

Study on an Outpatient Electronic Medical Record Adoption Model (O
EMRAM) resonating X EMR

PRESENTED BY: NUPUR KAPOOR



Acronyms

- **CDSS:** Clinical Decision Support System
 - **CEHRT:** Certified Electronic Health Record Technology
 - **CPOE:** Computerized Physician Order Entry
 - **EMR:** Electronic Medical Record
 - **EP:** Eligible physician
 - **HIE:** Health Information Exchange
 - **HIMSS:** Health Information Management System Society
 - **HL7:** Health Level Seven International
 - **OEMRAM:** Outpatient Electronic Medical Record Adoption Model
 - **PACS:** Picture Archiving Communication System.
 - **PCP:** Primary care physician
- 

Research Questions:

1. What is an Outpatient Electronic Medical Record Adoption Model (O EMRAM) for US Healthcare?
2. How Hospital ‘Y’ is compliant with respect to the Eight OEMRAM Stages?

Objectives:

1. To study the compliance requirements of Outpatient Electronic Medical Record in Eight stages
2. To understand an ‘X’ Electronic Medical Record (EMR) Software resonating with O EMRAM
3. To assess the existing O EMRAM stage of ‘Y’ Clinic and provide suggestion for upgradation from existing stage

***Clinic “Y” is large hospital in US healthcare and name is removed due to compliance requirement.

***EMR “X” is a large EMR software used globally, the name is removed due to compliance requirements

Sampling technique:

Purposive sampling for objective three, mapping done from the checklist to match the Clinic in location A,
One Y Clinic is selected

Inclusion:

- 1.Standalone Clinics for one specialty which practice the studied Electronic Medical record Software
- 2.500 bedded Hospital.
- 3.Average Outpatient visit/Day in a clinic should be 50 patients.
- 4.Studied specialty is family Medicine Family as a clinic.

Exclusion:

- 1.Facilities, which use two or three types of EMR for their outpatient services.
 - 2.Specialty in clinics other than Family Medicine for the Outpatient setting.
- 

The method of data collection:

Reviewing secondary data, of the facilities from the EMR software with the checklist made

Data collection tool:

Checklist based on prerequisites required in Outpatient EMR adoption Model for certification.

Study duration:

Two months (March, 2017-April, 2017)



Objective 1: Compliance requirements of O EMRAM

Introduction

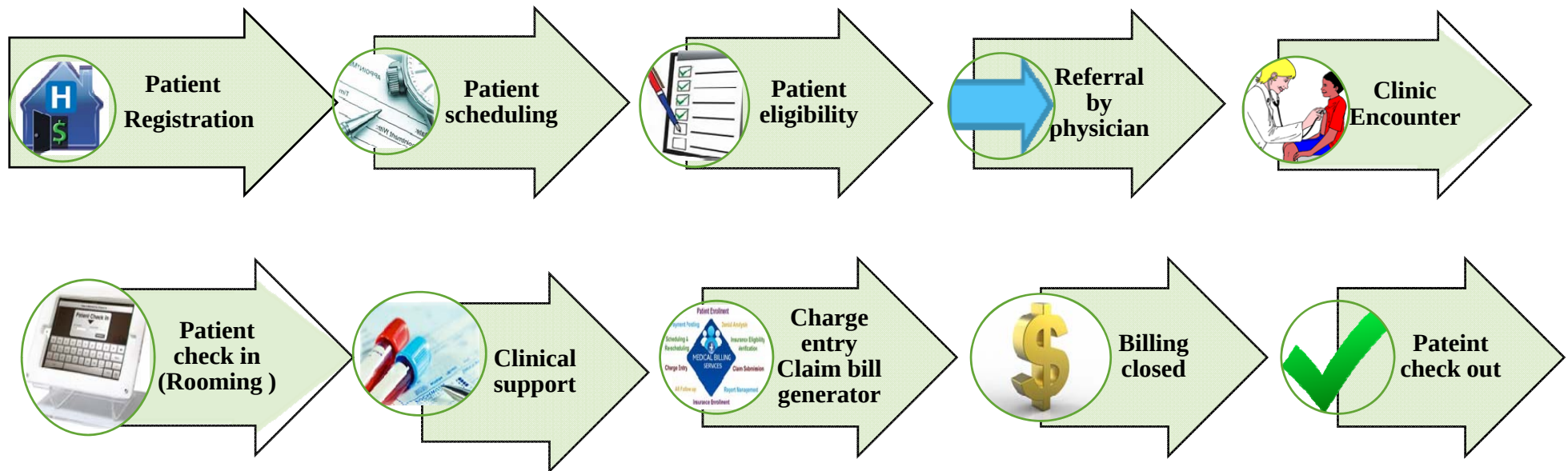
HIMSS (Healthcare Information and Management Systems Society)

- Not for-profit Organization
- Found in 1961 as the Hospital Management Systems Society. Headquartered at Chicago, Illinois.
- Dedicated to improve quality ,safety ,cost effectiveness and access through best use of Information technology and management systems in healthcare

HIMSS Analytics four Healthcare Provider Models

1. Outpatient Electronic Medical Records Adoption Model (O EMRAM)
2. Electronic Medical Records adoption Model (EMRAM)
3. Continuity care maturity Model
4. Adoption Model for Analytics Maturity

Workflow of Patient in an Outpatient visit



The benefits of adopting O-EMRAM

Compliant with Meaningful use

- Better Clinical and Health outcomes
- Creating Infrastructure for Quality Deliverables
- Improves safety and efficiency of Patient care
- Empowered Individuals

Charting progress and Accomplishments

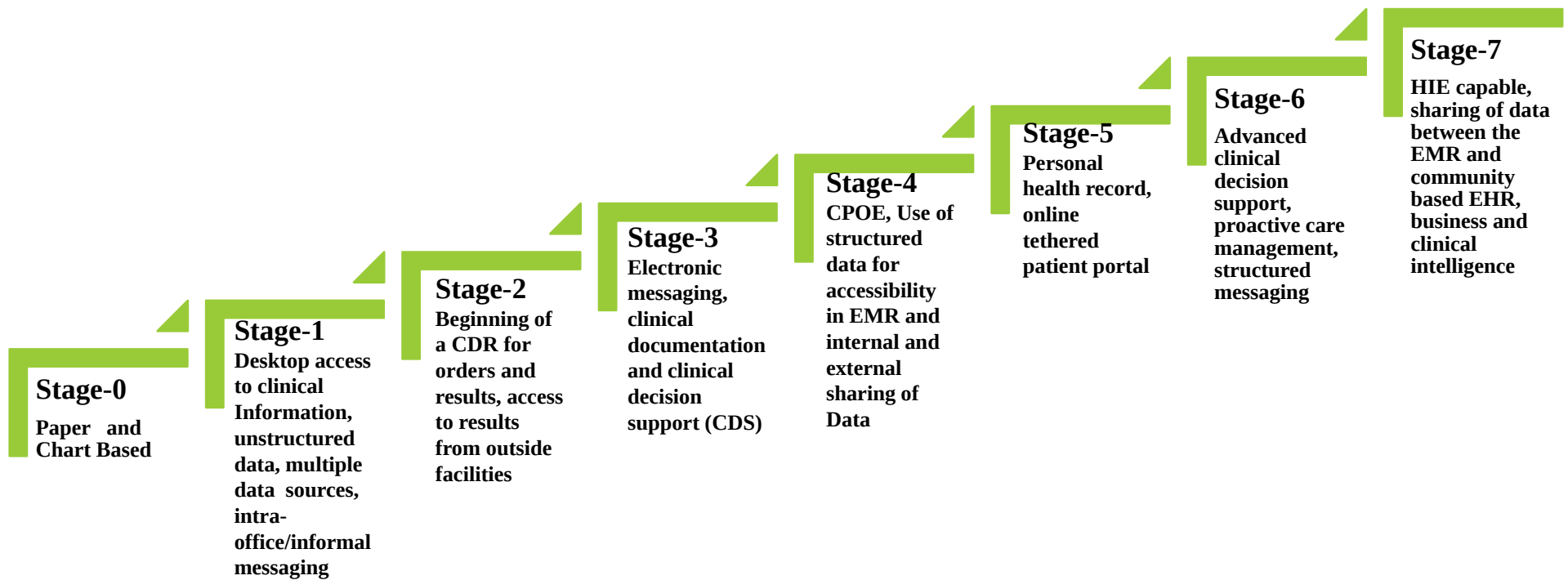
**Emphasize Data analysis by
generating reports**

**Compare Data with other
EMRs**

**Evaluate and Implement for
HIMSS Stage 7**

**Improve scope for
innovations**

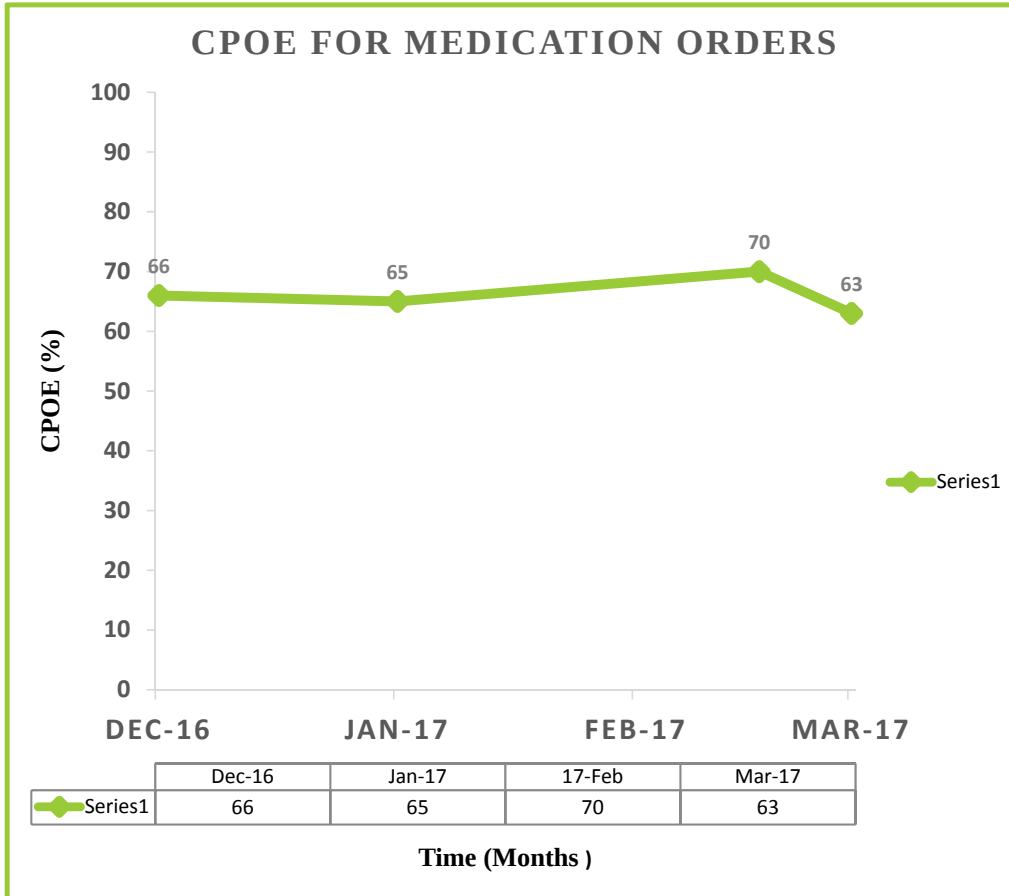
US Healthcare O EMRAM



Objective 2: The X software is found to be capable enough to be stage 7 certified for OEMRAM

Objective 3: Outcome of the studied sample

Computerized Physician Order Entry for Medication Orders



For stage 7 compliance:

Average of four Months came out to be **66%**, which does not suffice the standard of **95%**, required for Outpatient setting.

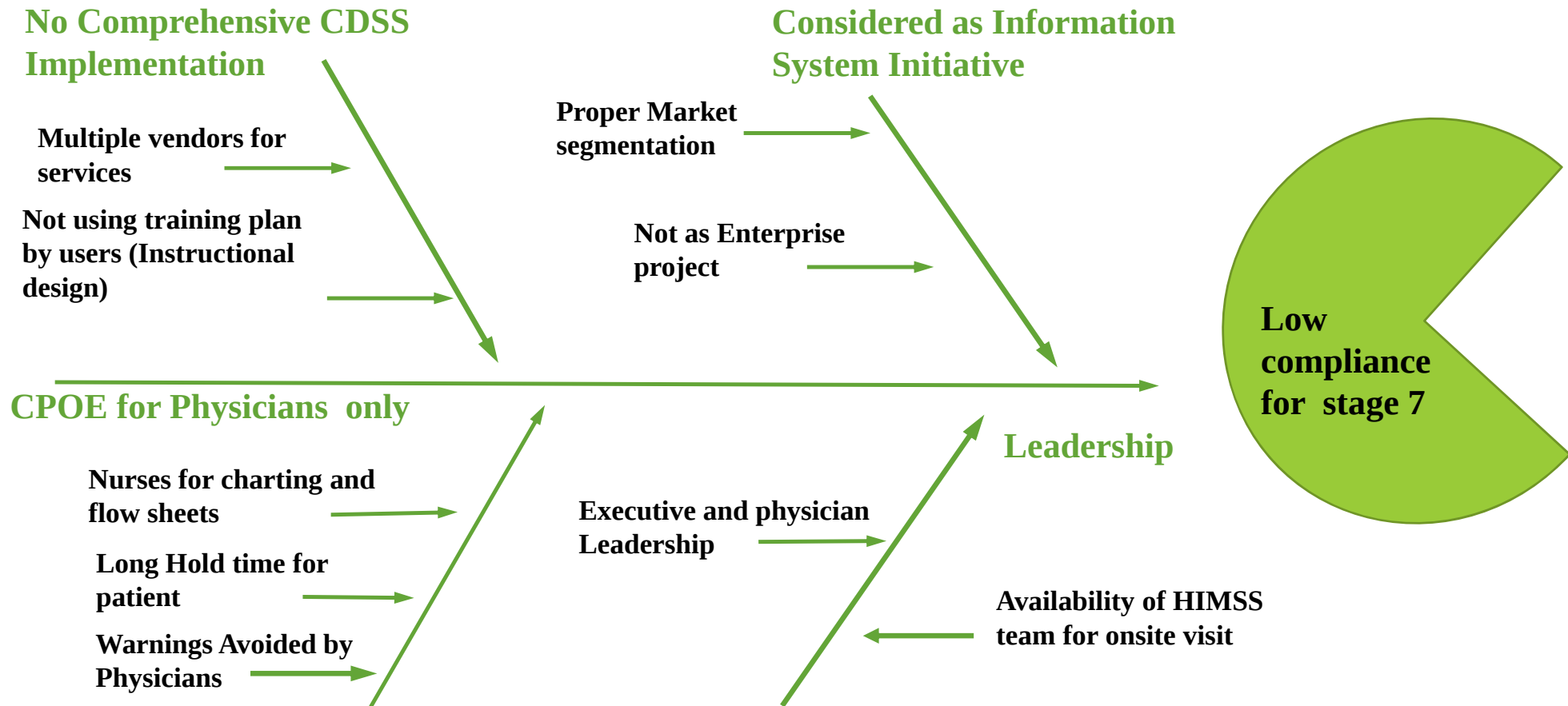
Therefore, 'Y' clinic is not a complaint to Stage 7 standards.

Currently, Y clinic (Family medicine) is on Stage 6 based on the checklist made and mapped with the clinic's Functional X EMR.

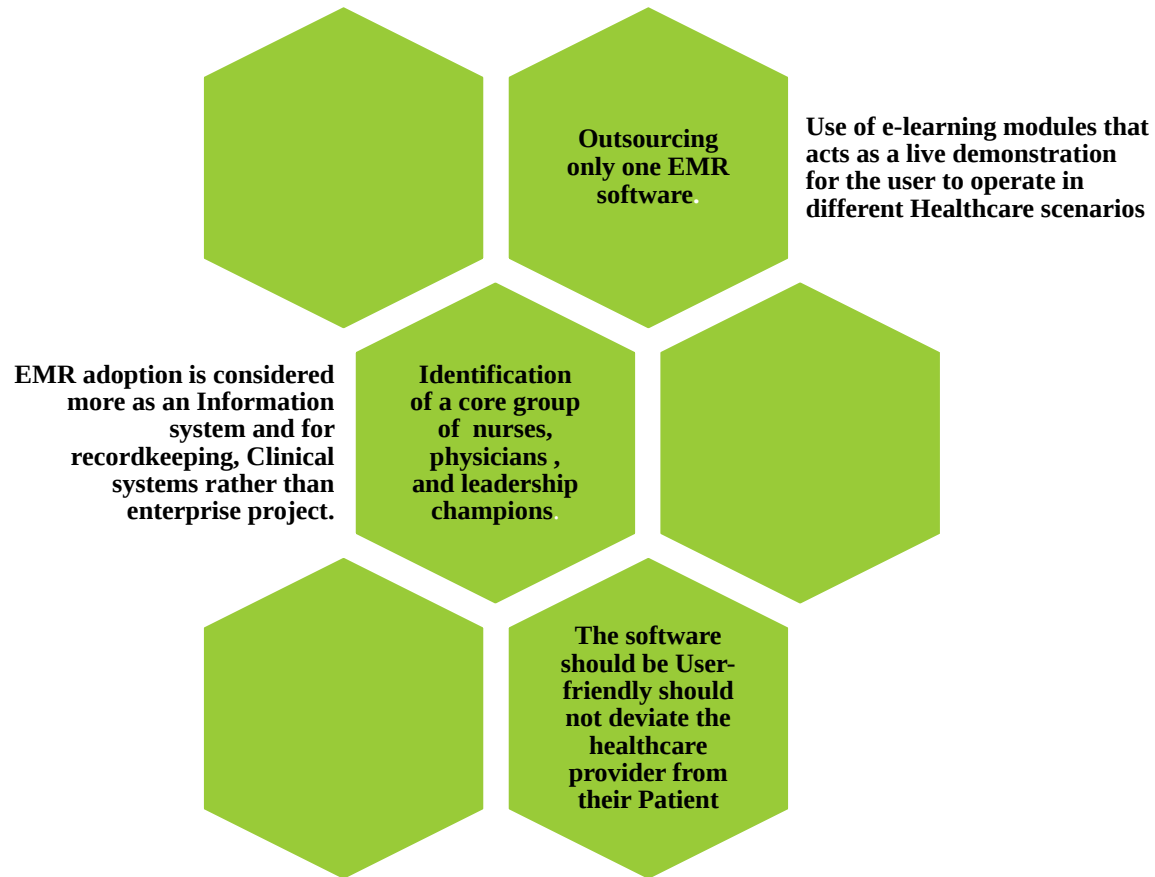
Meaningful Stage-1 and 2 Requirements

Objectives	MU 1	Outcomes MU 1 (4 Months)	MU stage 2	Outcomes MU 2 (4 Months)
Computerized Physician Order Entry for Medication Orders	More than 30%	66 %	More than 60%	satisfied
Prescription Electronically	More than 40%	68 %.	More than 50%	Satisfied
Access to patient access, in the from of Online portal	More than 50%	Report could not run	More than 50%	Report could not run
Patient engagement: Specific Health Education for patients	More than 10%	34%	More than 10%	Satisfied

Challenges of Stage-7 Compliance for “Y” Clinic



Suggestions for Stage-7 Compliance



Limitation and Challenges

1. Onsite view of the Software from user's perspective was not accessible.
2. The Data files because of Denied access could not be run for calculating the compliance rates in percentages.

Q&A

Thank You !