

Close the Loop on Patient Follow-up



ILLUMINATE
ActKnowledge[™]
Care Management for Discovery

Pre-defined Start with Hyper Customization

Ready out of the box, but with "Configuration in Mind"

Illuminate has been working with our clients to develop the best process for managing patient lists. These lists are derived from targeted patient populations with conditions including AAA, TAA, and more. Through collaboration with many healthcare systems, we have built these learnings into the system to support a quick start that is both efficient and intuitive. However, while we build out additional knowledge into the system, we know the demands of your patient populations and goals of the organization are unique so we have built in hyper customization so you have the tools at your fingertips.

This hyper customization is powered by

- Unmatched search
- Comprehensive healthcare filters
- AI powered by NLP

Administration Capabilities

Healthcare software can sometimes be clumsy or overly complicated, making a minor configuration change or individual customization a daunting task. This leads to unnecessary time working with vendors to achieve something that should be easy enough to do yourself.

ActKnowledge exposes almost unlimited customization through simple and easy to use Administration options. Out of the box, it comes with a clinically designed and researched setup specific to **Illuminate AI Models**. Things change, so as your business targets or patient populations change, so can **ActKnowledge**. With just a few quick clicks, you can create new projects, edit any previous setup, or expand the scope of an existing project.

FINDINGS:
 The included lung bases are clear.
 The liver is normal in size and contour. A 9 mm hypodensity within the left hepatic lobe likely represents a small cyst.
 The spleen, adrenal glands and gallbladder are normal. There is no biliary ductal dilatation. The pancreas is normal in size and contour. Scattered punctate calcifications within the pancreas are consistent with chronic pancreatitis.
 Evaluation of the kidneys reveals moderate atrophy of the right kidney in comparison to the left. The kidneys are otherwise normal in contour. There is no hydronephrosis. The GI tract is normal in caliber without evidence of bowel obstruction or free air. The extensive diffuse atheromatous disease of the included thoracolumbar abdominal aorta includes an aneurysm measuring 56 x 42 mm in its proximal portion and 55 x 52 mm in its distal portion. Luminal stenosis. Extensive eccentric mural thrombus within both portions of the aneurysm appear to be significant calcification at the ostium of the inferior mesenteric artery. The IVC is within normal limits. There is no free fluid. Urinary bladder is decompressed. A round fibroid. There are prominent periuterine vessels. The bones are intact.

IMPRESSION:
 1. No evidence of acute abnormality in the abdomen.
 2. A large bilobed infrarenal abdominal aortic aneurysm.
 3. Scattered punctate calcifications in the pancreas.
 4. Moderate atrophy of the right kidney in comparison to the left.

EMR integrations allow Navigators to apply their own documentation to patient charts including notes and other pieces of information.

Add Note

New Note*

Spoke with Dr. Schane in vascular. Set f/u CT at 2 weeks.

Contacted (optional)

Dr. Schane

Phone call
 Email
 Fax
 Certified letter
 Other

Snooze or Close

Snooze For

2 weeks

Close Case

SNOOZE

ILLUMINATE ActKnowledge

Projects: AAA

Search Cases By: MRN

Accession: _____

Created By (Last Name): _____

OPEN CASES | SORT BY

AAA > 5cm

Case Number	ACO Member	Exam Date	Patient Age	Patient Active Status	Document Recency	Modality
3158-173-21	<input checked="" type="checkbox"/>					US
3156-173-21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				CT
3143-173-21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				CT

Nurse Navigators can view patient cohorts assembled for a variety of care workflows. Records can be searched by numerous fields from patients' charts.

Patient Focused Care Management

Patient List

Even after finding patients needing care, the problem of actually getting the thousands of patients cared for can be overwhelming for hospital staff.

ActKnowledge brings powerful search and filtering to patient care management. Nurses are able to narrow their focus to highly specific patient cohorts in order to prioritize care and accelerate workflows.

ActKnowledge is powered by **Illuminate AI**, automatically finding patients with the diseases you care about in **real-time**. This allows users to target these patients before they even leave the hospital.

Advanced Patient Tracking

Following patients over their lifetime comes with many complications that can get in your way of ensuring they receive the best possible care.

ActKnowledge enables real-time tracking to enable better patient care. This is facilitated through advanced features to enable patient handoffs between team members, comorbidity tracking, ACO membership, Problem List Overviews, ideal surgical patients, and real-time alerts for new patient documentation.

These features and more allow your team to stay on top of patients like never before. **ActKnowledge** will alert you if a patient receives a new note relating to a disease you're following. This allows you to focus on specific patient cohorts, while keeping a tight loop on those you have already seen or treated.

All reports from the hospital's Radiology Servers and EMR are imported into **Illuminate Infrastructure**.

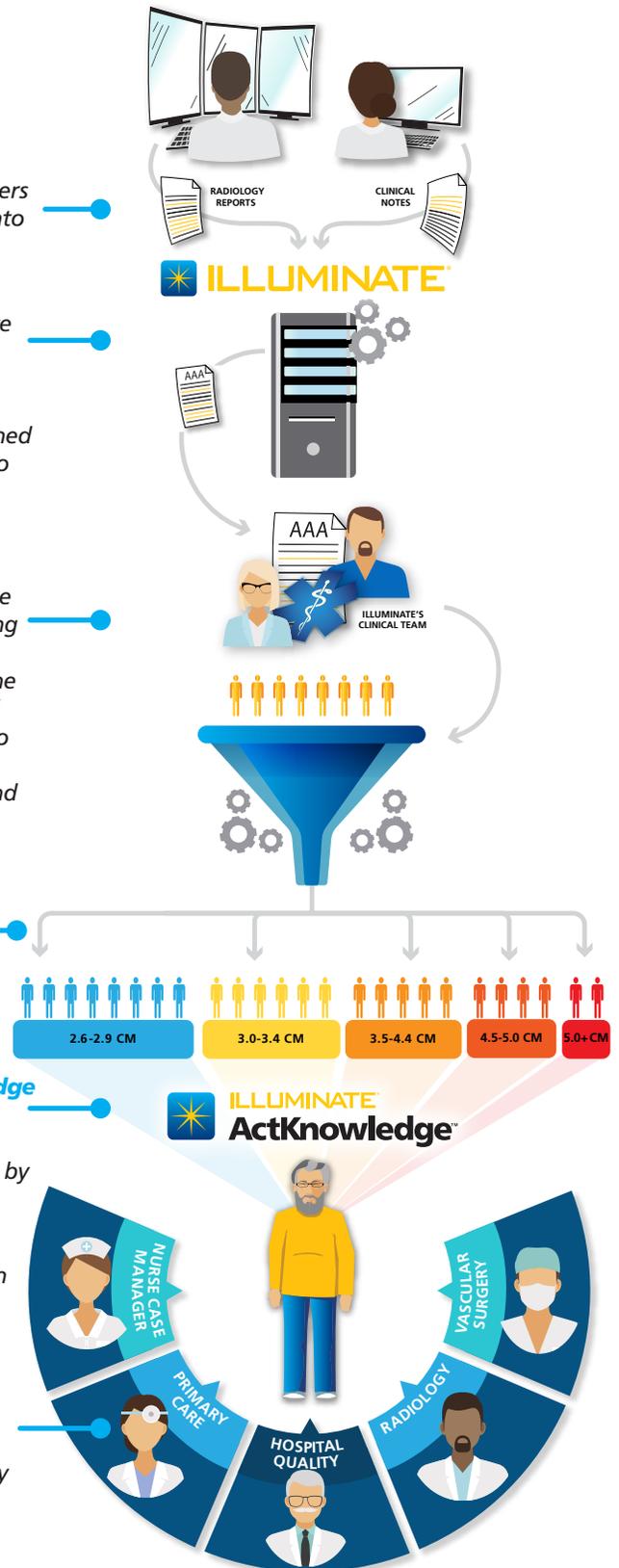
These reports are then digested by the **Illuminate Discovery System**, which uses novel **Natural Language Processing (NLP)** approaches combined with **Machine Learning** to discover forgotten and "at-risk" patients.

The **Illuminate Clinical Team**, comprised of nurse navigators and supervising physician specialists, analyzes the output of the **Machine Learning**, and provides a "safety net" to ensure that all "at-risk" patients are identified and triaged appropriately.

The sophisticated **NLP** and clinical algorithms then sort patients into categories of disease severity.

These patients are then entered into the **Illuminate ActKnowledge System** where they are easily tracked and appropriately monitored by our Nurse Navigators.

The **Illuminate Clinical Team** in partnership with hospital physicians and nurses follows a locally tailored surveillance protocol ensuring that patients receive the diagnostic testing and care they need in a timely fashion.



Seamless Patient Documentation

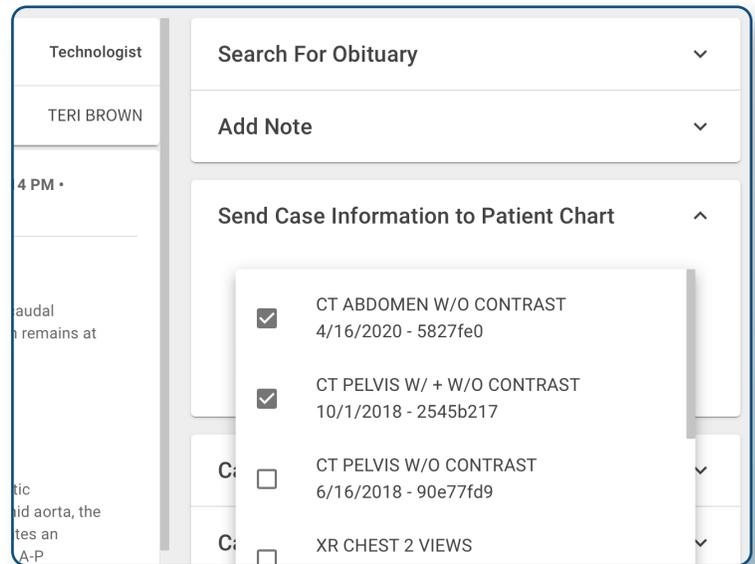
Bi-directional Interface to Cerner and Epic

Duplicate documentation can be devastating for both productivity and having a clear history of care for a patient.

ActKnowledge has seamless bi-directional integration with both Cerner and Epic, which means you document once and move on. This allows you to transform your workflows by unleashing the power of **ActKnowledge** as your care management entry and exit point.

Epic's Best Practices can be triggered from **ActKnowledge** to ensure your BPA's are accurate even outside of the EMR.

In-Basket integration enables you to quickly send cases and notes to your team without having to leave **ActKnowledge**.



ActKnowledge allows care managers to add additional reports when sending case information back to Epic or Cerner. This combined with their notes, helps provide a clear picture and reduces the amount of duplication between ActKnowledge and the EMR.



Incidental Findings

Powered by Illuminate AI

Everyday 1000's of patients slip through the cracks who are at risk for serious conditions. Lost in documentation and reports, these patients can stay hidden forever unless their providers take a second look.

Illuminate AI reads and finds cases in real-time discovering patients that slipped through the cracks.

ActKnowledge organizes and prioritizes these patients so you can treat or follow them without missing a beat. **ActKnowledge** supports patients found in real-time as well as multi-year historical look-backs.

Case Attributes

Repair Type

Endovascular None Open Unknown

Aneurysm Followed By

Internal Vascular Internal PCP External Vascular External
Other

Interventions

Call Medical Director Notified Repair Candidate Surv
Vascular Referral

Aneurysm Location

Abdominal Iliac Splenic Thoracoabdominal Renal
Hepatic SMA

Special Conditions

Contradictory Documentation High Priority Off Protocol

ActKnowledge allows users to stratify patients by attributes of conditions, such as disease observations or the presence of comorbidities. Users can also prioritize day-to-day workloads by integrating registry information, such as indications of patient activity, or membership in ACOs.

Case Number	Accession	Patient Status	Modality	Payor Group	Problem List	Referring Physician	Patient	Facility
3145-173-21	738b4e0	✓	CT	Aetna	I71.4	COLGLAZIER, MITSUKO	BATTERS, PERRY	Riley
3161-173-21	189dc836	✓	CT	BCBS	I71.9	MUSSMAN, JOHNNA	JAYNES, EMMETT	Lyon
3181-173-21	62d24fc2	✓	CT	BCBS		BERGESON, ZADA	BAUSMAN, GREG	Johnson
3139-173-21	d06c79f	✗	CT	BCBS	I17.4, I51.2	STIEB, KANDACE	MORAVEC, MELVIN	Jackson
3159-173-21	dd2c38f7	⚠	CT	Aetna	I05.2	PORTH, SHERYL	KILMISTER, REYNALDO	Riley
3200-173-21	dd2c38f5	⚠	CT	Medicaid	I53.2, I71.4, I30.1	PORTH, SHERYL	KILMISTER, REYNALDO	Jackson
3169-173-21	5c120b64	⚠	CT	Aetna		DELMUNDO, EVELINE	YAMASAKI, BUDDY	Johnson
3170-173-21	f1ed299a	⚠	CT	Aetna	C79.32	KLAPHAKE, COREY	RAHIMI, ELEANORA	Jackson
3167-173-21	e96d0	⚠	CT	Medicaid	I72.0	BUTTRY, NOBUKO	MOY, KEITH	Jackson
3171-173-21	1a47ff8	⚠	CT	Aetna		PORTH, SHERYL	WILBURN, KRIS	Lyon

ActKnowledge is a solution for care management at scale. Manage thousands of patients safely, efficiently and intuitively — arriving at improved outcomes more quickly.

Intuitive User Experience is What Consumers Expect



Intuitive

Modern healthcare software can be bloated and extremely complex. Added overtime features and option overloaded user interfaces complicate the most used workflows unnecessarily, often to the point of frustration.

As **ActKnowledge** has grown as a product, we have followed modern and current design principles to ensure that common workflows are quick and painless. We continually revisit and retest our UI to ensure that the functionality feels like second nature.

Our commitment to UI makes **ActKnowledge** intuitive and up to modern software standards to which we've all become accustomed.

Fast

As time goes on and technology changes, applications can become slow due to reliance on old software frameworks and tools.

ActKnowledge is built on the latest and greatest web application framework available. We take advantage of bleeding edge technology to ensure your work is not hindered by technical constraints. **ActKnowledge** runs on WebAssembly, which aims to execute at native speed by taking advantage of common hardware capabilities available on a wide range of platforms.

Reliable

Software that you depend on for daily work needs to be reliable and always up to date.

ActKnowledge is built with this in mind. From the technological choices made to the decade of improvements and optimizations implemented, it is ready to be your daily driver for getting care to the patients most in need.

Flexible

Today's users expect a level of flexibility in the user interface. This flexibility is even more important with software that's interacted with for long periods of time.

ActKnowledge allows the user to personalize the look and feel of the interface to optimize their own workflow. Customization of the patient list and case attributes allows users to work faster, based on their preferences.



Better Management Through Data

Outcomes

Measuring patient outcomes over time is critical to understanding if a product is effective in your department.

ActKnowledge has advanced analytics to help you measure those outcomes overtime and ensure you are effectively tracking incidental findings or caring for chronic conditions.

Operational Effectiveness

ActKnowledge's analytics gives you the tools to identify optimal staffing needs and ensure maximum productivity. It empowers your department with deep insights into your care management lifecycle.

THE ACTKNOWLEDGE SYSTEM ALLOWS FOR ...

- Simple radiology report text fragments (e.g. powerscribe templates) to trigger workflow.
- Illuminate ML modules to trigger workflow off NLP and AI algorithms.
- Custom triggers that we could jointly develop (e.g. cardiomegaly, etc.)
- Customer developed input that triggers workflow.



Powerful Analytics

Set Goals and Achieve Them

Being able to view your project at a high level throughout its duration can provide key insights to ensuring its success.

The **Illuminate Analytics Overview Worksheets** provide your organization just that. They allow for goal creation, progress tracking across patient cohorts, and high-level statistics. From understanding your volume to seeing a real-time burn down of your projects, **Illuminate Analytics** brings you a real-time view of where your organization stands.

Track new patient encounters including new imaging, visits, and procedures, all generated by **ActKnowledge** and the client's EMR data. This enables a clear understanding of your return on investment from **ActKnowledge**.



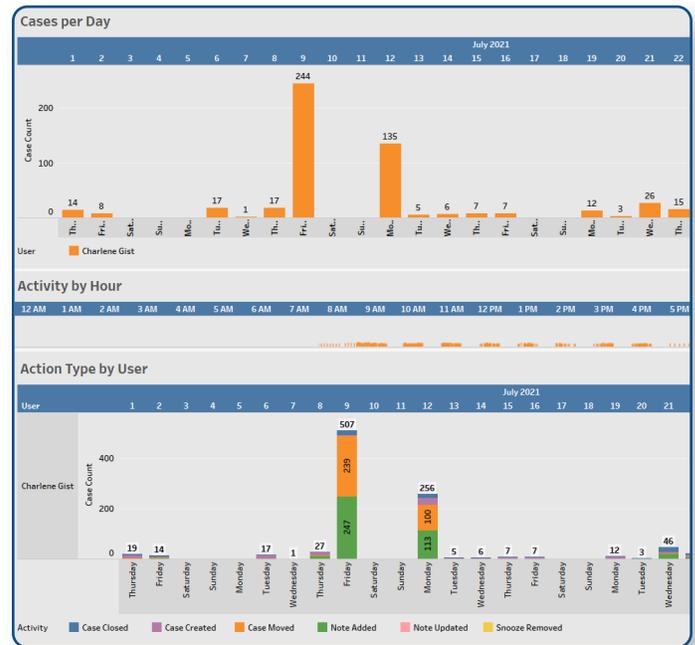
The overview pages give you a holistic view of each ongoing project in your department.

Understand The Work

Understanding the output from your staff is an important piece to successfully providing care to your patient.

The **Illuminate Analytics User Activity Worksheet** provides an in-depth look into the work being accomplished within **ActKnowledge**.

See your nurse navigator's strengths and areas of improvement at a glance, from the date and time at which activities are logged to understanding which cases take longer than others.



User Activity allows you to view throughput and volume from your staff at a glance, revealing necessary staffing and workload adjustments to keep projects on track.



Experience Illuminate Live!

Contact us today to arrange your 30-minute online Illuminate demonstration, and experience firsthand the power of putting even more of your EMR data to work.

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illuminate.ai



Illuminate software is developed exclusively in America by a diverse, multicultural team of experts.