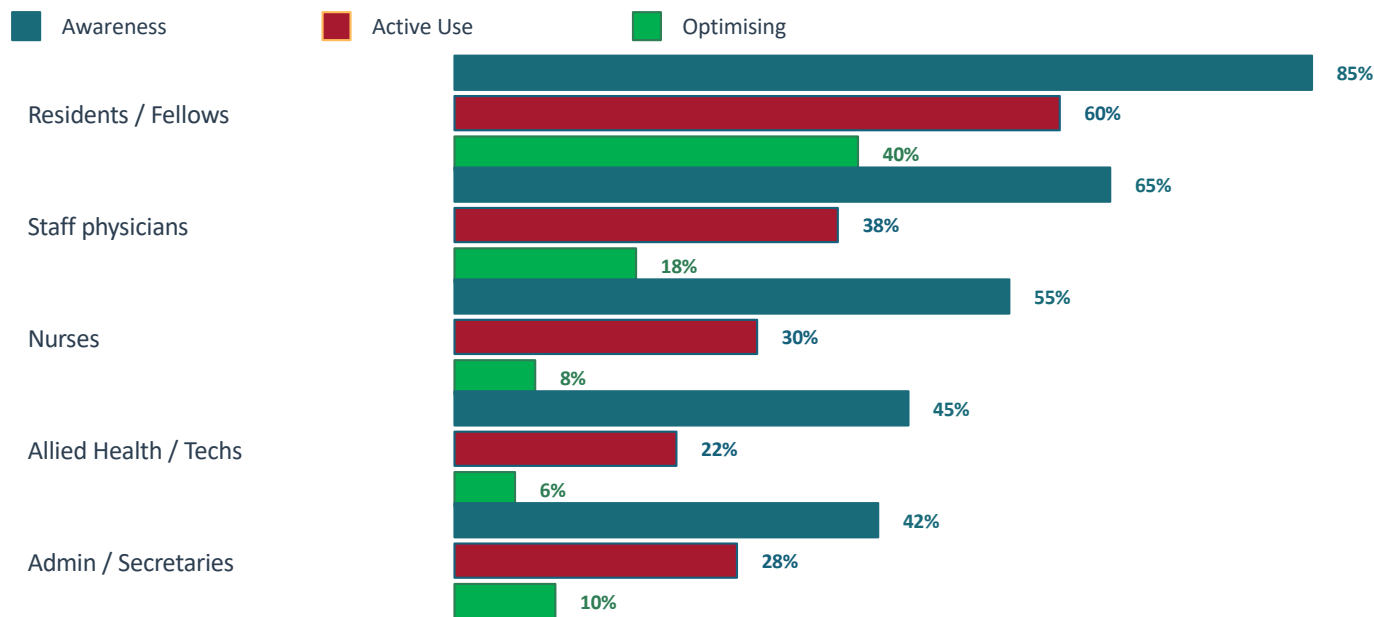
- Referrals and patient retention strategies
- Service line expansion based on future needs and trends
- Interactive dashboards
- Executive copilots

Supply chain and facility management

- Intelligent inventory control
- Predictive maintenance
- Energy optimization
- Waste and resource optimization




The Adoption Gap



Survey on the current state of awareness and active users of AI across the hospital. Emphasis on how many are in the pipeline of optimizing their workflows around AI

Artificial Intelligence Committee at Cleveland Clinic Abu Dhabi



Artificial Intelligence (AI) Committee Charter
Version #1

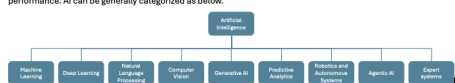
1. Objectives

The objective of the Artificial Intelligence (AI) Committee (AIC) is to define the organization's approach for leveraging AI and prioritize opportunities for the implementation of AI technologies at CCAD focused on enhancing patient care, improving clinical outcomes, and optimizing operational efficiency. The establishment of the AIC also meets the JCI and DoH requirements for AIC governance and oversight.


Artificial intelligence offers a transformative suite of solutions poised to revolutionize healthcare, from enhancing diagnostic accuracy and personalizing treatment plans to optimizing operations. The adoption of these varied AI technologies aims to improve patient outcomes, streamline workflows, and increase the efficiency of healthcare delivery, all while adhering to stringent local data privacy and healthcare regulations.

2. Scope

The AIC will be responsible for AI governance at CCAD. This includes, input to the AI strategy, executing on the strategy, evaluating and prioritizing opportunities, and ongoing oversight for AI solutions implemented at CCAD. The AIC will maintain an inventory of all AI implemented at CCAD and monitor the effectiveness and ongoing applicability of said solutions. The AIC will also be responsible for prioritizing any new AI projects; ensuring the appropriate resources are provided to deliver the solutions, train caregivers in usage and monitor the performance. AI can be generally categorized as below.



- Machine Learning (ML):** Systems that learn from clinical data (EMR, imaging, genomics, vital signs) to identify patterns, make predictions, or classify information without explicit programming. Examples include predicting patient risk for conditions like sepsis or hospital readmission, classifying medical images (e.g., identifying diabetic retinopathy from retinal scans), forecasting patient flow, or discovering patient cohorts with similar characteristics from EMR data.
- Deep Learning (DL):** A specialized subset of ML using complex neural networks to analyze intricate patterns in large datasets. In healthcare, this powers advanced analysis of medical images (radiology, digital pathology), interpretation of complex genomic sequences for personalized medicine, detection of subtle anomalies in continuous patient monitoring data, and computational drug discovery.
- Natural Language Processing (NLP):** AI focused on enabling computers to understand, interpret, and generate human language from clinical text and research. Applications include understanding structure information from unstructured text, powering voice-based clinic scheduling, and summarizing clinical notes.
- Computer Vision:** Allows AI radiologists and pathologists to analyze and guide robotic surgical instruments for training or quality assurance.
- Generative AI:** AI models that can generate realistic text, images, or audio. Applications include generating clinical summaries or patient education materials.
- Predictive Analytics:** Leverages historical data to forecast future health events or trends, such as predicting infectious diseases, predicting infection risk, or determining the likelihood of treatment success for individual patients.



Artificial Intelligence (AI) Committee Charter
Version #1

- Robotics and Autonomous Systems:** Integrates AI into physical robots for healthcare tasks. This includes AI-powered surgical robots for enhanced precision, automated laboratory systems for high-throughput sample analysis, robotic assistants for logistical tasks within hospitals (delivering medications or linens), and robotic systems for patient rehabilitation or assistance.
- Agent AI:** Represents AI systems designed to act autonomously and proactively to achieve specific goals over time. In healthcare, potential applications include AI agents that continuously monitor patient data streams and intelligently escalate alerts, manage complex patient care pathways by coordinating appointments and follow-ups, automate multi-step administrative tasks like insurance processing, or even autonomously manage aspects of clinical trials based on predefined protocols and incoming data.
- Expert Systems:** Rule-based AI systems designed to mimic the decision-making of human experts in narrow domains. While often supplemented by ML, they can still form the basis of some Clinical Decision Support Systems (CDSS) that provide recommendations based on established clinical guidelines (e.g., suggesting diagnostic tests or appropriate antibiotic choices).

3. Approach to AI


AI solutions cannot exist in isolation. These solutions must align with the broader organization & IT strategies, creating synergies that enhance our core mission of providing top-tier healthcare services. This integrated approach ensures that AI investments drive meaningful outcomes across the organization.

The AI approach will take into consideration integration requirements across key clinical, business and back-office operations. The AIC will align all stakeholders on aligning on AI initiatives within the organization, ensuring that technology enhances patient care, operational efficiency, clinical research & academics, workflow and costs.

4. Evaluation Process

AI initiatives will be reviewed by the AIC monthly and prioritized based on the benefit to the organization. The AIC will make recommendations to ensure outcomes are:

- Impactful
- Scalable
- Innovative
- Aligned with the Center of Excellence
- Resource-efficient
- Safe & Secure
- Accurate & Reliable



Artificial Intelligence (AI) Committee Charter
Version #1

- Potential risks
- Sponsor
- Estimated resources

This step integrates with the existing **Idea Intake Process**.

2. Initial Screening:

Preliminary review of submissions for:

- Strategic alignment
- Redundancy with existing efforts
- Basic feasibility
- Ethical or security red flags

3. Full Evaluation:

In-depth review covering:

- Value Assessment:** Benefit estimation and alignment with strategic goals
- Workflow Analysis:** Current vs. proposed workflows and operational changes
- Ethical Review:** Bias, fairness, explainability, and transparency
- Funding Review**
 - Budget request and justification (pilot and full roll-out)
 - ROI estimation and tracking plan
 - Financial oversight
- Technical & Security Assessment**
 - Infrastructure readiness (compute, storage, network)
 - Integration planning (APIs, HL7/FHIR interfaces)
 - Cybersecurity checks, including penetration testing
 - Data flow diagrams and security controls
 - Identity and access management
- Legal & Regulatory Compliance**
 - Contract review
 - Compliance with DoH, MoHAP, UAE data protection laws
 - Liability assessment

formation, or Reject will be launched with: metrics byment in a controlled setting mitative performance tracking ation and feasibility for scaling against predefined KPIs, including:

The objective of the Artificial Intelligence (AI) Committee (AIC) is to define the organization's approach for leveraging AI and prioritize opportunities for the implementation of AI technologies at CCAD focused on enhancing patient care, improving clinical outcomes, and optimizing operational efficiency. The establishment of the AIC also meets the JCI and regulatory requirements for AIC governance and oversight.

Page 1 of 6
Page 2 of 6
Page 3 of 6

AIC Charter & Operational Mechanics

WHO

- AIC Chair: Chief Information Officer (CIO)
- Medical Leadership (Dept. Heads)
- IT & Digital Health teams
- Legal, Compliance & Risk
- Clinical Operations
- Finance
- Data Science & Analytics

WHY

- Turn challenging pain points into structured solutions
- Without oversight:
 - Duplicate tools
 - Wasted spend
 - Safety gaps
- Without a mandate:
 - Pilots stall
 - Clinicians lose trust

HOW

- Clinician submits a pain point (not a product request)
- AIC maps it to a measurable KPI
- Workflow analysis determines feasibility
- Tool is selected, piloted with pre-defined success criteria
- Outcomes are reviewed before scale

The clinician is at the heart of every AIC decision. The technology serves the provider.

Artificial Intelligence (AI) at CCAD

In service of consistency of care, great experience, operational efficiency and innovation

Clinical Decision Support



- Detection Assistance
- Risk Prediction
- Triage & Prioritization

Patient & Caregiver Experience



- Virtual Assistant
- Situational Awareness
- Care Coordination

Operational Efficiency



- Virtual Care Enablement
- Workflow Automation
- Resource & Capacity

Patient & Caregiver Education



- AI Guided Education
- Real-Time Training
- Personal Training Plans

Research & Discovery



- Drug Discovery
- Clinical Trials

Safety & Ethics

- Bias and fairness review
- Regulatory compliance
- Security and data privacy

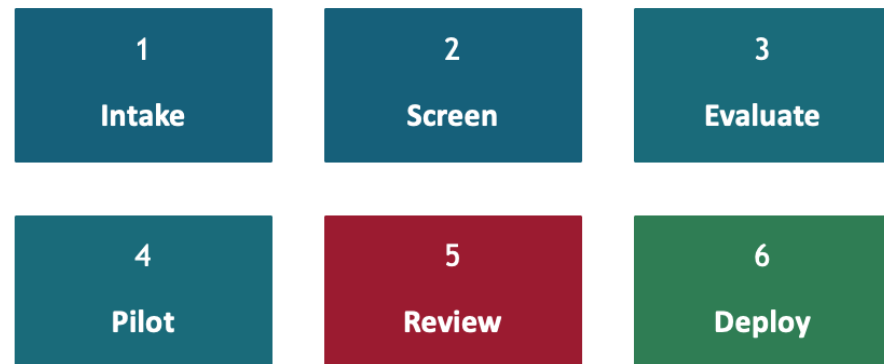
Speed & Efficiency

- Monthly AIC review cycle
- Agile pilot-to-scale pathway
- Intake form → live in 6 steps

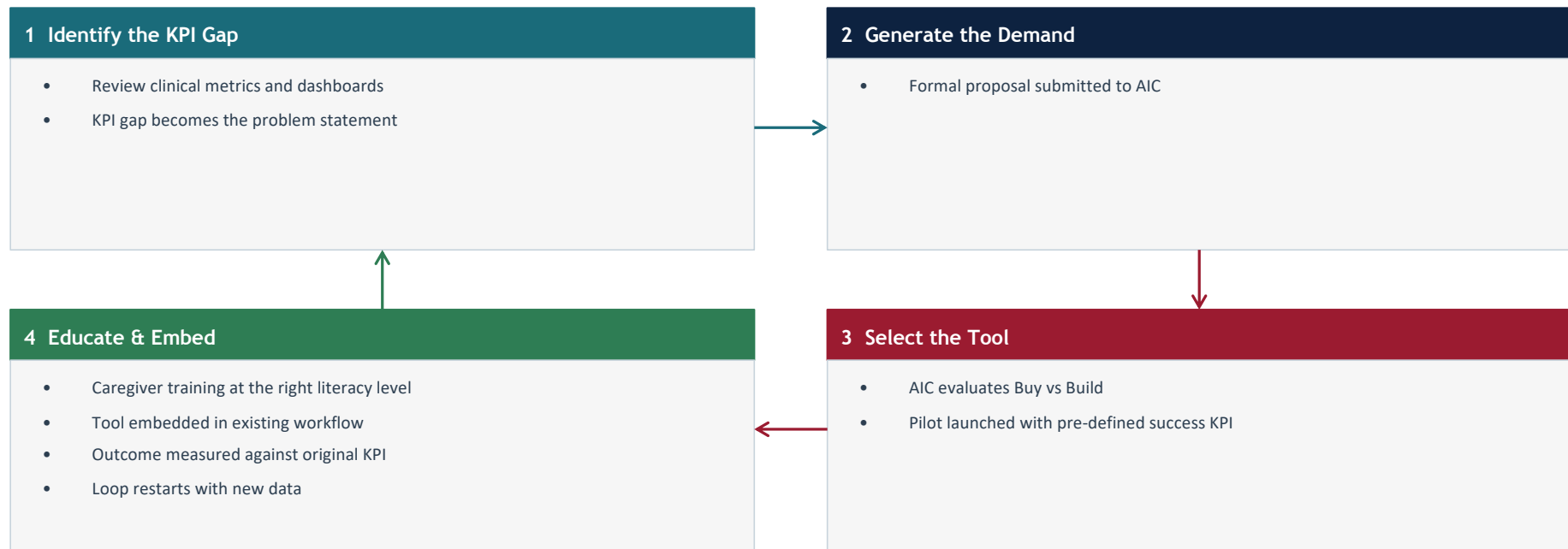
Accountability

- KPI-linked success criteria
- Ongoing drift monitoring
- Quarterly executive reporting

AIC 6-Stage Review Process

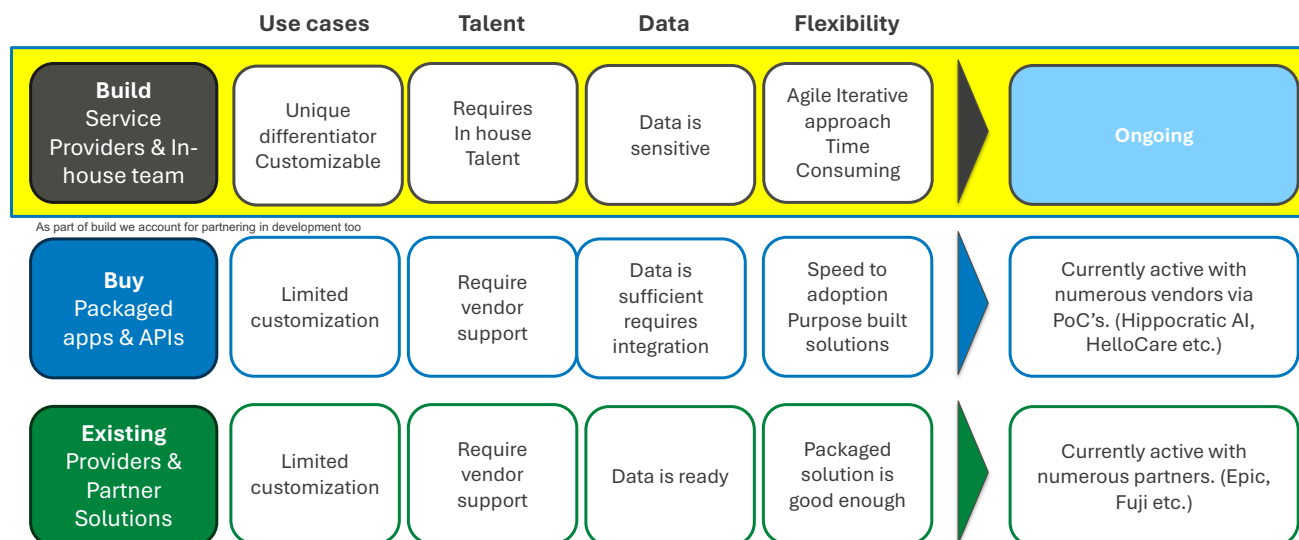


Governance and KPIs



Every cycle begins and ends with the clinician's experience.

The Approach to Implementing AI @ CCAD



AI Literacy



Microsoft 365 Copilot — your personal AI assistant

- Microsoft Copilot is your AI assistant inside Microsoft 365 Apps
- Supports your daily work across Microsoft Apps: Excel, Word, PowerPoint, Outlook, and Teams
- Helps you get work done faster using the tools you already use
- Helps to utilize features rarely known and used by a majority of users

Microsoft 365 Copilot — your personal AI assistant

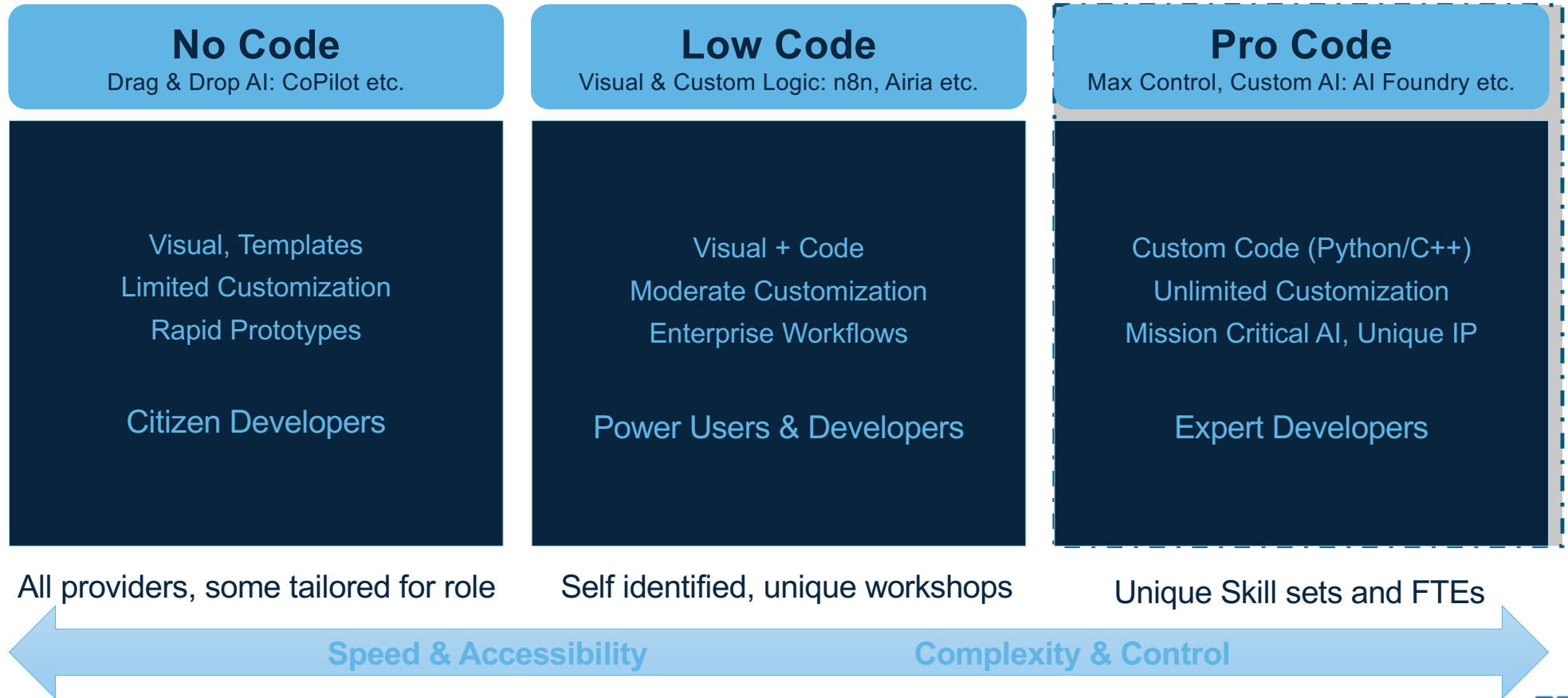
- Microsoft Copilot is your AI assistant inside Microsoft 365 Apps
- Supports your daily work across Microsoft Apps: Excel, Word, PowerPoint, Outlook, and Teams
- Helps you get work done faster using the tools you already use
- Helps to utilize features rarely known and used by a majority of users

AI Course – CCAD 2026

Session 1	Session 2	Session 3	Session 4	Session 5
Fri · 20 Feb 2026	Wed · 25 Feb 2026	Fri · 27 Feb 2026	Wed · 11 Mar 2026	Fri · 13 Mar 2026
Demystifying AI	Copilot Personalisation	Prompt Coaching	Building an Agent	AI at CCAD & Q&A
What AI is and is not Common misconceptions clarified	Configuring MS Copilot Prompting for clinical tasks	Crafting effective prompts Clinical use case practice	No-code agent design Practical workflow automation	Live tools · Governance Open Q&A for all attendees

Getting the Most Requires Democratizing AI

Enabling all caregivers to leverage the power of AI while also building a strong centralized capability



Strategy of Adoption

High Complexity ▲

High Leverage

- Ambient scribing (Abridge etc.)
- Epic © summaries
- Dashboard AI

Moonshots

- Adaptive radiation AI (Ethos)
- Agentic AI
- Autonomous robotic surgeries

Quick Wins

- No-show model
- Sepsis alert
- In-basket AI
- Imaging AI assistant

Deprioritise

Complex workflow changes with no clear KPI link

▼ Low Complexity

← Immediate value

Longer time to value →

Applications in different areas in the hospital

Clinic	Inpatient	OR	Imaging	Admin
<ul style="list-style-type: none"> · No-show model (Epic) — live · In-basket AI reply — reduces inbox · Common diagnosis quick buttons 	<ul style="list-style-type: none"> · Inpatient insight summaries · Hospital course summary (draft) · Sepsis alert (EWS + Epic v1) 	<ul style="list-style-type: none"> · Case length accuracy (pilot) · OR block utilisation forecast · Ethos LINAC (radiation oncology) 	<ul style="list-style-type: none"> · Reading priority model (Epic) · Imaging AI (Lunit, RapidAI) · Endoscopy CAD (Olympus OIP-1) 	<ul style="list-style-type: none"> · MS Copilot — letters, summaries · Abridge — ambient scribing (pilot) · Epic OCR — document scanning

What Is Already Live at CCAD

3

AI categories
 (Clinical · Operational · GenAI)

93+

AI modules
 in inventory

~30

Live or
 implemented

~15

In active
 pilot

Category	Live Examples at CCAD	Status
Diagnostic AI	Mammography AI · Lung nodule (Lunit) · Stroke (RapidAI) · IRIS retinopathy · Ethos LINAC	Live
Predictive AI	Sepsis detection v1 · Early Warning Score · No-show model v2 (74.8% accuracy) · Order search	Live
Generative AI	MS Copilot (600 caregivers) · Epic in-basket AI · Inpatient insight summaries	Live
Ambient AI	Abridge (Epic-integrated) · Med42/Doc42 ambient scribing	Pilot
Operational AI	Case length accuracy (OR) · Claims denial model · Patient sentiment analysis	Pilot / In progress

Clinical AI at CCAD

Imaging AI

- Mammography AI — Transpara/Volpara (Fuji)
- Lung nodule detection — Lunit CXR3
- Stroke/LVO detection — RapidAI
- Diabetic retinopathy — IRIS
- MRI reconstruction — SIGNA AIR Recon DL

Predictive & Decision Support

- Sepsis early detection v1 (Epic) — live
- Early Warning Score (EWS) — live
- No-show model v2 — 74.8% accuracy
- Fall risk model (Epic) — pilot
- Unplanned readmission model — pilot

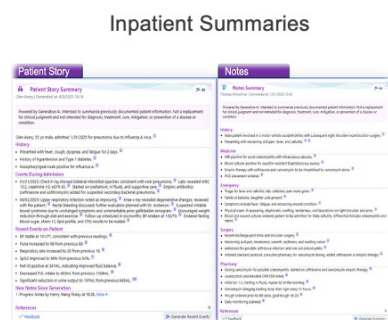
Surgical & Procedural

- Ethos LINAC — adaptive radiation AI (Varian)
- Artis ICONO Bi-plane — OPTIQ AI
- Case length accuracy — OR pilot
- Projected OR block utilisation

AUA 2026

Washington, DC MAY 15-18

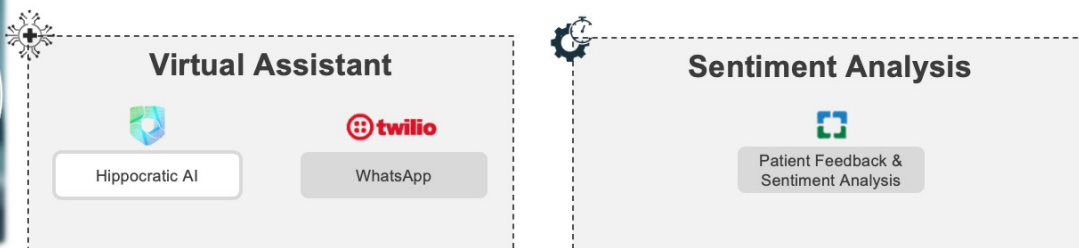
Patient & Caregiver Experience



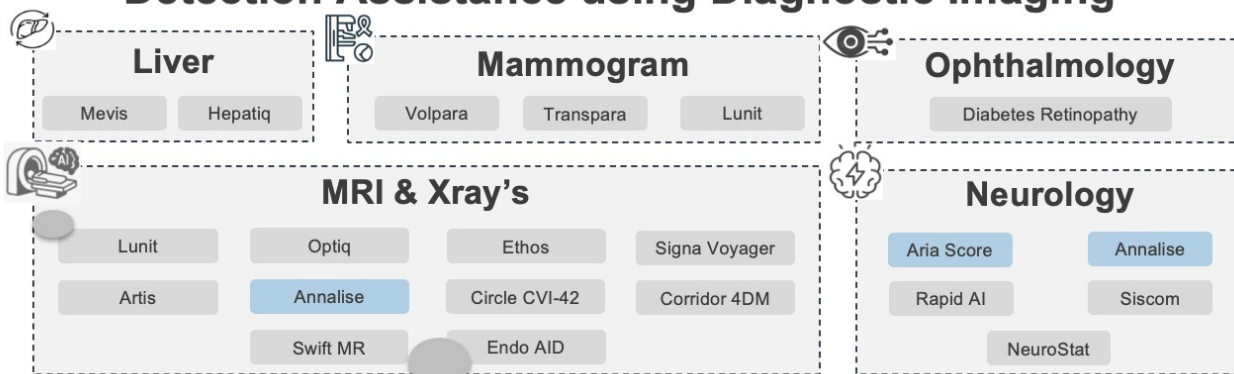
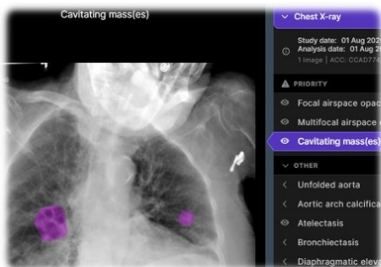
Caregiver Experience



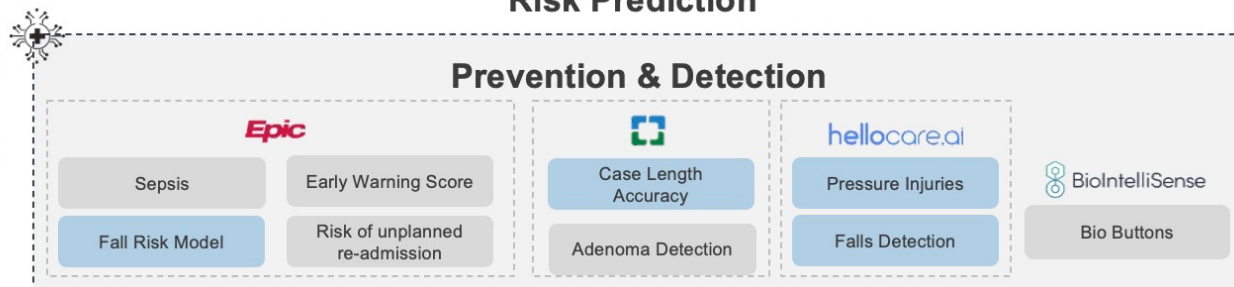
Patient Experience



Detection Assistance using Diagnostic Imaging



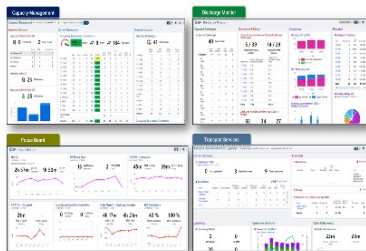
Risk Prediction



AUA 2026

Washington, DC MAY 15-18

Clinical Efficiency



Virtual Care Enablement

hellocare.ai In Hospital Remote Monitoring

Epic Capacity Mgmt. Dashboard

Patient Flow Dashboard



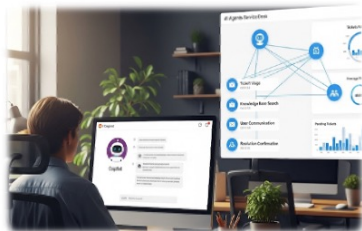
Predictive Analytics & GenAI

Epic OCR scanning Data Conversational Queries

Epic Outpatient Note summarization Questionnaire Translation

J&J Polyphonic Hippocratic AI

Business Efficiency



Workplace Efficiency

CoPilot Service Desk Agent Link Squares

CoPilot Agents Caregiver Advisor Fluid AI



Predictive Analytics & GenAI

Epic No show model CDI Queries

Hospital Coding Assistant Claims Denial Claims Denial

A Framework for AI Implementation – KPI-Linked

1

Identify

Pick ONE KPI that matters

- What is underperforming?
- What would a 10% improvement mean?
- Example: No-show rate at 29%

2

Map

Find the exact workflow gap

- Where does the process fail?
- Who is involved?
- Example: Patients not reminded 48h before appointment

3

Search

What already exists?

- Check your institution's AI inventory first
- Avoid reinventing
- Example: No-show predictive model already in Epic

4

Pilot

Define success before you start

- Set the KPI target explicitly
- Run in a controlled setting
- Example: Target <20% no-show in urology clinic


5

Measure

Did the needle move?

- Report to your AIC
- Scale if successful, stop if not
- Example: 29% → 17% (pilot result)


PROGRESS NOT PERFECTION
PROGRESS NOT PERFECTION
PROGRESS NOT PERFECTION
PROGRESS NOT PERFECTION
PROGRESS NOT PERFECTION
PROGRESS NOT PERFECTION



0651C
Optimizing Clinical Workflow in Urology: Leveraging KPIs and AI
Monday, May 18, 2026
10:00am – 12:00pm

Course Director: Pablo Santamaria, MD and Vannita Simma-Chiang, MD
Course Faculty: Waleed Hassen, MD, Mark Painter, CEO, David Canes, MD

1



Urology Crossroads
AI in Urology 2026
Mark N. Painter

2

Urology Reimbursement

- CF for 2026 increase 3.26% - with adjustments Urology is projected with a net 0.0% change in payments.
- Between 2013 and 2023 Urology Medicare fees have decreased - 2.2%*
 - 2024 and 2025 net 0.0% change
- CPI for the same period up 29.3%*
- Health Expenditures for same period up 33.9%*
- Net this represents a 31.5% decrease in reimbursement
- Summary Increased workload same pay.

* <https://www.sciencedirect.com/science/article/abs/pii/S0039606023009522>

3

Urology workforce

- 63% of US counties do not have Urologist
- Median age of Urologist 55-59 in 2019 per AUA census
- 3.99 Urologists per 100,000 people in 2019
- Projected 3.3 per 100,000 in 2030*
- Projected 3.99 per 100,000 in 2050 (assumes 318 new Urologists/yr)*
- **23.8 Urologists per 100,000** people age 65 and older 2020*
- Projected **15.8 Urologists per 100,000** people age 65 and older 2035*
- Cumulative shortage of Urologists 3,851 (required **30%** more Urologists to meet needs of aging population*)

*<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2786183>

4

Doing more

- APPs as a growing portion of the Urology work force
- Technology changes in treatment
- Change clinical approach
- Increase activity at the top of your license
- Leverage Technology
- Is AI an answer?

5

AI Implementation

"I have not failed. I've just found 10,000 ways that won't work" - Thomas Edison

- Understand the tool and its limitations
- People generally do not like change –patients and staff included
- Mistakes will happen – monitor and correct
 - You need a good partner
 - AI can be customized
- We have to become the agents of change

6

Coding Tool Development

- Initial programming with data reviewed by PRS staff
- Refinement period with PRS reviewers
 - Training to answer broadly for specific questions
 - Feed back loop on documents HIPAA protected space.
- Roll-out with supervision and feed back continues

7

Examples of AI Tools in Action in RCM

- Basata — Automates referral and fax workflows; speeds up administrative processing and scheduling.
- Calm Waters AI —E/M coding; working to improve coding and compliance for urology practices.
- AgentAI - RCM – process integration, data processing, contract compliance, denial responses, claim scrubbing
- AI Scribes – Hiedi, Ambience etc.
- EHR - integration and implementation
- Docology — Automates documentation workflows, reduces prep time, and increases capacity.

8

AUA-2026
Washington, DC

MAY 15-18

Question