Integrating Electronic Health Record into pre-clerkship ClinicalSkills Curriculum

Accelerating Students Uptake for Informatics Data Science Skills

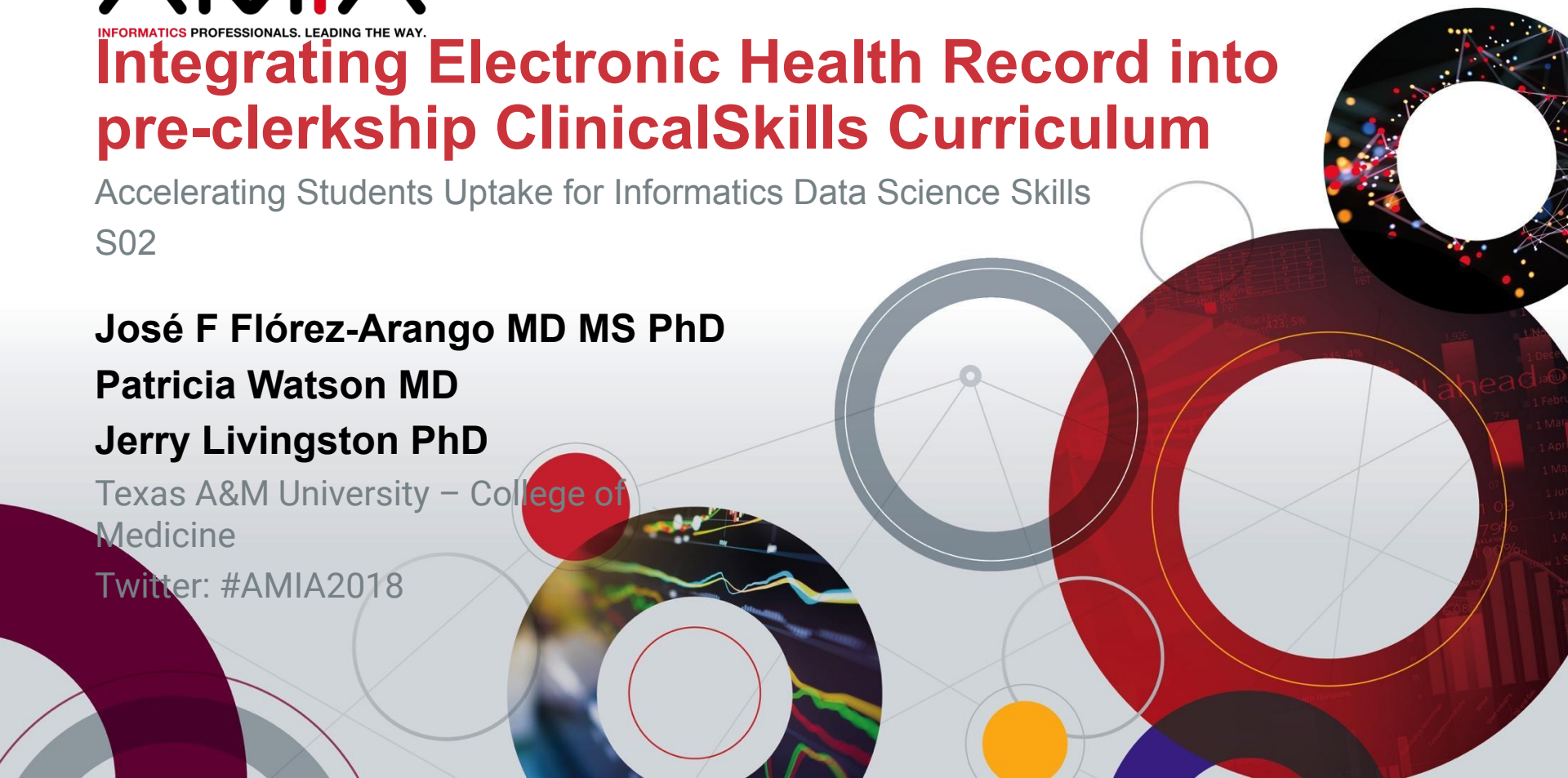S02

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Disclosure

I and my spouse/partner have no relevant relationships with commercial interests to disclose.

Learning Objectives

After participating in this session the learner should be better able to:

- Describe the content of one EHR pre-clerkship curriculum
- Enumerate the skills developed
- Identify challenges in the implementation

Agenda

Motivation

Curriculum

Implementation Process

Current Status

Students Evaluation

Future Work

Motivation

Documenting clinical encounters is an essential clinical skill.

CMS documentation policy .

Early exposure and training present to attack one of the main sources of burnout by training properly our student on a critical approach to the use of a EHR.

LCME

Implementation Process

PoM 1	PoM 2	PoM 3

Bootcamp	PETA	Intersession	OSCE	Differential Diagnosis	Special Populations	Hospital Sim	OSCE	Clinical Reasoning	Preceptorship	Hospital Sim*	OSCE

Curricular Content

What is an EHR?

Structure of EHR

Modeling of EHR (Source Oriented vs Problem Oriented Medical Record)

HIPAA

Meaningful use

Optimization of registry

Human Factors

Data Visualization

Chart Biopsy

Types of Notes

The setup

In-house server

VPN

OpenEMR

Tasks

Create a patient as

    <Last_name> PoM Sessions, <First_name>

Practice logs New Encounters

    Encounter brief description: Activity description

    No PHI

Chart Biopsy

    No documentation

OSCE Encounters

    Encounter brief description:

    SOAP note

Some data

Number of patient per student : Mean: 2.7 Median: 1 [1-35]

Encounters:

	PoM 1	PoM 2	Cumulative
Min	1	1	2
Max	63	42	90
Average	22.07	15.1	36.02
Median	23	11.5	34

Correlation between number of encounters recorded and performance on OSCE (Physical Exam and Note writing)

Challenges

User creation -> upload script

Class management

Patient creation

Engagement

Future work

More supervised hands-on exercises

Solve peer-to-peer practice note

Active directory

Thank you!

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