



**MEDICAL
PROFESSIONALS**

Refining Radiology

*Your Reference for Radiology
& Education Services*

MRI SPECTRO- SCOPY

Saturday 13
October 2018

Hazmiyeh,
LEBANON



Approved by the ASRT,
American Society of Radiologic
Technologists, as category A Continuing
Education Credit (8 CE)

GENERAL OVERVIEW



Topics Covered

- Understanding the physics behind proton spectroscopy
- Advantages and constraints of spectroscopy
- Integrating spectroscopy into existing protocols



Target Audience

- Technologist
- Radiology Resident
- Radiologist



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 October 13, 2018

Location: Lancaster Tamar Hotel - Hazmiyeh, Lebanon



Course Deliverables

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

CALL NOW +961 3 10 46 13

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PROGRAM SCHEDULE

DAY 1

- 09:00 | 10:30 **Spectroscopy Principle:**
- Introduction
 - Basic principles
 - Characteristic of spectroscopy
 - Chemical shift
 - J coupling
 - Shimming
- 10:30 | 10:45 **Break**
- 10:45 | 12:30 **The Metabolites:**
- The metabolism
 - The metabolites
- 12:30 | 13:30 **Lunch**

- 13:30 | 14:30 **Spectroscopic Measurements:**
- What is the K SPACE?
 - Fourier transform
 - Spatial encoding
- 14:30 | 14:45 **Break**
- 14:45 | 16:00 **Spectroscopic Methodology:**
- Water suppression methods
 - RF sequences
 - Localization techniques

- 16:00 | 17:30 **Image Quality:**
- Parameters
 - Artifacts
 - Reduction in acquisition time

- Clinical Applications:**
- Spectrum analysis and interpretation
 - Main clinical applications
 - Brain spectrum
 - Skull, Prostate, Breasts, Liver, Heart and Muscle

Quiz (10 minutes)

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