

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

Co-ordinator:

Julianne Pollard-Larkin

Textbook:

AAPM TG 109 Report
Pawlicki, Quality and Safety in Radiotherapy

References:

Credits: 1 SCH

Hours of Instruction: 1

Grading Basis: 25% Article Review, 25% Moderating Session, 50% Participation, Pass/Fail

Lecture #	Date	Duration (hr)	Lecture Title	Lecturer(s)	CAMPEP Standard 8 Parts	
					Fully Met	Partially Met
1	11-Jan	1	Introduction to Leadership, Ethics, Quality and Safety	Martel		
2	18-Jan	1	Leadership: Importance, Emotional Self-Awareness, and Listening	Martel		8.7.8, 8.7.9, 8.7.10
3	25-Jan	1	Leadership as Action	Martel		8.7.8, 8.7.9, 8.7.10
4	1-Feb	1	Leadership: Values and Style	Martel		8.7.8, 8.7.9, 8.7.10
5	8-Feb	1	Leadership: Empathy, Conflict Management, Rapport and Team Effectiveness	Martel/Taylor		8.7.8, 8.7.9, 8.7.10
6	15-Feb	1	Professionalism and Ethics: History and Principles, Medical Physics Professionalism	Pollard-Larkin	8.7.1, 8.7.2, 8.7.3, 8.7.4, 8.7.5, 8.7.6, 8.7.11	
7	22-Feb	1	Ethics: Personal Behavior, Peer Review and Contract Negotiations with Employers (module); Physicist-Patient and Physicist-Physicist Interactions	Paige Taylor/Pollard-Larkin	8.7.12, 8.7.13, 8.7.14, 8.7.15, 8.7.16, 8.7.17, 8.7.18	8.7.8
8	1-Mar	1	Ethics: Human Subject Research (module), Graduate and Resident Education (module), Ethics and Organizational Structure at MDACC	Pollard-Larkin	8.7.15, 8.7.20, 8.7.21, 8.7.22, 8.7.24	8.7.8
9	8-Mar	1	Human Factors: Work System Design, Safety Culture: High Reliability Organizations; Errors; Actions	McAleer/Nitsch		
10	22-Mar	1	Ethics: Relationships with Vendors, Conflicts of Interest	Gillin	8.7.19, 8.7.23	
11	29-Mar	1	Reporting Systems; Root Cause Analysis: Process Mapping	McAleer/Nitsch		
12	5-Apr	1	Risk Assessment and Management: FMEA, Fault Tree Analysis; Safety Training (in-house and vendor), Error-proofing	TBD		
13	12-Apr	1	Quality Methods: Indicators, Quality Audits, Credentialing, and Certification; Accreditation - TQM Program: Commissioning, QC and QA	Gillin		

14	19-Apr	1	Quality Improvement: Six Sigma, Lean and Statistical Process Control	Nicholas Olivieri		
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Total 14

Lab #	Duration (hr)	Lab Title	Instructor(s)		
1	1	RSNA/AAPM Physics Module: Professionalism in Everyday Practice (2015)	Online		
2	1	RSNA/AAPM Physics Module: Historical Evolution (2015)	Online		
3	1	RSNA/AAPM Physics Module: Conflict of Interest (2018)	Online		
4	1	RSNA/AAPM Physics Module: Ethics of Research (2018)	Online		
5	1	RSNA/AAPM Physics Module: Personal behavior, peer review, and negotiations with employers (2018)	Online		

Total 5