



WELCOME





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OBJECTIVES

- Discuss the background of JMedSIM and MHS simulation programs
 - ☐ Review the JMedSIM project development goals/plan of action
- **□** Outline current project development efforts

HISTORY / BACKGROUND

Problem:

No standardized curriculum for healthcare sim facilitators in the military

Solution:

- 2018 Army Telemedicine command funded a needs assessment
 - JMedSIM project is born
 - Goal: 1. Improve facilitator training (instructors and operators)
 - 2. Develop a central repository that all can access asynchronously
- 2020 Defense Medical Modeling and Simulation Office assumed the project.
 - Coordination among the Army, Navy, Air Force and VHA.
 - Establishing roles, career expectations, and professional development.
 - Host an e-learning platform for all.
 - Supplement with hands-on courses at worldwide military sim centers.



JMedSIM GAPS

Lack of knowledge, skills and confidence in utilizing simulators for medical modeling and simulation (MM&S) education & training

- ☐ Equipment sits in closets because trained operators/instructors moved (no continuity/frequent change over)
- □ No way to consistently/ continuously teach new personnel at sites on a variety of equipment and training practices (travel not realistic, costly)
- ☐ No standardized roles/ responsibilities/ expectations for the MM&S team and support elements
- ☐ No standardized simulation template/ scenarios or development processes
- ☐ No centralized way to share approved/vetted scenarios and training materials/resources



JMedSIM PLAN OF ACTION

JMedSIM Online Learning MM&S **Operator** and MM&S **Facilitator** Tracks

DHA LMS/ Joint Knowledge Online Pre-Requisite to Hands-On Learning

Continuing Education Hours

JMedSIM Hands-On Learning

Regional Simulation Centers

SME Over-the-Shoulder Practice on MM&S Equipment & Students

Prep for MM&S Certification

MM&S Data Repository, Community of Interest Simulation Development Tools Simulation Scenario Library Best Practices/ Lessons Learned SME Support/ Mentoring

Joint MM&S Professional

Development/

Certifications

Standardized Roles/ Requirements Special MM&S
Experience
Identifying codes

MM&S Career Progression Tracks

Sustainment/
Progression Training
Opportunities/CEs

SIMULATION: BRINGING L'EARNING TO

I M S H 2 0 2 1

ONLINE LEARNING TRACKS







Foundations

Completed by Operators and Facilitators to stress importance of teamwork and shared tasks

- MM&S in Joint Healthcare
- Healthcare Concepts
- Non-Technical Skills
- MM&S Advocacy
- MM&S Equipment/Tools
- MM&S Resources/Mgmt
- Instructional Design Concepts
- Feedback/Analysis

Operators

- Healthcare Sim Operator in the MHS
- Maintenance/ troubleshooting equipment
- Technology (A/V, IM/IT, Simulators)
- Moulage and Simulated Environments
- Overview of common simulation equipment/ manikins

Facilitators

- Healthcare Sim Facilitator in the MHS
- Facilitation
- Simulation-Based Ed concepts/ theories
- Simulation-Based Curriculum
- Scenario/Case Design
- Scenario Execution
- Debriefing
- Inter-professional education (IPE)





HANDS-ON LEARNING/PRACTICE







Regional Sites

- Capitalize on large sim centers already conducting hands-on training
- High volume of student throughput and MM&S capabilities
- Standardize hands-on curriculum across the MHS

Subject Matter Experts

- Multiple SMEs at regional sites
- Different disciplines for breadth of knowledge

Certifications

- Review of certification opportunities
- Graduates primed and able to challenge certifications





MM&S DATA REPOSITORY/Col







MM&S Development Tools/ Library

- Simulation development tools
- Library of pre-developed scenarios
- Multimedia and resources to support MM&S activities

Best Practices/ Lessons Learned

- Capture and share MM&S knowledge and experiences
- Frequently asked questions answered

SME Support/ Mentoring

- SMEs across the MHS who specialize in all aspects of MM&S training
- Volunteers to mentor/assist MM&S community





JOINT MM&S PROFESSIONALS







Standard MM&S Roles/ Experience Codes

- Establish standard MM&S roles and expectations across the MHS
- Associate Joint or Service special experience identifier/code for MM&S

MM&S Career Progression Tracks

 Develop Joint or Service MM&S career progression tracks for AD (Officer/Enlisted) and CIV

Sustainment/ Progression Training Opportunities

- Develop, share, and support professional development opportunities
- Continuing education hours for certification renewals





CURRENT EFFORTS

- PADDIE (plan, analyze, design, develop, implement, & evaluate)
 - MHS Request Submission Portal: J-7 Education/Training & J-5 Analysis/Evaluation
 - Gathering expert insight from MM&S SMEs
 - Job/Task Analysis to end users
 - Understand roles/expectations/how MM&S is utilized in MHS
 - Understand audiences across a variety of training sites
 - Determine gaps to address/stress with courses
 - Review current courses developed in silos (don't reinvent wheel)
- Ahead: from analysis results, will design/develop courses then implement, evaluate and sustain



SUMMARY

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QUESTIONS?

For more information, contact the Defense Medical Modeling and Simulation Office (DMMSO):

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#IMSH2021 SIMULATION: BRINGING LEARNING TO LIFE



