UAMS EHR and Medical Informatics Training for Arkansas

Jan K. Hart, MLS, Ed.D
University of Arkansas for Medical Sciences
UAMS Library
November 7, 2009

Arkansas – Beautiful…..

Images from the Arkansas: the Natural State Photo Gallery

Arkansas – a rural state

Images from the Arkansas: the Natural State Photo Gallery

Arkansas – small towns

Delta – underserved population

Arkansas – pretty sharp cities


Missouri
Bentonville
Mtn. Home
420,000
Springdale
Fayetteville
Jonesboro
ARKANSAS
Arkansas River
West Memphis
TN
Oklahoma
Fort Smith
850,000
Little Rock
Mena
Hot Springs
Mississippi River
Pine Bluff
Hope
Texarkana
Red River
Mississippi
El Dorado
Louisiana
Texas

University of Arkansas for Medical Sciences Campus

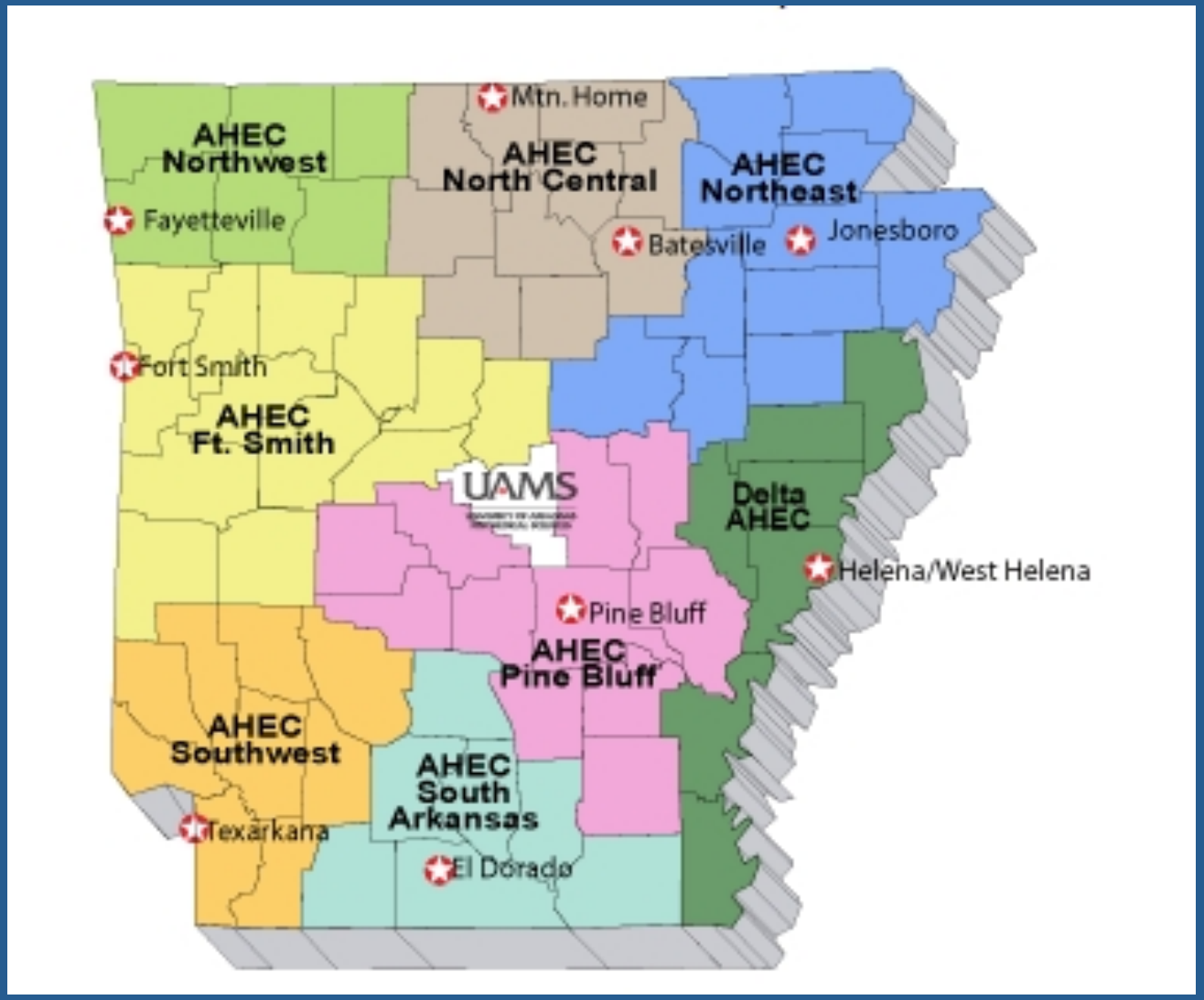
University of Arkansas for Medical Sciences

- Only academic health sciences center in state
  - Satellite campus in northwest Arkansas
- 2,775 students in 5 colleges + Graduate School
  - Health Related Professions
  - Medicine
  - Nursing
  - Pharmacy
  - Public Health

University of Arkansas for Medical Sciences

- Vast majority in-state students
  - COM – 1st in % of students from within state
- Vast majority return to practice in Arkansas
  - COM – 3rd in % of students who remain in state
- After add'l training out-of-state many return
  - COM – 5th in % of residents and fellows remain in state
- Very diverse faculty

Area Health Education Centers (AHECs)



EHR Stimulus

- HiTech Announcement (3015)
  - ‘demonstration projects to develop academic curricula integrating EHR technology in the clinical education of health professionals’
- COM Medical Informatics Committee
  - Interdisciplinary
  - Hospital among top 25 most wired hospitals
  - Bigger than EHR – Library participation – evidence-based medicine, decision support, point-of-care tools
  - Tools are readily available

UAMS Stimulus EHR Committee

- Asked to join the EHR Committee
- Enthusiastic support from clinicians, Dir of Clinical Programs, Hospital Director of Informatics, etc.
- EHR Training Committee
  - Associate Dean COM, Director of Medical Informatics for hospital, me
  - Wrote proposal with help from COM Medical Informatics Committee, other associate deans, centralized support staff

Proposal

- To prepare future physicians, nurses, pharmacists, and allied and public health professionals
- to use electronic health records, evidence-based medicine, medical decision support and point-of-care tools
- to reduce errors, improve standards of care, address HIPAA requirements, and meet accreditation standards.
- Attention will be given to standardization of EHR documentation to allow data retrieval for clinical research.

Proposal

- Mock/real electronic patient records will be integrated into the curriculum from students' first introduction to patient care through completion of their formal training
- including classes, clinical simulations, and standardized patient learning activities and OSCE assessments.
- EHR will be presented in an interdisciplinary environment and in college specific curricular activities.

Proposal

- Web-based instructional modules will be used to supplement face-to-face training.
- Clinical librarians (would be added to the Library staff) will participate in training, rounds, and development of evidence-based medicine and clinical resource modules .

Approval

- EHR Committee and chancellor approved
- Most likely funding:
  - Workforce training
  - HRSA
  - develop curriculum anyway
- EHR Training Steering Committee

Deans and Steering Committee

- Visited Deans and their leadership groups
  - Ask for reps for Steering Committee
  - Incredible resources on campus
    - HIM writing book on EHR
- AHEC support
- Centralized support units
  - Library
  - Office of Educational Development
  - Center for Clinical Skills Education

Competencies

- AHIMA and AMIA
  - Joint Work Force Task Force - Health Information Management and Informatics Core Competencies for Individuals Working with Electronic Health Records
  - October 2008
  - Competencies for all disciplines
    - Gap analysis of each colleges
    - Identify shared activities
    - Identify appropriate modalities of training

Competencies

- AAMC/HHMI
  - Scientific Foundations for Future Physicians
    (knowing that this will affect the COM curriculum)
  - Competency M8: Apply quantitative knowledge and reasoning – including integration of data, modeling, computation, and analysis – and informatics tools to diagnostic and therapeutic clinical decision making.

Seminar Series Added

- Five primary concepts
  - **Overview** of Electronic Health Records and emerging technologies
  - Role of EHRs and medical informatics in **health economics and policy**
  - EHR in **clinical research data (nosology)**
  - **Privacy and security** in electronic environment
  - **Ethical questions**
- Embedded in curricula – challenge question from speaker

Mock patients

- Sunrise, Centricity
- Paid health care professional to develop bank of cases with faculty
- Consider use of WebSP for assessment and presentation

Sharing of Enduring Materials

- MedEdPortal
- Other Arkansas higher education institutions with health care programs
- Sharing with hospital and current professionals

Stage Two: The Hospital

- Hospital Director of Informatics
  - Interested in credentialing of health care providers in the hospital
- Upon completion of EHR training at time of graduation – all students credentialed?
- Could we use parts of the same curriculum and enduring materials, selected pieces, possibly modified?

Stage Three: What about Arkansas?

- So why not share the curriculum and enduring materials with practicing health care professionals?
- Looking to ultimate goal of practicing professionals – Shouldn't that be what we are preparing students for?

Statewide Initiatives

- Governor provides leadership
- Surgeon General responsibility
  - Health Information Exchange
- Arkansas Foundation for Medical Care and UAMS through the AHECs responsibility
  - Regional Center
- UAMS prepares students
- Leverage – a full state press
- Chance to spread informatics tools outside the curriculum – statewide DynaMed, free resources, training support for use of informatics tools by UAMS and AHEC librarians

And that's how far we have gotten in planning

We think we can change health care practice for the health care professionals in Arkansas

Questions?

Jan Hart
501.686.6751
hartjanicek@uams.edu