

Health Forum

Internal Audit of an Electronic Medical Records System

November 2020

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What this session will cover....

An EMR system and its objectives

The HIMSS Analytics EMR Adoption Model

Internal audit frame of reference

Considerations for audit process

Auditing practicalities and key governance gateways



An ERM system and its objectives....

Australian landscape





EMR broad objectives



Enhance clinical outcomes

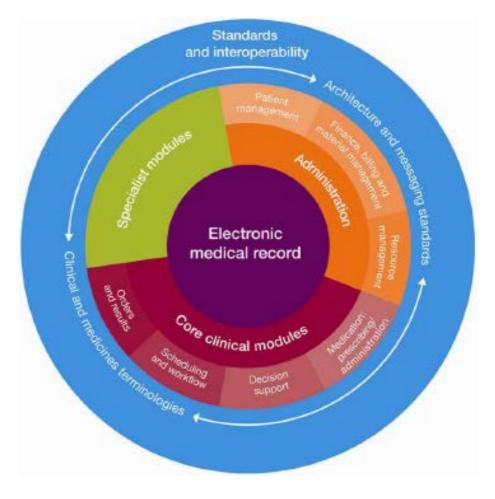
Improve patient experience

Enable broader availability of medical records



Contribute to efficiencies and cost savings

An EMR system



* Figure 1 – Victorian Department of Health and Human Services



The HIMSS Analytics EMR Adoption Model....

- Identifies eight levels of EMR capability
- Capability levels range from limited ancillary department (0) systems through to a paperless and highly integrated EMR environment (7)
- Different levels of maturity result in different risk landscape
- Middle level of maturity creates higher level of risk due to hybrid environment

STAGE	HIMSS Analytics® EMRAM EMR Adoption Model Cumulative Capabilities
7	Complete EMR; External HIE; Data Analytics, Governance, Disaster Recovery, Privacy and Security
6	Technology Enabled Medication, Blood Products, and Human Milk Administration; Risk Reporting; Full CDS
5	Physician documentation using structured templates; Intrusion/Device Protection
4	CPOE with CDS; Nursing and Allied Health Documentation; Basic Business Continuity
3	Nursing and Allied Health Documentation; eMAR; Role-Based Security
2	CDR; Internal Interoperability: Basic Security
1	Ancillaries - Laboratory, Pharmacy, and Radiology/Cardiology information systems; PACS; Digital non-DICOM image management
0	All three ancillaries not installed





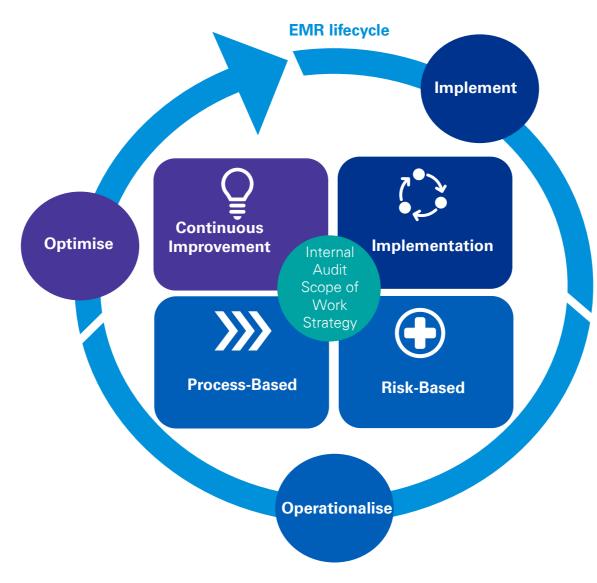
Increased complexity, highly integrated, easy to use

Lower complexity, limited modules, record scanning

Risk funnel

Internal audit frame of reference....

Defining scope of work for an EMR audit – lifecycle approach







Implementation

Why

Identify and mitigate risks that could impact EMR being successfully embedded and objectives achieved

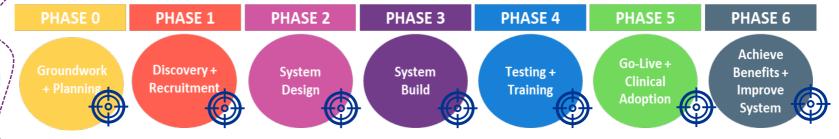
How

 Ongoing assurance through point in time checks, not rated

What

 Governance, risk management, achievement of intended outcomes

Indicative EMR implementation phases – ongoing point in time checks along the way.....



Areas of focus.....



System integration



Clinician engagement and buy-in, education and training



Go-live management



Benefits realisation, capture and management



Talent management



Celebrating success

Learning from others.....



Healthcare transformation expertise



Key risks and issued faced



Implementation key challenges



Post mortem lessons learnt



Feedback and tips for implementation



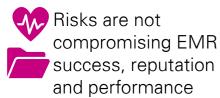
Critical success factors and key benefits





Risk-Based

Why



How

Deep dive cyclical review, rated

What

- Test design and operating effectiveness of risk mitigations
- Identification of other risk exposures

Technology Risks

- Access and security
- Data integrity
- Business continuity
- Disaster recovery
- Privacy



Clinical Risks

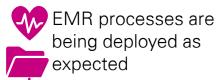
- Medications prescribing and administration
- Clinical decision support





Process Based

Why

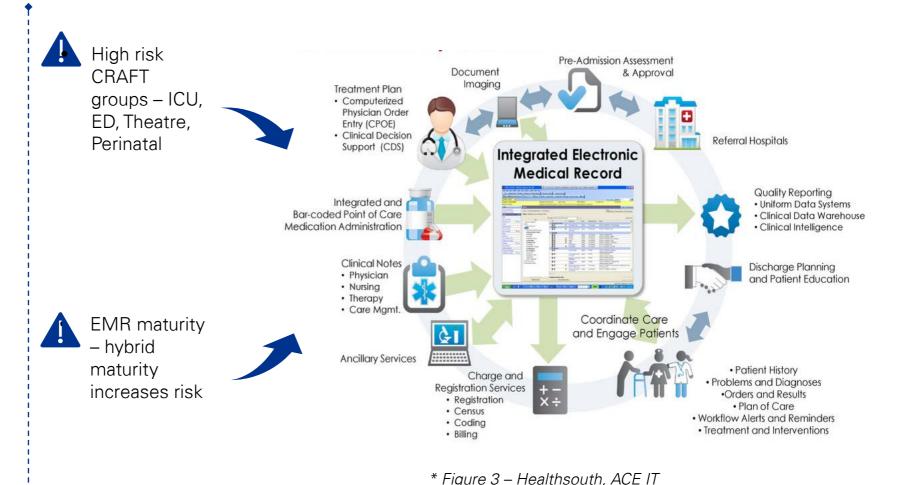




 End-to-end process review, rated

What

- Compliance with policy, procedures and guidelines
- Process improvement opportunities







Continuous Improvement

Why

EMR capability is being fully optimized and is a successful enabler of healthcare outcomes, clinical practice and efficiencies

How

 Continuous monitoring / diagnostic, nonrated

What

 Benchmark of performance against targets with further analysis EMR targets and benchmarks – patient safety and operational efficiency....

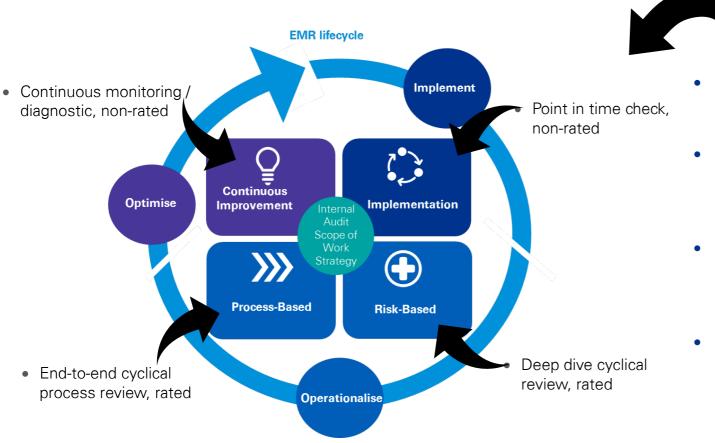
- Improved drug order to administration times
- Decreased cost of paper forms
- Improved quality of coding
- Improved documentation quality
- Pharmacist time savings
- Clinical cost reduction
- Length of stay reduction
- Reduction in drug use and / or cost
- Nursing staff time savings
- Increased use of preventative care

- Patient experience
- Supports research
- Evidence base practice
- Extends access to information
- Excellent care



Auditing practicalities and key governance gateways....

Ongoing lifecycle approach, but must leverage subject expertise



- Be cognizant of the maturity level of your EMR
- Always incorporate clinical expertise and clinician engagement
- Provide recommendations that are targeted, pragmatic and meaningful
- Report through clinical and digital governance gateways



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