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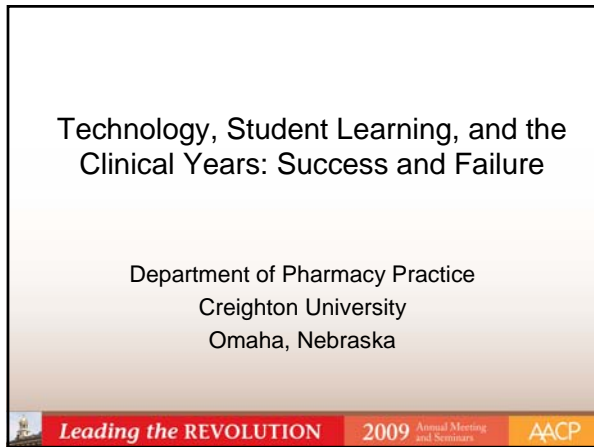
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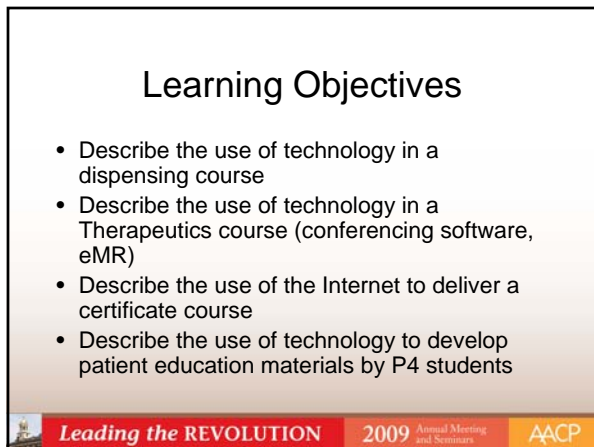
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## Presenters

- Michael Monaghan (*Moderator*)
- Sam Augustine (*Dispensing*)
- Kimberley Begley (*Dispensing*)
- Kelly Anderson (*Therapeutics Online Mentor*)
- Keith Christensen (*Therapeutics IOR and Certificate Instructor*)
- Michele Faulkner (*Ambulatory Rotation*)

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## This Presentation is Available at...

- [www.aacp.michaelmonaghan.org](http://www.aacp.michaelmonaghan.org)

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## At the End of the Presentations...

- Develop a scenario using technology at your program based on the presentations
- Share with the group
  
- Panel Discussion for questions

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## Creighton University

- Entry-level distance pathway using Internet delivery (*classroom capturing software*)
- Laptops
- ADATC and FITT Programs
- Blogs (*Christensen and Therapeutics*)
- iTunes (*modified vodcasts and Therapeutics; app development*)
- eMRs, ePortfolios, HD distance course development

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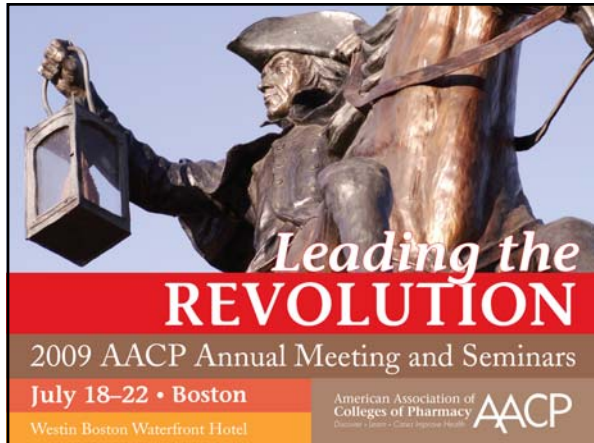
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## The Use of Technology in the Dispensing Laboratory

Sam Augustine, Pharm.D.  
Kimberley Begley, Pharm.D.  
Creighton University  
School of Pharmacy and Health Professions

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## Objectives

- Apply and assess pharmacy management systems in dispensing laboratory
  - Etreby and Qs1
- Apply and assess MTM software to familiarize students with its use
  - MIRIXA
- Apply and assess the use of the Flip Video system in the dispensing laboratory

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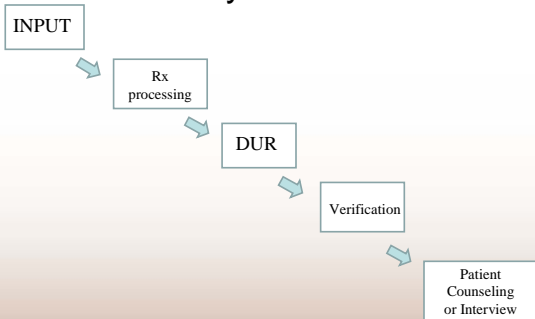
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## Laboratory Workflow




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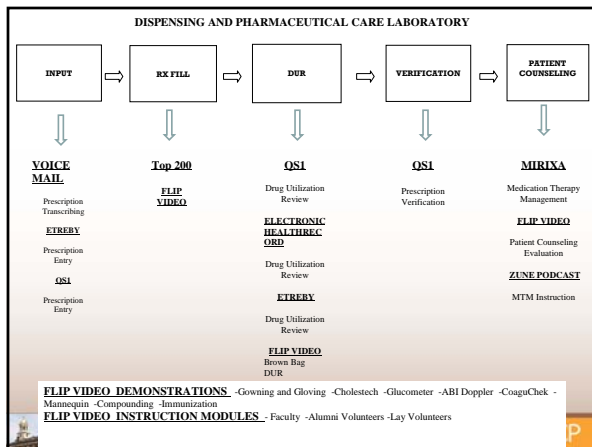
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## Rx Input and Processing

- Voice mail/telephone order
  - Prescription transcription
- Rx Processing
  - Etreby
  - Qs1
- Top 200
  - Flip Video

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## Drug Utilization Review

- Qs1
- Electronic Health Record
- Etreby
- Brown Bag Review
  - Flip Video

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## Rx Verification

- Qs1
- Use of system to familiarize students with on screen verification processes

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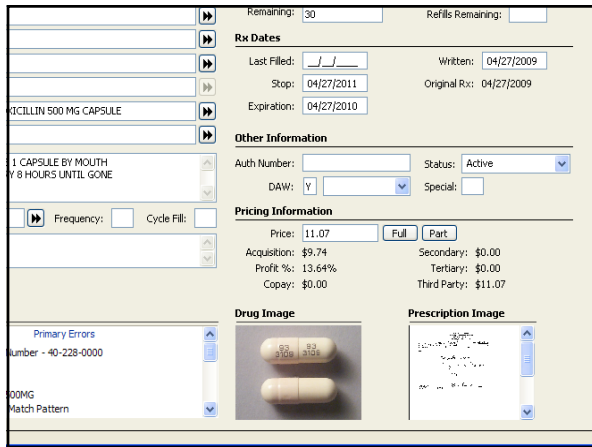
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## Patient Interview and Counseling

- Patient Counseling
- Patient Medication History
- MTM

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## Applications – Patient Counseling



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## Applications – Medication History



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## MTM

- MIRIXA
- Zune
  - Instruction
  - review

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## MIRIXA

- <https://training.mirixa.com/mirixapro>

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## Flip Video Applications

- Techniques
  - Gowning and Gloving
- Demonstrations
  - Cholestech, Coagucheck, Glucometer, Osteoporosis, ABI Doppler, Compounding, Mannequin
- Instruction
  - Faculty and Alumni

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## Techniques



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## Demonstrations



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## Instructions - Alumni

- A good example of an Advair counseling session
- [http://winstream.creighton.edu/spahp/pha485/advar\\_proper.wmv](http://winstream.creighton.edu/spahp/pha485/advar_proper.wmv)
- A bad example of an Advair counseling session
- <http://winstream.creighton.edu/spahp/pha485/video1.wmv>

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## Assessment

# Good/Bad

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Assessment

Keep / Delete

Expand

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Internet Conferencing Software  
for Case Studies

Kelly Anderson, Pharm.D.  
Department of Pharmacy Practice

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## Educational Mentor

- My educational background
  - Graduated from Creighton with a Pharm.D. in 1998
  - Completed an Ambulatory Care Residency
  - Assistant Professor of Pharmacy Practice
  - Became an Educational Mentor in 2002
- Definition of Educational Mentor

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## Pharmacotherapeutics

- Team taught course
- Lectures are videotaped and posted
- Case studies for the active learning component
- Were done asynchronously with a discussion board
- Scores were lacking

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## Internet Conferencing for Case Studies

- Currently use iLink via CULive
- Students sign up for a discussion time; therefore done synchronously
- Role of the educational mentor
  - Facilitate the discussion of case studies
  - Answer emails
  - Support the students in the process of assimilating and applying learned information

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## Before the First Session

- Schedule a recurring meeting
- Edit profile
- Add picture
- Run Audio Wizard
- OLAT available for help

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## During the Session

- Log in to iLinc
- Take attendance
- Reduce background noise
- Case presentations
  - Example 1
  - Example 2
  - Example 3

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## After the Session

- Students email a copy of the presented case to me
- Follow up on any points that were not clear and/or questions that could not be answered
- Grades based on Case Study Grading Rubric

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## Considerations

- Satellite connection versus cable connection
- Maintaining the flow of discussion
- Explaining calculations

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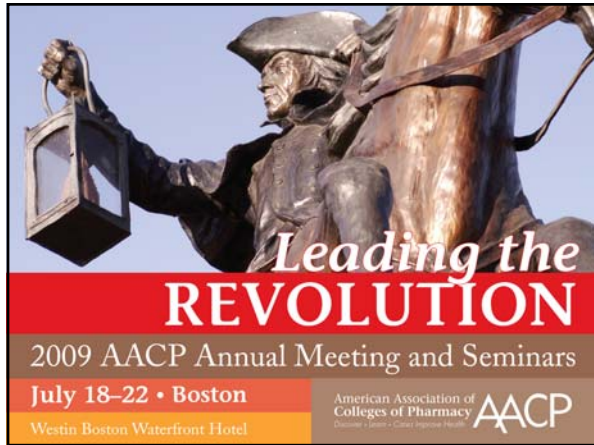
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## Teaching with Technology: A Pharmacy Resident Certificate Program

Keith Christensen, Pharm.D., BCPS  
Assistant Professor of Pharmacy Practice  
Creighton University Medical Center  
School of Pharmacy and Health Professions

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## Objectives

- Describe the instruction of a teaching certificate program specific to the integration of technology in teaching
- Examine the various topics covered by the program
- Provide examples of the materials generated at the conclusion of participating in the program

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## Components

### Use of a Community Learning Site

- Connect to the residency certificate online learning community
- Post your personal commentary, questions, calendar notices and of course get the latest on your assignments for the live learning sessions

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## Topics

- 1 [Teaching with Technology: Windows XP and Vista Utilities](#)
- 2 [Instructional Photo Shows for the Web, CD-ROM or DVD](#)
- 3 [Teaching Handouts: Instructional CD Production](#)
- 4 [Audio Teaching Strategies: Production & Distribution](#)
- 5 [Digital Video for Routine Teaching Presentations](#)
- 6 [Streaming Media for Students, Staff and Patients](#)
- 7 [Personal Clinical Teaching Archives](#)
- 8 [Handheld Technology: Patient Teaching Strategies](#)
- 9 [Pharmacy Teaching Center: The Home Network and Home Data Center](#)

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## Use of the Internet

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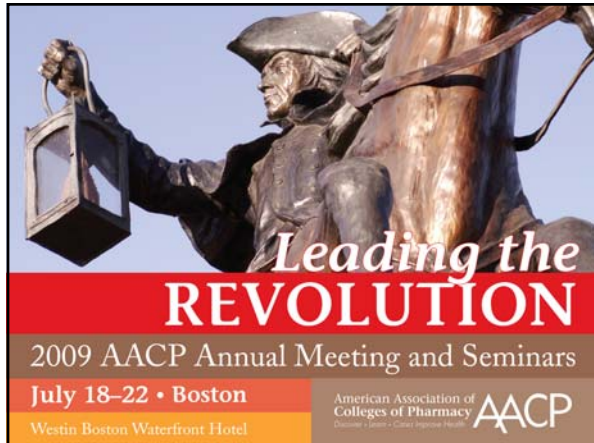
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## Creating Web-deliverable Patient Teaching Resources

Michele Faulkner, Pharm.D.  
Creighton University School of Pharmacy and  
Health Professions

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## Ambulatory Care Rotation

- Internal Medicine Clinic
  - Patients referred to pharmacist for individualized diabetes education
  - One-time appointment
    - Diet
    - Exercise
    - Glucometer use
    - Insulin injection

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## Project Creation

- Video demonstrating insulin handling and injection technique
- Technology
  - Microsoft Photo Story 3 for Windows/Windows Movie Maker
  - Digital Camera
  - External Microphone

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## Project Creation

- Decide upon key messages
  - Corresponding visuals
- Narrative
  - Script written by students and edited by preceptor
  - Photos arranged in order of script
  - Narration completed by students

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## Project Creation

- Title slide and end credits
  - Creation of individual slides in PowerPoint saved as .jpg files
- Dissemination for consumption by patients and caregivers
  - DVD
  - Video sharing website


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## Project Creation

- Software demonstration
  - <http://www.microsoft.com/windowsxp/using/digitalphotography/PhotoStory/default.msp>  
x (Photo Story 3 Download)
- YouTube
  - <http://www.youtube.com/watch?v=UVO1wRLPNuM>


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## Barriers and Benefits

- Barriers
  - Patient population
    - Age
    - Individual access to technology
- Benefits
  - Ease of creation
    - Intuitive software
    - Quick production
  - Minimal cost
    - Programs are free to download
    - Free access on web
  - Unlimited access to educational tool by patients and caregivers
  - Teaching students to use technology in future practice


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## Now, Your Turn!

- Develop a scenario using technology for use at your institution based on the presentation
- Describe the technology use currently in place

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## Panel Discussion

- Specific questions related to presentation
- Questions related to other endeavors:
  - Laptops
  - ADATC and FITT Programs
  - Blogs (*Christensen and Therapeutics*)
  - iTouch (*modified vodcasts and Therapeutics; app development*)
  - eMRs, ePortfolios, HD distance course development

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