



**MEDICAL
PROFESSIONALS**

Refining Radiology



Virtual MRI Console Simulator

Sat. 17
March 2018

Hazmiyeh,
LEBANON

Approved by the ASRT,
American Society of Radiologic Technologists,
as category A Continuing Education Credit (7.5 CE)

GENERAL OVERVIEW



Topics Covered

- Review the principle of multi-slice imaging with Fast Spin Echo sequence
- Master the acquisition parameters
- Understand and reduce the technical issues that might affect the MR image quality



Registration Details

For info about registration please send an e-mail to :
cme@medical-professionals.com
Or call:
+961 1 974 800 ext.209 or +961 3 10 46 13

Date: Saturday March 17, 2018

Location: Lancaster Tamar Hotel-Hazmiyeh, Lebanon



Target Audience

- Technologist
- Radiology Resident
- Radiologist
- Biomedical engineer



Course Deliverables

- Certificate of Completion
- 3 months free e-learning access
- Lunch + 2 coffee breaks

www.medical-professionals.com

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PROGRAM SCHEDULE

DAY 1

09:00 | 10:30 **Resonance and Pulses:**

- Resonance
- The magnetization vector
- A basic sequence
- The Spin Echo sequence

MRI Weights:

- Adjusting the TE and the TR
- Contrasts
- Impact on the signal

10:30 | 10:45 **Break**

10:45 | 12:30 **Quality:**

- Contrast
- Signal to noise ratio
- Spatial resolution

Fourier Space:

- Specificities for MRI
- The gradients in MRI
- Properties of the Fourier Space
- Acquisition time

12:30 | 13:30 **Lunch**

13:30 | 14:45 **The Sequences:**

- Spin Echo
- Fast/turbo Spin Echo

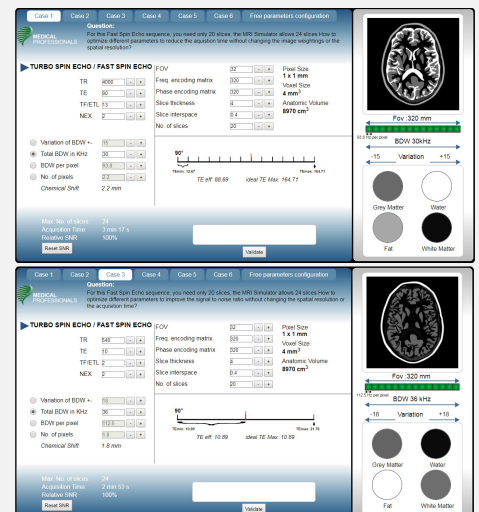
14:45 | 16:00 **Multi-Slice Acquisition:**

- Chronogram
- The maximum TE
- Blurring
- Chemical shift
- Receiver bandwidth
- Bandwidth and chemical shift
- The frequency matrix
- Reconstruction time

16:00 | 16:15 **Break**

16:15 | 17:30 **Quiz (15 minutes)**

Workshop on a virtual MRI console simulator (60 minutes)



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