

MEDICAL MUSEUM

SCIENCE CAFÉ

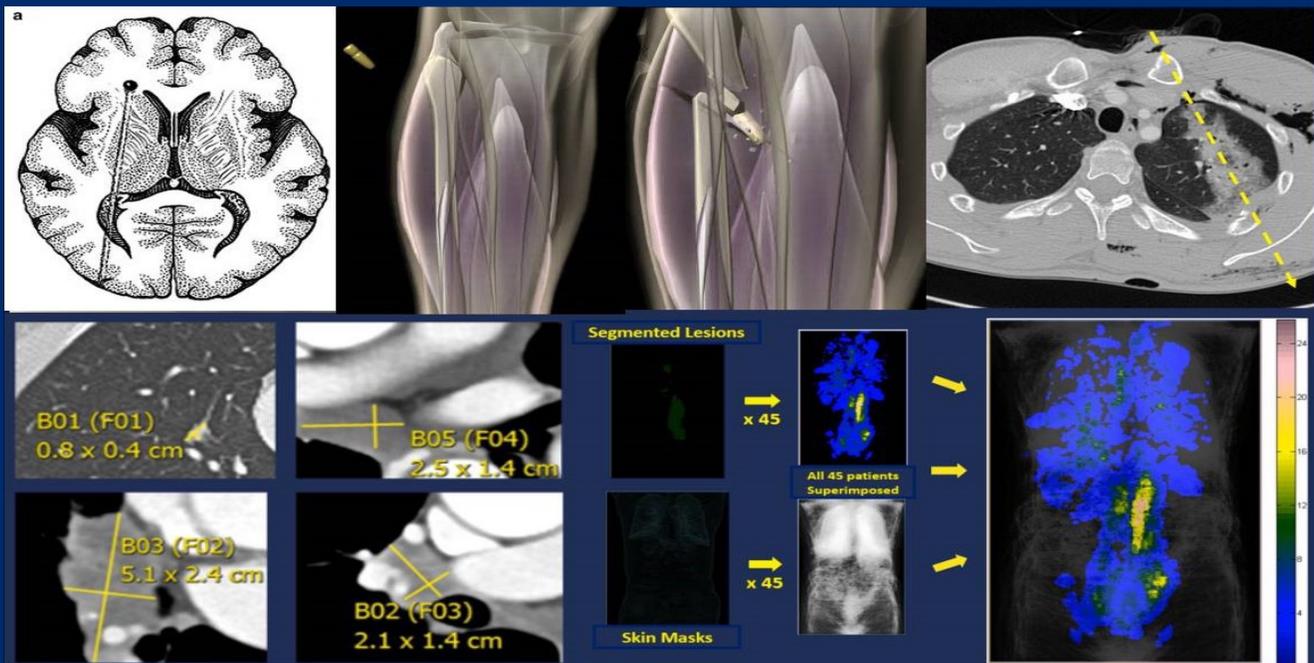
TUESDAY, SEPTEMBER 25, 2018 6-7 PM

Finding the Bullet: X-ray Imaging of Injury and Disease

Lessons learned from technological developments in recent conflicts “spin off” to improve therapeutic response trajectories over time in cancer; an internal battlefield.

Location and trajectory of a ballistic is imperative to guide triage of combat casualties, similar to objectively determining trajectory of metastatic disease progression in cancer with revolutionary therapies.

Join NIH radiologist Dr. Les Folio for a discussion of his ground-breaking work in this field.



Images: Upper left is an artist rendition of the bullet trajectory that took President Abraham Lincoln’s life. Middle top animations represent a bullet’s entry, trajectory within, and exiting from Dr. Folio’s blast test dummies (currently on display in the museum). Right top is an axial CT of a chest, showing the trajectory of a sniper bullet through the lung with corresponding damage. Lower left shows objective measurements of metastatic tumors that are now directly linked to radiologist’s reports. Lower right image shows heat maps created from all metastatic lesions from a cancer cohort that serve as probability mapping that should accelerate artificial intelligence algorithms, helping to diagnose and treat cancer.

PRESENTER:

Les Folio, DO, MPH, FAOCR, Lead CT Radiologist,
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National Institutes of Health Clinical Center



NATIONAL MUSEUM OF
HEALTH AND MEDICINE

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