What’s ASTEC doing for you during the Covid-19 crisis?
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The mission has changed...

ASTEC’s Motto:

“High tech...Big heart”
The mission has changed during the COVID-19 Crisis

1. Supporting the front line during COVID crisis
2. Filling the clinical education gap
3. Reaching out to create COVID-savvy healthcare consumers
4. High tech...Big heart: solving human problems
Supporting the Front-Line....

• ASTEC is continuing using its satellite *in situ* facility for training pulmonary, emergency room, and ICU personnel to make intubation and other invasive procedures safer for patients and healthcare practitioners.
Supporting the Front Line...

Satellite ASTEC in BUMC-T in situ training

Is getting wired for remote cameras to connect to ASTEC and Arizona Telemedicine Program
Interactive “virtual” iHuman patients

- Interactive virtual patient encounters
- Roll-out scheduled for COM faculty 4/13 and students COM 4/14
- Scaled to students’ background, fund of knowledge, clinical experiences
- ASTEC has purchased licenses for entire 3rd year COM to cover clinical clerkships x 4 months
- Senior electives TBD in future
- H&P, standardized patients, OSCEs
- >200 cases by specialty

“Bring the patient to the students”
Filling the gap...

• Very successful on-line IPE Team Behavior event 4/2-4/15
• >400 students across state
• Congrats to our amazing UAHS IPE team!
Filling the gap....

• We want more!
• ASTEC is evaluating a host of interactive games and resources to give us even more tools
Filling the gap...
Assist DOS with library of videotaped surgical cases
Enhance ability for *live* feed from OR where appropriate (OR light camera, endoscope, laparoscope, & microscope)
Reaching out

ASTEC/ATP Tele-sim COVID-19 Education Initiative

• K-12 interactive Covid-19-specific curriculum
• Age-appropriate interactive sessions for students
• 3 age groups K-6, middle school, and high school
• Will initiate regular interactive sessions 1-2X/week.
New Patient Telecom Unit Is Being Built

- ASTEC building mobile patient telecom unit to enhance bedside communication for COVID-19 patients who are in isolation.

- Stay tuned. Pilot testing to start soon.
ASTEC to offer new Virtual Healthcare Elective course

• Still awaiting final approval as 1 credit 2 week-long elective on virtual healthcare technology for clinical and educational use

• Look for our Virtual Healthcare elective starting 5/11/20
ASTERC beginning work on new AI initiative to evaluate team performance

• Using UA’s “CALMS” approach derived from TeamSTEPPS team performance parameters

• ASTEC developing methodology that might allow for computers to initiate “deep learning” so AI can be used to evaluate team performance in real time.
SUMMARY

• UAHS
  • Faculty development onboarding and resource center for I-Human interactive online simulation as a replacement for clinical clerkship students (Year III Med students)
  • Curriculum design for interprofessional activities now moving to remote learning modalities
  • Development of an online video library of annotated simulation encounters
  • Development of a resource center for interactive game-based options for all of UAHS
  • Development of a COVID educational resource page on the ASTEC website
  • New elective on virtual and on-line healthcare training in the age of COVID-19

• BUMC
  • Repurposed room previously designated for in situ activities connected to the hospital for hospital staff training, demonstrations, beta-testing, etc.
  • Ventilator management and testing using ASTEC equipment and supplies for pulmonary and EM
  • Preparation protocols and execution of intubation procedures for EM
  • Central line access training for anesthesia, including CRNA’s
  • Demonstration of proper PPE techniques for COVID-19
  • Patient bedside mobile telecom
More to come...

"""Only those who will risk going too far can possibly find out how far one can go."
T. S. Eliot

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