

GS02-1731**Medical Physics Seminar (Spring) 2023**

Coordinators:

Drs. Mary Martel and Julianne Pollard-Larkin

Textbook:

AAPM TG 109 Report

Pawlicki, Quality and Safety in Radiotherapy

References:

Credits:

1 SCH

Hours of Instruction:

Grading Basis:

25% Article Review Presentation, 25% Class Participation, 50%

Lecture #	Date	Duration (hr)	Lecture Title
1	12-Jan	1	Introduction to Leadership, Ethics, Quality and Safety/ Syllabus Review
2	19-Jan	1	Leadership: Importance, Emotional Self-Awareness, and Listening
3	26-Jan	1	Professionalism and Ethics: History and Principles, Medical Physics Professionalism
4	2-Feb	1	Ethics: Effective Communication; Physicist-Patient and Physicist-Physicist Interactions, Human Subject Research (module), Ethics and Organizational Structure at MDACC
5	9-Feb	1	Physics Leadership at National Level, including Clinical Trials, QA, Task Groups
6	16-Feb	1	Academic and Extramural Leadership for Med Physicists, Discussion of Assigned Papers
7	23-Feb	1	Ethics: Personal Behavior, Peer Review and Contract Negotiations with Employers (module), Graduate and Resident Education (module)
8	2-Mar	1	Research Group Leadership Skills
9	9-Mar	1	Human Factors: Work System Design, Safety Culture: High Reliability Organizations; Errors; Actions
SPRING BREAK (Mar 13 -17)			

10	23-Mar	1	Ethics: Relationships with Vendors, Conflicts of Interest
11	30-Mar	1	Reporting Systems; Root Cause Analysis: Process Mapping
12	6-Apr	1	Quality Methods: Indicators, Quality Audits, Credentialing, and Certification; Accreditation - TQM Program: Commissioning, QC and QA
13	13-Apr	1	Quality Improvement: Six Sigma, Lean and Statistical Process Control

Total 13

Lab #		Duration (hr)	Lab Title
1		1	RSNA/AAPM Physics Module: Ethics in Graduate and Resident Education (2021)
2		1	RSNA/AAPM Physics Module: Historical Evolution and Principles of Medical Professionalism (2021)
3		1	RSNA/AAPM Module: Ethics of Research (2021)
4		1	RSNA/AAPM Module: Relationships with Vendors (2021)
5		1	RSNA/AAPM Physics Module: Publication Ethics (2021)

Total 5

GS02-1731 | Med Phys Seminar:

1

6 Participation in RSNA/AAPM Modules, Pass/Fail

CAMPEP Standard 8 Parts

Lecturer(s)	Fully Met	Partially Met
Martel/Pollard-Larkin		
Martel		8.7.8, 8.7.9, 8.7.10
Pollard-Larkin	8.7.1, 8.7.2, 8.7.3, 8.7.4, 8.7.5, 8.7.6, 8.7.11	
Pollard-Larkin	8.7.15, 8.7.20, 8.7.21, 8.7.22, 8.7.24	8.7.8
Paige Taylor		8.7.8, 8.7.9, 8.7.10
Pollard-Larkin/Martel/Grad Students		8.7.8, 8.7.9, 8.7.10
Paige Taylor	8.7.12, 8.7.13, 8.7.14, 8.7.15, 8.7.16, 8.7.17, 8.7.18	8.7.8
Court		8.7.8, 8.7.9, 8.7.10
McAlear/Nitsch		

Balter	8.7.19, 8.7.23	
McAleer/Nitsch		
Briere		
Nicholas Olivieri		

Instructor(s)		
Online		
Online		
Online		
Online		
Online		