Virginia Society of Radiologic Technologists, Inc.
2020 Student, Educator and Technologist Seminar
Lecture Abstracts

Thursday, April 2, 2020

Leading from all Angles - This one hour session will discuss how anyone can be a leader, no matter where they are in their walk of life. Discussion will include the characteristics of leaders and how anyone can apply these in their everyday lives.

Self-Defense and Active Shooter Awareness: Inside and Outside of the Classroom - In the recent climate of school shootings and mental health issues experienced within the realm of many classrooms today, this introductory session builds on the knowledge, skill proficiency, and techniques necessary for preserving human life in an emergency, life-threatening situation that can potentially occur inside and outside of the classroom or clinical setting.

The Value of Accreditation - The American College of Radiology (ACR) Radiation Oncology Practice Accreditation (ROPA) program is one of the oldest accrediting modalities of the ACR. Achieving accreditation can improve patient care and quality and safety and also help facilities meet governmental and third party payer criteria.

That Which We Learn with Delight, We Remember for a Lifetime - This presentation will provide educator attendees with an opportunity to reflect and comment on their role as a facilitator of learning in the radiologic sciences. The context of reflection will center on the timeliness and impact of learning outcomes in the presence of competing forces impacting student learning. Topics will include a career arc analysis, long term impact of knowledge sharing, learning with delight and strategies for developing a collaborative learning environment.

Accreditation 101 for Medical Imaging Students – This presentation will increase participants' knowledge of the accreditation process and its role in securing a quality education in the field of medical imaging.

ACR CT Accreditation Including ACR CT Lung Cancer Screening Designation - During this one hour presentation we will discuss the process to apply for and successfully achieve ACR CT accreditation including clinical and phantom imaging and does requirements. We will also discuss low dose lung cancer screening and the ACR lung cancer screening designation, including reimbursement for the screening study.

This Ain't Your Momma's Radiography: How Education Has Changed Since 1895 - This one hour session will discuss how education has changed over the decades. We will discuss how students have changed because of the needs of the new college student. Instructors need to be better prepared for not only the new demands of life as a student but also the outside demands that are ever present in these students' lives.

Patient Care Review: Instincts and Interactions - Patient care and communication is the key to obtaining optimal images and securing the proper diagnosis, prognosis, and treatment for the patient. This lecture will review patient care based on patient histories, using our different senses and experiences to learn from the patient, and how we can use our patient care "instincts" for prevention and response. This lecture is directed toward radiography students who are preparing to take the ARRT registry examination, but also towards anyone who would like to learn more about patient interaction.

Updates in Radiation Therapy - It is an exciting time to be in Radiation Therapy. The new technologies focusing on imaging, planning, treatment delivery, and medical informatics creates unique opportunities. This presentation will review the foundation of the current technologies to establish the basis for advancement into the adoption the new technologies to include: 4D Imaging, Auto Planning, Benchmarking, Image Guided Radiation Therapy, Proton Therapy, and new brachytherapy isotopes.

Shaping the future – helping students grow into professionals - Educators have the unique privilege of molding the future technologists who will care for us. This lecture will discuss ways to promote professionalism in students and graduates. The role of mentoring programs will be reviewed. Tools such as portfolios, projects and reflection assignments will be shared. Opportunities provided by professional societies will be discussed. Audience participation is encouraged.

Managing Digital Age Persistent Conflicts and Making Healthy Decisions – During this session participants will recognize two types of decision making that puts them at risk for poor outcomes such as hyperarousal survival, desperate, aggressive or craving decision making. Decision fatigue can lead to helplessness. They will learn how to perform a method how to break free inflexible unhealthy thoughts (*Stop, Shift & Decide* by RSG). They will learn how to compose the elements on how to define one's purpose statement (The Why) and values in various settings. Go Bigger, then Immediate.

What are we Teaching our Students about Digital Technologies – This session will cover what Digital information is required for the Radiologic Technology Student to perform in a Digital Radiography Department. The role of the staff technologist in the Radiology Department will be discussed. Differences between multiple digital technologies will be reviewed.

Imaging off the Grid: Not Your Average Rad Tech - This lecture will talk about the In's and Out's of being a Travel Rad Tech: Virginia state requirements, other state requirements, what companies look for, the hiring process, adapting to and preparing for assignments, what your day looks like as a travel technologist. Personal testimonies from working in non-traditional assignments that range from Alaska to Guatemala, South America.

Managing Digital Age Burnout & Harnessing the Body – Mind Connection in the Medical Wearable Age - During this session participants will learn about the three Maslach measures of Burnout: Personal accomplishment, depersonalization & emotional exhaustion.

Friday, April 3, 2020

OK Boomer"-Teaching Millennials/Gen Z - Stereotypes abound; boomers are workaholics, gen X is overlooked, millenials are entitled, and gen z won't look up from their phones. As educators, we can meet our well defined objectives, while engaging the multi-generational students we serve by incorporating generational teaching strategies designed to interest them in their learning.

Radiographic Pathology of the Musculoskeletal System - This lecture is intended to identify anatomic structures associated with the skeletal system, common skeletal pathology, conditions, along with signs and symptoms associated. Students will learn the recommended modalities for demonstrating each learned pathology within the skeletal system along with diagnosis and treatment protocols

Caring for the Transgender Patient - Transgender individuals identify as a gender different than assigned at birth. A lack of awareness among imaging professionals can compromise care for these individuals. This lecture will review pertinent terminology and discuss barriers faced by these individuals. Practical advice focusing on communication and quality patient care will be shared.

Reconsidering the Use of Patient Radiation Shielding in Diagnostic Imaging - Application of protective radiation shields for patients in diagnostic radiology continues to be the standard of care in radiography and fluoroscopy. Recent evidence provided by medical physics community reveals there is little benefit to the patient and, in fact, there is a potential of increased skin dose that may even compromise diagnostic image quality if not properly implemented. In this presentation we will provide an overview of the historical rationale for patient shielding, and recent developments leading to the proposed suggestions to modify the practice. The VCU Health Clinical Radiation Safety Office (CRSO) is conducting relevant experimental measurements of the use of lead protective shields. Practical implications to changing practice will be explained and opposing perspectives from several national organizations will be identified.

Winds of Change – A Transformational Leadership Approach - Participant will gain an understanding of what a transformational leader is, and how this style of leadership can impact an organization creating positive change through innovation and motivation by lifting its members up together developing a stronger more unified team with specific goals and strategies to maintain positive outcomes and a plan for ongoing future development.

Challenges of International Students in a Radiography Program - Radiography programs accept students from all nationalities into their programs. International students have even more problems to cope with than the usual college student concerns like their American counterparts as they adapt to the culture, language, teaching methods, and even societal norms in the United States. This lecture will explore those issues so that educators can try to assist these international students to adapt and thrive in the American workplace.

Career Arc and Learning Strategies - This presentation will begin with a discussion of the arc of a technologist's career. This will be followed with an introduction to the types of learning opportunities available in the workplace. Strategies to enhance adult learning will be highlighted. The presentation will conclude with a discussion of career success framed with a personal satisfying work life balance.

Multimodality Approach to a Diagnosis - Radiology as a whole works as a team in assisting the Radiologist in making a diagnosis. There is no one superior imaging modality! Each modality has their strong suits and specialties and complement each other in different ways. We will present several case studies that show CT, MRI, Nuclear Medicine, and Diagnostic Radiology working together to make a diagnosis.

The (Radiation) Safety Dance- This session will review all of the material from the updated content specifications outline for the safety section of the ARRT exam. Topics include radiation physics, radiobiology and radiation protection. Topics also include biological aspects of radiation, minimizing patient exposure, personnel protection, and radiation exposure and monitoring. Additionally, there will be review questions built into the presentation, in the form of an interactive Kahoot session.

Saturday, April 4, 2020

AI … What is it and why do I care? - Presenter will discuss Artificial Intelligence in radiology. What is AI? How does AI affect us as radiographers? How is used in radiology? How we can do better in understanding and explain AI to our patients?

The Importance of Breast Density and What Every Person Needs to Know - This lecture reviews the importance of educating the audience on the correlation between the impact of breast density and tissue composition, and the diagnosis of breast cancer.

What is a Professional Anyway? The Quest for a Professional Identity for Radiologic Technologists - The definition of professionalism is elusive. Research on defining professionalism in healthcare is examined. A model of professionalism emerges and its application to radiologic technologists is explored.

To Shield or Not to Shield: A Paradigm Shift- The American Association of Physicists in Medicine (AAPM) recently released a statement recommending the discontinuation of patient gonadal and fetal shielding during X-ray based diagnostic imaging. The longstanding practice of shielding patients has for decades been considered consistent with the ALARA principle and therefore good practice. However, recent advances in technology and current evidence of radiation exposure risk has brought about a paradigm shift in this practice. We will explore and discuss the evidence behind this recommendation and departure from a legacy practice that has historically been an integral part of radiology.

An Introduction to Forensic Radiology - This session will introduce participants to forensic radiology, including scope of practice and the role of the forensic pathologist. The pathophysiology of death and dying will be discussed. Applications of forensic radiology and case studies will be discussed.

Cancer!!! Now What? A Mammographer's Journey - This lecture will briefly discuss a journey through a cancer diagnosis beginning with the initial diagnosis, stages of cancer grief, treatment options, surgical options and the emotional impact that comes along with this diagnosis.

MR Neurography – This session briefly describes the history of MR Neurograph; explain the clinical uses of MR Neurography; identifies the costs related to MR Neurography; discusses CPT Codes utilized for MR Neurography; and discusses the future of MR Neurography.

Imaging Vaping-Related Conditions - This session will focus on vaping-related illnesses and how imaging can help to diagnose these conditions. An overview of conditions and imaging aspects will be presented.

Advocacy for Technologists: The Importance of Engagement - The objective of this presentation is to discuss the importance of advocacy for the profession of medical imaging. The current and future landscape of medicine and of politics in medicine dictates that technologists be ready to defend the need for education and competency in their specialties. Technologists have a very specific set of skills that provide patients and their customers, such as radiologist's and providers with detailed, skilled based product that relies on their expertise. This expertise can only be obtained through school and professional development.