

# Vision 2020

## Placemat



April xx, 2016





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# Ambulatory

## Section 1



April xx, 2016

# Ambulatory

💡 Not Started

✎ Design in Progress

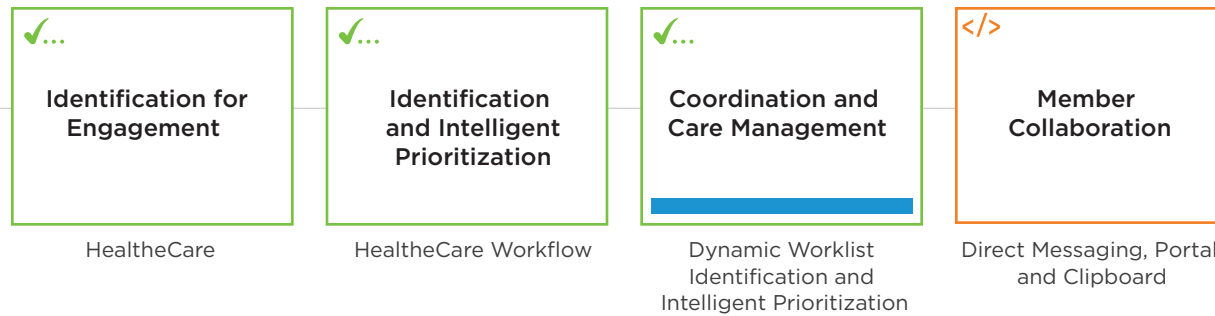
</> In Development

✓... Released Cont. Development

■ Status Update

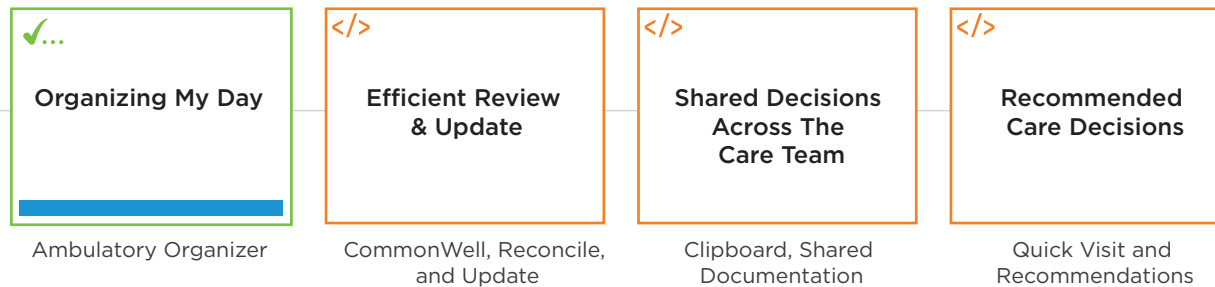
## Ambulatory Care Management:

Monitoring and oversight of the practices or broader communities populations leveraging intelligent prioritization and notifications, collaboration and charting within the emr, and improved access through industry leading member engagement.



## Empowered Clinical Staff:

Clinical staff in the office engaging as they become part of the patient's care team



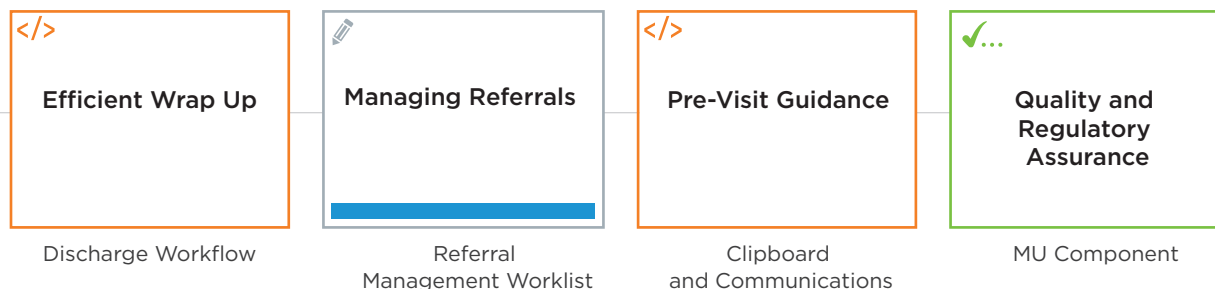
## Efficient Provider:

Provider's shared engagement with the patient through the clinical staff and patient entered data



## Visit Prep And Close:

Care team closes visit through education and helping to manage follow-up for future care.





# Highlights - Ambulatory



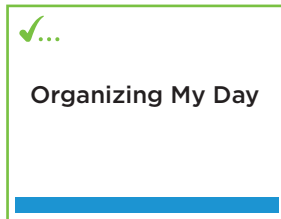
Notes:



## Coordination And Care Management

### Dynamic Worklist

- Broadcast Messaging
- Integration with HealtheRegistries and Patient Care Advisories
- Location based lists
- Search medication synonyms
- Filter off lack of upcoming appointments



## Organizing My Day

### Organizer Slideout

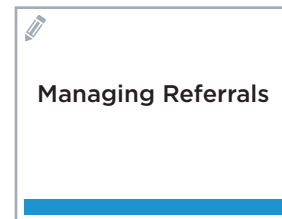
- Ability to easily see a patient overview without having to access the chart
- Embed visit itinerary or other visit indicators
- Complete provider documentation and orders



## Shared Work Across The Care Team

### Multi Contributor Workflow

- eClipboard and patient entered data (ROS, Allergies, Meds, Procedures, Histories)
- Multi Contributor and Direct Entry documentation started by clinical staff
- Auto text enhancements
- Review, modification and sign off by provider



## Managing Referrals

### Referrals

- Status Tracking (Appointment, Prior Auth, Documentation)
- Ability to manage internal or external referrals
- Provider Directory
- Revenue Cycle integration
- Reporting for Network Utilization
- Worklist queue

# Cardiology

## Section 2



April xx, 2016

# Cardiology

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✎ Design in Progress

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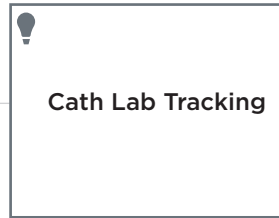
■ Status Update

## Care Team Communication

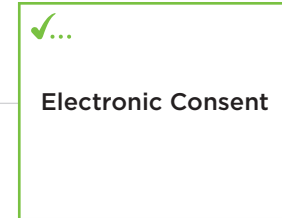
Real-time communication to empower patients and clinicians to make informed decisions that impact patient outcomes.



Real-time alerts from system ECG interpretation



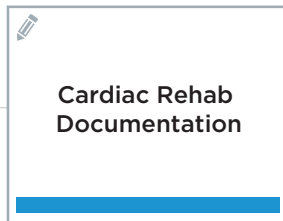
RFID Patient Tracking Dynamic Scheduling



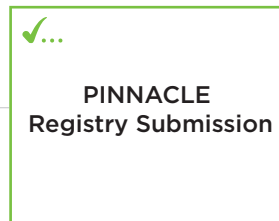
Content 360

## Efficient & Empowered Clinical Staff

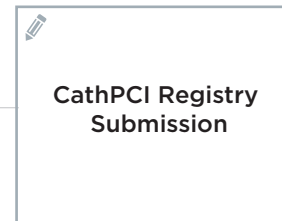
Enhancing clinical documentation and streamlining processes for members of the patient's clinical care team



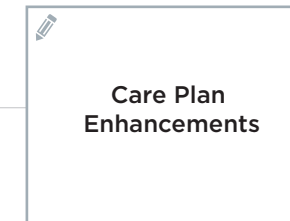
Direct Entry Framework Vital Signs Integration



Powerform Content figMD



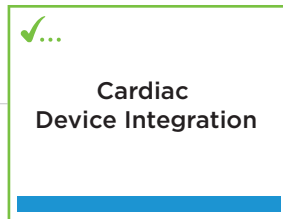
Cedaron



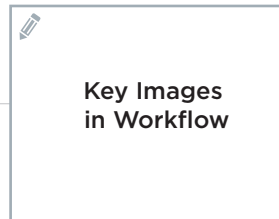
Goals Mpage Component

## Provider Efficiency

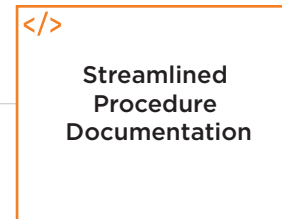
Streamlining the provider's engagement through connected data, documentation efficiencies, and system intelligence.



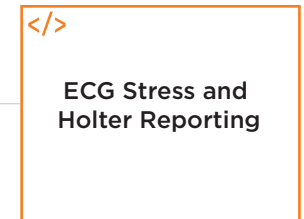
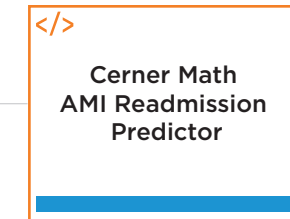
Implanted device data sent automatically to PowerChart



Know Me, Recommendations, Preventive Care Advisor



ASCEND integration Auto-Text Advancements Contextual View

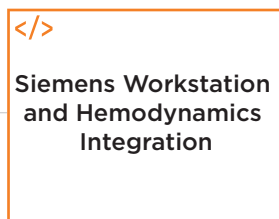


## 3rd Party Interoperability

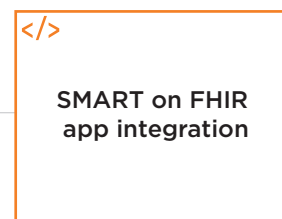
Connecting systems together to maximize usability, provide decision support tools, and create a complete patient chart



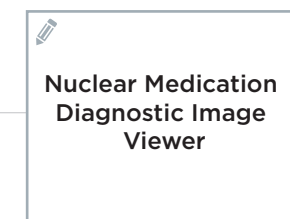
eMAR updates from Merge Hemo



Referral Management Worklist



ASCEND CV Guidelines, HOS predictive models, Siemens SYNTAX score



INVIA integration

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## Merge Hemo Medication Integration

- Medications administered Merge Hemodynamics will update eMAR in PowerChart
- Ensures eMAR is source of truth for medications administered during the hospital stay (breaks down the Cath lab "silo")
- Decreases duplicate documentation
- Increases patient safety

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## Automatic STEMI Alerts

- Early identification of a STEMI and the speedy activation of the hospital's cardiac cath lab dramatically reduce wait time for patients who need reperfusion therapy.
- Despite clinical studies, many 12-lead transmission programs have floundered. The primary culprits are technical hurdles to speed up detection and communication of STEMI via ECG.
- Enhancement allows for an ECG result to be flagged as Critical as soon as ST elevation is detected on a Mortara device. Additional requirement includes PowerChart ECG.
- Critical flag is triggered before provider acknowledgement, allowing clinical staff to take action more quickly.
- Diagnosing STEMI up front can be highly effective in achieving the door-to-balloon target when taking physician diagnosis out of the equation.

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## Cerner Math AMI Readmission Predictor

- Assists with identifying patients at elevated risk for cardiac ischemic events while attached to a monitor in the acute care setting.
- Incorporates time-series hemodynamics to improve characterization of risk of coronary occlusion and subsequent AMI or re-infarction.
- Utilizes proprietary model to accurately determine relationships among monitored variables, minimizing "false alarms" while preserving high sensitivity for predicting ischemic cardiac events between 30 min and 4 hours into the future.
- Requires iBus, continuous or high-frequency measurement of vital signs and provisioning the numerical values to DAAKOS or EMR.
- Advanced Copy Forward leveraging Protocol Variance

✎

## Cardiac Rehab Documentation

- Model Experience development for Cardiac Rehab recommendations
- Partnerships with Mortara and Cerner clients to create robust content offering
- Leveraging Direct Entry framework to streamline documentation process
- Face-up trending of patient vitals and progress toward goals

✓...

## Cardiac Device Integration

- Key partnerships with implantable device vendors to receive interrogation and episode data directly in patient's chart
- Device data can be forwarded to Cardiologist's Message Center for endorsement
- Cardiac Device Summary and Detail components to allow device data viewing in context of the workflow
- Standard Reports to better manage patients with implantable devices.

# Care Management



## Section 3

April xx, 2016

# Care Management

💡 Not Started

✎ Design in Progress

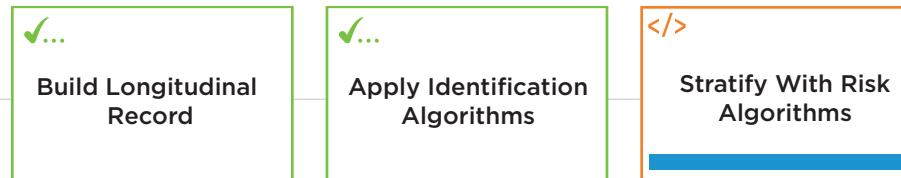
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■ Status Update

## Identify Candidates

Identify individuals who would most benefit from care management services.



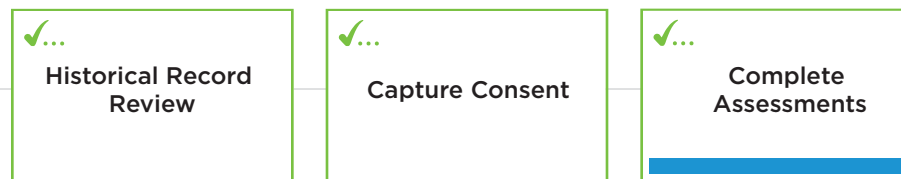
## Manage The Workforce

Support the supervisory roles for care management services.



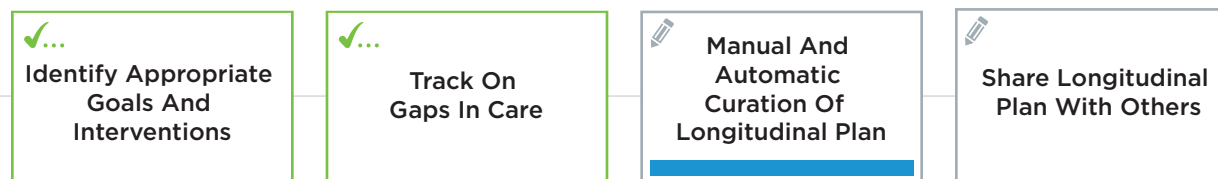
## Enroll Case

Initiate the individual into care management services and get to know the individual.



## Build And Manage A Longitudinal Plan

A consolidated view of instructions, goals, activities, education, and objectives for the individual across time and venues.



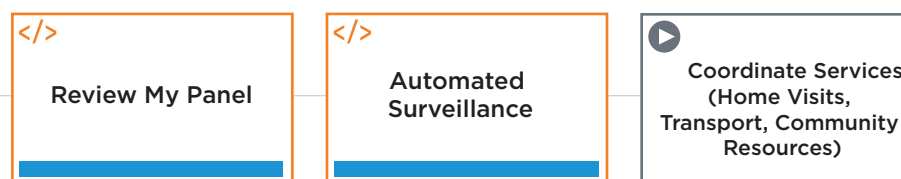
## Communicate And Engage Effectively

Facilitate effective communication between care team members, as well as patients and care givers.



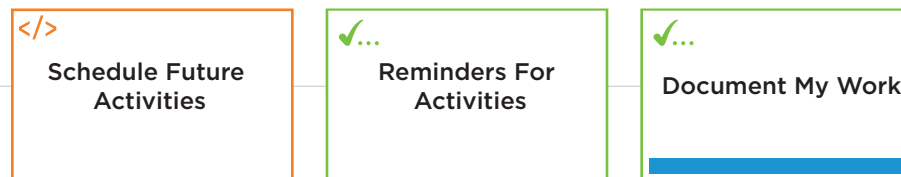
## Manage My Panel

Enable care managers to view summary information of the panel and who needs attention.



## Organize My Day

Productivity tools to help care managers efficiently complete their work.





# Highlights - Care Management



Notes:

<div>&lt;/&gt;</div> <div>Stratify With Risk Algorithms</div>	<div>✓...</div> <div>Complete Assessments</div>	<div>✎</div> <div>Manual And Automatic Curation Of Longitudinal Plan</div>	<div>✓...</div> <div>Secure Messaging</div>
<ul style="list-style-type: none"> <li>● High-risk adult, senior, peds, maternity algorithms</li> <li>● Candidate alignment algorithms</li> </ul>	<ul style="list-style-type: none"> <li>● View Healthe Record in Millennium</li> <li>● View gaps in care (Registries) in Millennium</li> <li>● Pre-seed demographic information in Millennium from HealthIntent</li> </ul>	<ul style="list-style-type: none"> <li>● Document and prioritize goals and interventions</li> <li>● Document personal care team members</li> </ul>	<ul style="list-style-type: none"> <li>● Secure message between care managers and patients</li> <li>● Generate case summaries</li> </ul>
<div>Coming by April 2016</div>	<div>Coming by April 2016</div>	<div>Coming by April 2016</div>	<div>Coming by April 2016</div>
<ul style="list-style-type: none"> <li>● Adding multiple risk algorithms</li> </ul>	<ul style="list-style-type: none"> <li>● Incorporating xG assessment content</li> </ul>	<ul style="list-style-type: none"> <li>● Incorporating xG goals and interventions content.</li> <li>● Gaps in care report</li> <li>● HCC Report</li> </ul>	<ul style="list-style-type: none"> <li>● Video Visits Phase 1</li> </ul>

# Highlights - Care Management



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Review My Panel

- Basic case list

Coming by April 2016

- Remote monitoring

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Reminders for activities

- Automatic enrollment reminders

Coming by April 2016

- Overhauling activity management

✓...

Document My Work

- Document communication events

Notes:

# Emergency Medicine

## Section 4



April xx, 2016



# Emergency Medicine

💡 Not Started

✎ Design in Progress

</> In Development

✓... Released Cont. Development

■ Status Update

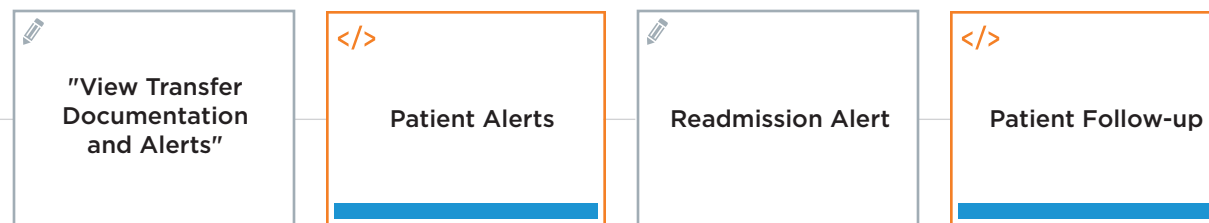
## Connecting Pre-hospital and Patient Centered Data

Document the events of a trauma and create a patient story that shows the trauma events as they occurred by connecting pre-hospital and patient centered data to the ED.



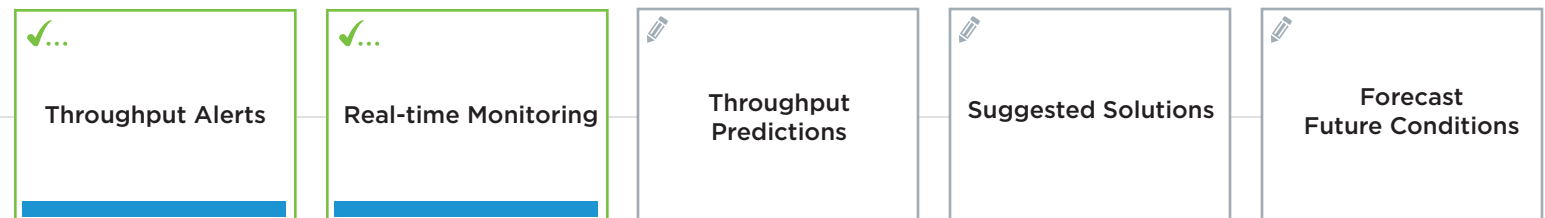
## Reducing Cost and Crossing the Continuum of Care

Support the supervisory roles for care management ser"Reduce costs by avoiding unnecessary ED visits and admissions, and efficiently coordinate with Case Managers to affectively cross the continuum of care.



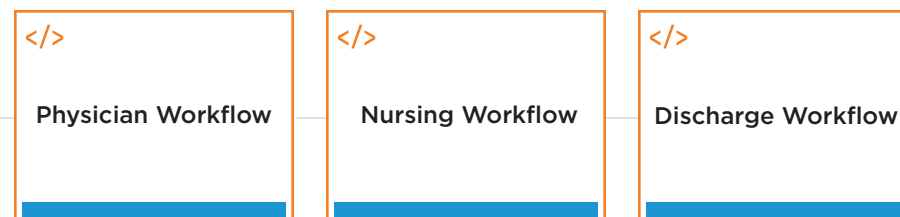
## Evidence-based Operations

Proactively manage throughput in the emergency department via predictive algorithms, timely alerts, and intelligent solutions that can help prevent overcrowding.



## Advancing the Workflow

Advance the workflow by offering smart solutions that save providers clicks, and provide nursing with reminders to improve ED throughput and efficiently discharge patients from the department.



# Highlights - Emergency Medicine



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Patient Alerts

- High-risk adult, senior, peds, maternity algorithms
- Candidate alignment algorithms

Coming by April 2016

- Adding multiple risk algorithms

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View Patient Centered Data

- High-risk adult, senior, peds, maternity algorithms
- Candidate alignment algorithms

✓...

Secure Messaging

- Secure message between care managers and patients
- Generate case summaries

Notes:

# Oncology

## Section 6



April xx, 2016

# Oncology

Not  
Started

 Design in  
Progress

 In  
Development

 Released Cont.  
Development

 Status Update

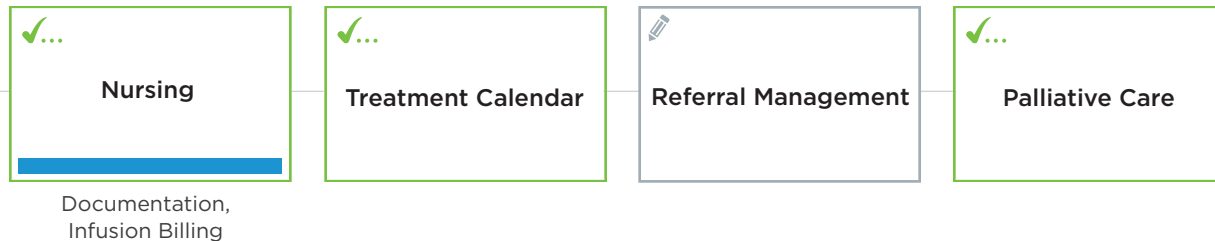
## Provider

Supporting the oncology provider's workflow with intelligent, efficient, and highly usable solutions.



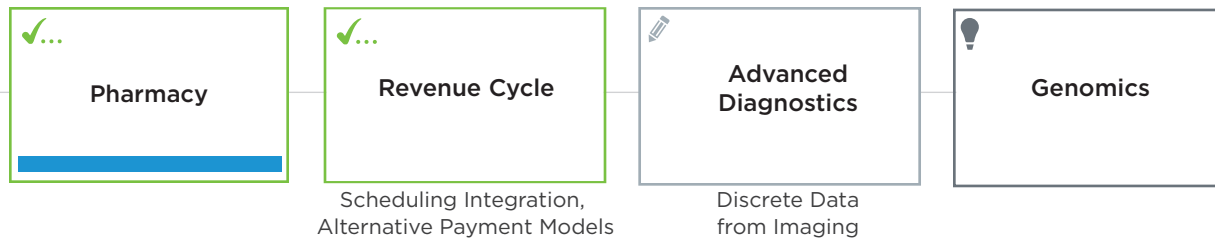
## Nursing & Care Coordination

Clinical staff engaging as they become part of the patient's care team



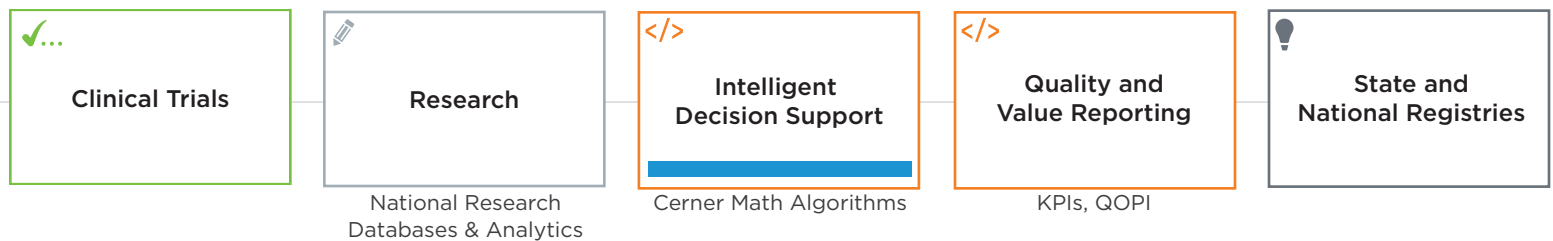
## Ancillary Departments

Supporting the oncology workflow and treatment of cancer through an integrated EMR to achieve the best outcomes with the lowest cost.



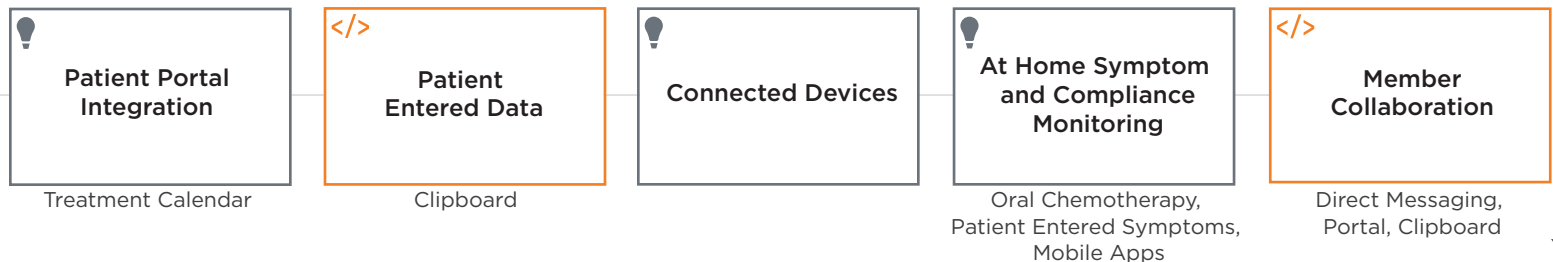
## Research, Intelligence, & Quality Reporting

A consolidated view of instructions, goals, activities, education, and objectives for the individual across time and venues.



## Shared Engagement (P2+M)

Engaging the person, family, and support network as part of the care team in their cancer treatment



# Highlights - Oncology



Notes:

 <b>Chart Review</b>	 <b>Care Pathways</b>	 <b>Chemotherapy Ordering</b>	 <b>Documentation</b>
<ul style="list-style-type: none"> <li>● Chemotherapy Dosing MPage</li> <li>● Oncology Flowsheet Improvements</li> <li>● Patient Timeline</li> <li>● Advanced Radiation Oncology Interface</li> </ul>	<ul style="list-style-type: none"> <li>● Leverage patient information provided through the portal</li> <li>● Access to Care Pathways from multiple areas of the patient chart</li> <li>● Operational Reports</li> <li>● Address complex, chronic, or worsening conditions</li> <li>● Expand scope to cross-organizational, cross-venue, multi-disciplinary pathways</li> </ul>	<ul style="list-style-type: none"> <li>● Proposed Plan &amp; Route for Review Improvements</li> <li>● Cycle Specific Ordering</li> <li>● Modify Single DOT</li> <li>● Regimens in MOEW</li> <li>● Advanced Copy Forward leveraging Protocol Variance</li> </ul>	<ul style="list-style-type: none"> <li>● Toxicities Workflow Mpage Documentation</li> <li>● Content for Direct Entry Component</li> <li>● Treatment Plan that meets requirements for Oncology Care Model</li> <li>● Tumor Board Multi-Contributor Documentation</li> </ul>
<p>Coming by October 2016</p>	<p>Coming by October 2016</p>	<p>Coming by October 2016</p>	<p>Coming by October 2016</p>
<ul style="list-style-type: none"> <li>● Staging Workflow Mpage Component - Phase 1</li> <li>● Chemotherapy Review Workflow Mpage Component</li> </ul>	<ul style="list-style-type: none"> <li>● Contextually intelligent questions to drive algorithms for protocol treatment</li> <li>● Indicate whether patient is on or off a specific pathway</li> <li>● Treatment and impression populate Dynamic Documentation note</li> <li>● System suggested care pathways</li> </ul>	<ul style="list-style-type: none"> <li>● DOT Management Improvements</li> <li>● Protocol Variance</li> <li>● Schedulable Orders in a DOT Phase</li> <li>● Pediatric Hydration</li> <li>● Standard Order Set Content</li> </ul>	<ul style="list-style-type: none"> <li>● Treatment Summary</li> <li>● Oncology Dynamic Documentation Templates</li> </ul>

# Highlights - Oncology



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Nursing

- Nurse Navigator Workflow
- Multi-Container Medication Dispensing
- Oncology Launchpoint
- Palliative Care Integration

Coming by October 2016

- Treatment Calendar
- Automated Infusion Billing
- Cancer Survivorship Content

✓...

Pharmacy

- Lifetime Cumulative Dosing Enhancements
- Dose Calculator Services Rewrite
- Dual Verification

Coming by October 2016

- Quick Win Usability Improvements
- Additional Pharmacy Patient Monitor (PPM) filters to support Oncology workflows

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Intelligent Decision Support

- HLH
- Embedded in Care Pathways
- Support different types of alerts & interventions

Coming by October 2016

- Predictive Algorithms embedded in Oncology Workflow
- Febrile Neutropenia, Tumor Lysis Syndrome, Neuropathy, Thrombocytopenia

Notes:

# Perioperative

## Section 7



April XX, 2016

# Perioperative

💡 Not Started

✎ Design in Progress

</> In Development

✓... Released Cont. Development

■ Status Update

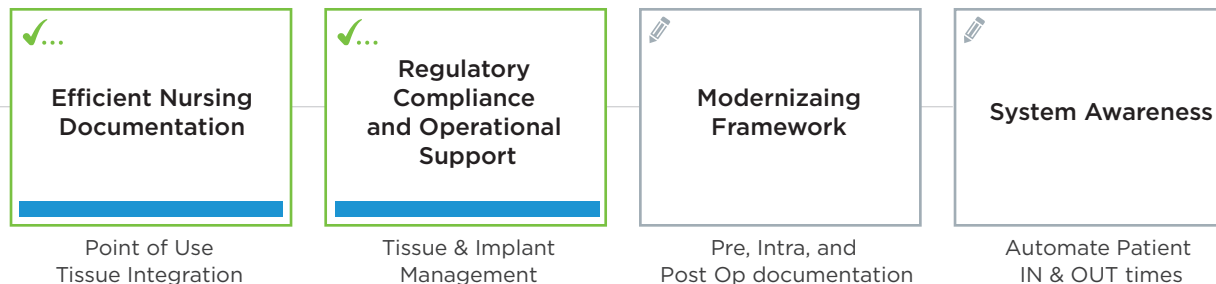
## Patient Centered Care

Individualizing evidence-based protocols across the healthcare continuum, mitigating the risk of perioperative complications and promoting enhanced recovery after surgery.



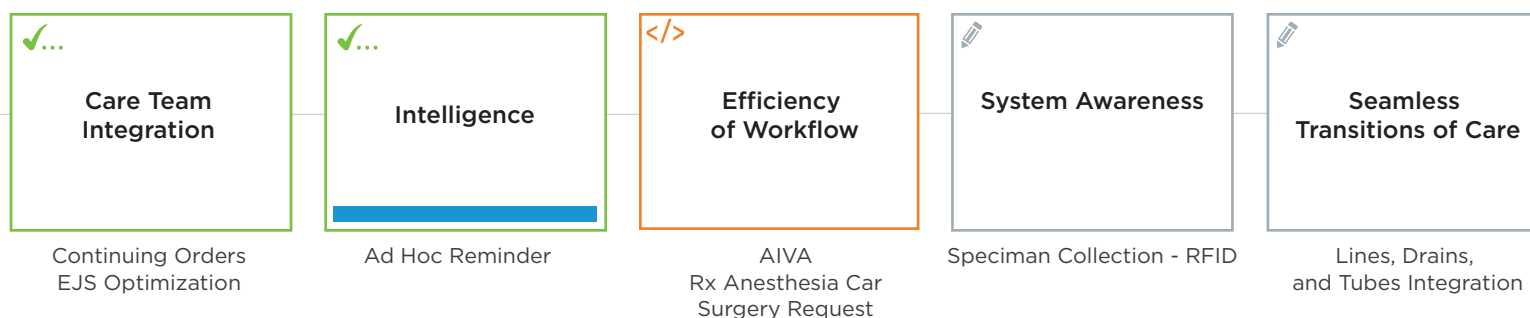
## Efficient & Empowered Clinical Staff

Enhancing clinical documentation and integration with other Millennium solutions to improve the end user experience.



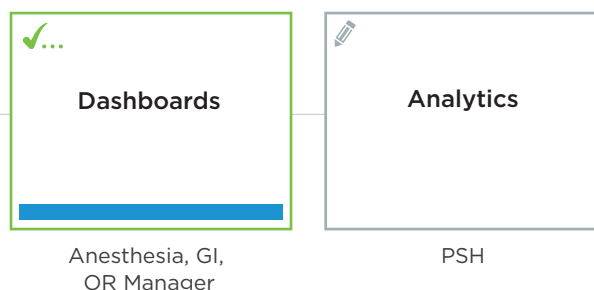
## Provider Efficiency

Streamlining end user workflow and laying the foundational framework for a more intelligent solution to aid in clinical decision support.



## Operational Management

Leveraging data to drive clinical, financial, and managerial decision making. By providing avenues to proactively predict future trends, make adjustments in real-time, or correct based on past outcomes.





# Highlights - Perioperative



Notes:



## Efficient Nursing Documentation

### Enhanced Case Picklist

- Utilize bar code scanning to reduce manual documentation of supply usage
- Reduce duplicate documentation between case pick list and clinical documentation
- Enhanced accuracy of inventory usage, charging and case costing



## Regulatory Compliance and Operational Support

### Tissue and Implant Mgmt

- Eliminates duplicate documentation in clinical record
- Creates efficiencies in documentation of implants
- Utilizes bar code scanning functionality
- Records implant in patient's permanent medical record
- Complies with accrediting and regulatory body requirements related to documentation and tracking of biological implants.
- Provides a chain of custody approach for the management of biological surgical implants.



## Intelligence

### Anesthesia Reminders

- Enhanced UI to accommodate the new functionality
- Laying the framework for more automated rules and reminders functionality.
- Designed to support all aspects of the anesthesia workflow, which is a market differentiator



## Dashboards

### Perioperative Dashboards

- Safeguards revenue streams by ensuring compliance with regulatory bodies for medically supervised cases.
- Benchmark physician outcomes by measuring 6 components of colonoscopy cases and incomplete procedure by reason.
- Continuous display of real-time departmental metrics as the day progress, providing key information for proactive management of the OR.
- Historical view of key operational metrics to identify pitfalls in day-to-day operations