Electronic Medical Records in Education

Learning Objectives

- **Understanding EMR**: Learning about the Electronic Medical Record (EMR) and its role in healthcare.
- **Implementation Skills**: Developing skills in implementing EMR software in educational settings.
- **Assessment Methods**: Understanding assessment methods for evaluating EMR educational outcomes.

Benefits

- **Enhanced Learning Experience**: EMRs provide a realistic learning environment that bridges theoretical knowledge and practical application.
- **Interprofessional Collaboration**: Students from different disciplines can work together and share patient care, enhancing teamwork skills.
- **Improved Retention**: Simulated patient cases can help students retain information better.

Infrastructure Required

- **Technical Support**: Adequate technical support is crucial for maintaining the EMR system.
- **Software Compatibility**: Ensuring the EMR software is compatible with educational needs.

Implementation Timeline

- **0-2 months**: Design and setup of the EMR environment.
- **3-6 months**: Development of EMR content and training for faculty.
- **6-9 months**: Deployment of EMR in the classroom environment.
- **9-12 months**: Integration of EMR into the curriculum.

Resources and Governance

- **Growth**: Continuously expanding the EMR simulation environment.
- **Faculty Development**: Regular training sessions for faculty.
- **Student Feedback**: Regular surveys to gather student feedback and improve the EMR experience.

Outcomes

- **Student Learning**: Improved understanding of EMR concepts and enhanced critical thinking skills.
- **Faculty Feedback**: Positive feedback from faculty on the integration of EMR into the curriculum.

Challenges

- **Cost**: Initial investment and ongoing costs for EMR software.
- **Technical Support**: Ensuring technical issues are resolved promptly.
- **Compliance**: Adhering to regulatory requirements for EMR systems.

Feedback

- **Student Survey**: High satisfaction with the EMR simulation environment.
- **Faculty Survey**: Positive feedback from faculty on the EMR integration.

Takeaway

- The integration of EMR simulation into the curriculum enhances student learning and prepares them for future careers.
- Collaboration between educators and technologists is essential for successful implementation.

**What is emrU?**

- **Definition**: EMR simulation and electronic curriculum content delivery system.
- **Purpose**: Enhance, facilitate, and expose students and faculty to the use of EMR in education.

**Background**

- **Current Practice**: Many health science students are typically not exposed to an EMR system until the latter part of their education.
- **Goal**: Early exposure to EMR to ease transition to clinical experiences.

**Implementation**

- **Key Components**: Student and faculty access, infrastructure, and training.
- **Timeline**: 12-15 months for implementation.
- **Budget**: 1.5 FTE/2+ years.

**Infrastructure Required**

- **Server**: Dedicated server for EMR simulation.
- **Software**: EMR software compatible with educational needs.

**Student and Faculty Access**

- **Account Creation**: Easy setup for student and faculty access.
- **Password Reset**: Mechanism in place for password resets.

**Implementation**

- **Epic EMR Software**: Environment dedicated to health science education.
- **Clinical Simulation**: Realistic patient scenarios for training.

**Benefits**

- **Enhanced Learning**: Simulation provides a realistic learning environment.
- **Interprofessional Collaboration**: Students work together on patient care.

**Student Feedback**

- **Survey Results**: High satisfaction with EMR modules.
- **Improvement**: Students report improved understanding of EMR concepts.

**Faculty Feedback**

- **Positive Comments**: Faculty recognize the value of EMR simulation in education.
- **Challenges**: Addressing technical issues and integrating EMR into the curriculum.

**Conclusion**

- **Integration of EMR**: Essential for modern healthcare education.
- **Future Directions**: Continuous improvement and expansion of EMR simulation.

**References**


**Acknowledgments**

- Acknowledging the contributions of all team members involved in the EMR simulation project.

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**Feedback and Outcomes**

- **Survey Results**: High satisfaction with EMR simulation environment.
- **Faculty and Student Feedback**: Positive feedback on the integration of EMR in education.

**Challenges**

- **Integration**: Balancing the technical setup with educational objectives.
- **Faculty Training**: Ensuring faculty are adequately prepared to use the EMR.

**Takeaway**

- **Key Message**: The integration of EMR simulation is a valuable tool for enhancing student learning in healthcare education.
- **Future Directions**: Continuous evaluation and improvement to maximize the benefits of EMR simulation.

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**Resources**

- **Website**: EmrU.org (accessed 01/2023).

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**Contact Information**

- For more information contact: Boyd Knosp, MS (boyd-knosp@uiowa.edu), David Asprey, PhD (david.asprey@uiowa.edu), Douglas Van Daele, MD (douglas.van.daele@uiowa.edu), or the College of Pharmacy (515-384-0620).