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He has served this hospital since November 2012. He started with one general x-ray machine and then developed his department with eight x-ray machines, 2 DSAs, 5 CTs, 3MRI and more in the future. The service policies and staff development are his usual duties in his department.

From 1998 to 2012, he was the Chairman of the Hong Kong Radiographers' Association. He organised various functions throughout the years, such as continuing education programs & assessments, newsletters, seminars & conferences. His missions throughout these two decades are promoting professional development and liaising with local and overseas relevant organisations, including Mainland China. Providing expert recommendations to Government and related institutes about medical imaging services is the duty of professional bodies. Standard of Practice and Radiation Protection is one of the focuses of his career. Besides that, Edward has been the Certified Professional Healthcare Information and Management System (CPHIMS) since 2008. He is one of the founders of the medical imaging informatics profession in Hong Kong. Recently, AI development in radiography has become his new topic of study.

EXPERIENCE & PROJECTS

The University of Hong Kong Shenzhen Hospital

November 2012-present

Senior Radiographer

- Started up all medical imaging modalities service in this new hospital in 2013
- Managed the operation of the medical imaging department, including staff supervision (over 100 staff) and budget monitoring (over 100millionRMB)
- Ensure the compliance of legal and mandatory regulations governing the operation of an imaging department (Passed the local 3A hospital accreditation in 2017)
- Plan for service quality standards and implementation, ensure professional and hospital policy compliance (Passed the ACHS accreditation in 2015)
- conduct staff training and development in pace with service development and technological advancement

Radiographers Board, Hong Kong

2022-2025

Examination committee member

- Responsible for holding examinations for assessing the registration applicant who does not have a degree, diploma or other documents as may be prescribed, issued by any examining body as prescribed or by the board.
- Conduct such examinations themselves or appoint examiners to conduct them on their behalf and specify conditions regarding the eligibility of persons to sit for examinations.

International Society Radiographers and Radiological Technologists

2018-2022

Committee Member of ISRRT Statutes and Operations Manual Review

The committee helps the Board of Management of ISRRT to review the format and wording of the Statutes and Operations Manual before sending it to the solicitors for review.

Hong Kong College of Radiographers & Radiation Therapists (HKCRRT)

October 2014–Present

Vice-President (Professional Standard of Radiographer)

- Founding member of HKCRRT
- lead the development of the Standard of Practice in Hong Kong
- Introduced and developed the online certification examination of various specialization training in 2016

Chinese Society of Imaging Technology, Chinese Medical Association

April 2015 - April 2018

International Communication Committee Member

- Provide consultation about the international affairs of the society
- Support the liaison duties of the committee

21st AACRT Organizing Committee

July 2015-June 2017

Chairman

- Led the team to hold this conference for around 500 guests
- Provided an international Platform where experts and stakeholders exchange knowledge and cooperation in Radiological Technology

Institute of Vocational Education, HK

January 2013 - May 2017

Part time Lecturer

- Taught Patient Care and Safety of Radiology for the students of Healthcare Assistant

Radiographers Board, Hong Kong

2004-2014

Education Committee member

- Developed the CPD system for Hong Kong Radiographers
- Provided suggestions to the Radiographers Board about professional education
- Monitored the CPD events and the background of CPD course providers
- Prepared the CPD events list as the reference for the registered radiographers in HK

Hong Kong College of Radiographers and Radiation Therapists

2008-2012

Faculty Director (Medical Imaging Informatics)

- Established the qualification requirements of the PACS administrator in HK
- Developed the certification examination for PACS administrator in HK

Hong Kong Radiographers' Association

1999-2011

Chairman

- He led the professional development using Annual Scientific Meeting, Radiographer Continuing Education Program, publications & international conferences.
- Protected the interests of radiographers to obtain and maintain just and reasonable rates of salaries and hours of work
- Regulated relations and settled disputes between radiographers and employers
- Promoted legislation in the interest of Radiographers, such as fighting for more autonomy of Radiographers Board
- Promoted the international recognition of HK radiographers through communication with other professional institutions in Hong Kong and Overseas

<p>Canadian Association of Medical Radiation Technologists (CAMRT)</p> <p>Continuing Professional Development Examinations Coordinator in Hong Kong</p> <ul style="list-style-type: none"> • Coordinated the examinations of the CAMRT CPD courses in Hong Kong annually 	<p>1999-2011</p>
<p>International Society of Radiographers and Radiological Technologists</p> <p>Council member</p> <ul style="list-style-type: none"> • Represented HK radiographers attending the council meeting of ISRRT 	<p>2006-2011</p>
<p>Radiographers Board, Hong Kong</p> <p>Board Member</p> <ul style="list-style-type: none"> • Represented HK frontline radiographers <ul style="list-style-type: none"> ◦ to maintain a register of radiographers; ◦ to promote adequate standards of professional practice and professional conduct among registered radiographers; and ◦ to carry out the functions assigned to it by the Ordinance. 	<p>2008-2011</p>
<p>International Accreditation Board for Special Radiological Technologists (IABSRT)</p> <p>IABSRT Examinations Coordinator in Hong Kong</p> <ul style="list-style-type: none"> • Introduced and organized the IABSRT examinations in Hong Kong • Prepared the examination questions for the question pools of CT & PACS 	<p>2009-2011</p>
<p>International Society of Radiographers and Radiological Technologists</p> <p>Public Relation Coordinator in Asia & Australasia</p> <ul style="list-style-type: none"> • Assisted the Director of PR in promoting ISRRT in the A/A region • Coordinated the professional news in the A/A region and feedbacked to the Director of PR 	<p>2002-2006</p>
<p>Radiographers Board, Hong Kong</p> <p>Preliminary investigation Committee member</p> <ul style="list-style-type: none"> • Vetted all evidence and made comments about the validity of the complaint to the registered radiographer for the disciplinary inquiry 	<p>2001-2005</p>
<p>The 13th World Congress of ISRRT</p> <p>Organising committee member</p> <ul style="list-style-type: none"> • Managed the hospitality of the overseas guests 	<p>2005</p>

EDUCATION

<p>City University of HK</p> <p>MSSc in Applied Psychology</p>	<p>2009-2010</p>
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Hong Kong Polytechnic University	2001-2005
MSc. in Health Care	
Charles Sturt University, Australia	1993-1995
BSc. in Medical Imaging	
Hong Kong Polytechnic University	1987-1990
Professional Diploma in Diagnostic Radiography	

CERTIFICATIONS

Certified Professional in Healthcare Information and Management System (CPHIMS)	2009-2024
Healthcare Information and Management System Society, USA (HIMSS)	
Registered Diagnostic Radiographer	1995-present
Radiographers Board, Hong Kong	
Fellow	2016
Hong Kong College of Radiographers and Radiation Therapists	

PAPER PRESENTATIONS

European Congress of Radiology 2023	March 1-5, 2023
The Efficiency of Medical Imaging AI in Clinical Setting	
<p>AI in medical imaging has become popular since the 2010s. It is over a thousand related researches paper each year. Many AI products are in the market to improve the efficiency of Radiology reporting, but do they work as expected or depend on the task and situation? This paper compared the reporting time with or without AI in a clinical condition.</p>	
22th ISRTT World Congress in Bangkok, Thailand	December 15-17, 2022
The practical experience of using the Exposure Index of digital radiography in Quality Assurance Management	
<p>Digital Radiography has changed image quality assurance management. The wide dynamic exposure latitude can obtain optimal image quality, either overexposure or underexposure. American Association of Physicists in Medicine (AAPM) recommended using the standard Exposure Index (EI) to monitor the optimal exposure factors for individual radiographic examination. The undesirable EI may indicate the patient's risk of unnecessary radiation doses or repeated examination. However, the pace of plain radiography service is fast. Therefore, radiographers could pass the images with suboptimal exposure because those images still have diagnostic value. This paper will illustrate the experience of using the radiation dose management platform to monitor the EI and help quality assurance of the images with optimal radiation dose.</p>	
21th ISRTT World Congress in Dublin	21 August 2021
The Role of Interventional Radiological Technologists in Radiation	

Protection-An Radiographer Leading CQI project

The radiographers in a public hospital in Shenzhen, China, found the average radiation dose of the new advanced biplane DSA machine for cardiac catheterization and interventional service was 1.7 times higher than the old single-plane machine. After the Quality and Safety committee meeting of the DSA discussion, they initiated a Continuous Quality Improvement project to investigate and rectify the high dose without affecting the image quality with minimal cost.

8th Annual Academic Conference of Imaging Technology of Guangdong Medical Association

August 2019

The Role of Radiological Technologists in Interventional Radiology

- Given a brief introduction to Interventional Radiology
- The development of Interventional Radiological Technologists in China and Overseas
- A summary of the future development of IR technologists from the literature review.

The 22nd Asia-Australasia Conference of Radiological Technologists

28-31 March 2019

How does a medical imaging department satisfy the both ACHS and China 3A hospital accreditation systems? An experience sharing of the University of Hong Kong Shenzhen Hospital.

The University of Hong Kong Shenzhen Hospital is a public hospital in Mainland China. It is a healthcare reform pilot hospital for introducing the Hong Kong Healthcare Management System. Thus, it has to comply with the healthcare accreditation system of the Australian Council on Healthcare Standards (ACHS) as the public sector in Hong Kong. On the other hand, it has to adopt the local accreditation criteria as a 3A major general hospital. Medical Imaging, as a vital diagnostic service in a hospital, must be involved in those accreditation campaigns. This paper would like to share what the medical imaging staff learned from the diversity and commonality in both systems.

20th ISRRT World Congress in Trinidad & Tobago

April 2018

Comparing the contrast enhancement of Head & Neck CT Angiogram from the left and right elbow intravenous contrast injection.

- Shared the result of comparing the contrast enhancement of the head and neck CT angiogram that contrast injection is given from either left or right antecubital vein to evaluate which injection site is the best.

6th Myanmar Medical Radiation Technologist Conference

October 2017

The Medical Radiation Protection in China

- Invited Speaker
- Explained the roles of radiographers in medical radiation protection
- Showed the radiation protection concept in China

33rd Japan Conference of Radiological Technologists by JART

September 2017

The professional development of Hong Kong Radiographers

- Invited Speaker
- Shared the development of Hong Kong Radiographers in the last 60 years
- Showed the plan for professional development in Hong Kong

19th ISRRT World Congress in Seoul

September 2016

Radiation Safety Concept in bedside radiography of the local radiographers

- Showed the radiation protection concept in China
- Shared the research study of modifying the radiation protection practice in China

49th Annual Meeting of TWSRT and the International Conference on Medical Imaging

March 2016

The patient safety of Medical Imaging —Other than the Radiation

- Invited Speaker
- Showed the safety issues of the Radiology Department
- Suggested methods to avoid or minimize the risks

ISRRT 18th World Congress in Helsinki 2014

June 2014

Hong Kong Medical Imaging Service in China

- Shared my working experience of developing a new medical imaging department in China
- Illustrated the cultural difference in healthcare service between mainland China and its international counterpart

28th Singapore-Malaysia Radiographers' Conference

September 2013

Culture Shock - Setting up a HK style Radiology Department in China

- Invited Guest Speaker
- Showed the radiography practice in China
- Illustrated the strategies for promoting international radiography standards to the radiological technologists in China

27th Malaysian Society of Radiographers Scientific Meeting

September 2012

The Professional Development of Diagnostic Radiographers in Hong Kong

- Invited Guest Speaker
- Shared the history of radiography in Hong Kong
- Showed the further development of our profession in future

The 16th National Scientific Meeting of Chinese Society of Imaging Technology

September 2008

Evidence Based Practice in Medical Imaging

- Invited Guest Speaker
- Shared the idea of evidence-based practice and how it can support the development of our profession

The 15th National Scientific Meeting of Chinese Society of Imaging Technology

October 2007

The Standardisation of Radiological Technology

- Invited Guest Speaker
- Shared the importance of Standard of Practice in our profession

12th Annual Scientific Meeting of Hong Kong College of Radiologists

2004

The technique & pitfall of proceeding CT pulmonary embolism

- Invited speaker
- Showed the protocol of MDCT pulmonary embolism, the adjustment of suboptimal examination & the safety issues of

The 11th National Scientific Meeting of Chinese Society of Imaging Technology

Sept 2003

The development of Hong Kong Radiographers' Association

- Invited Guest Speaker
- Delivered the history of HKRA & its vision of professional development

PUBLICATIONS

The Impact of the prolonged pandemic on the practice and psychosocial status of radiographers and the new norms: An observation in Hong Kong and Shenzhen

8 November 2021

WRD 2021 ISRRT SPECIAL EDITION

In late December 2019, China Government informed the World Health Organization that a cluster of pneumonia cases with unknown causes was detected in Wuhan City, China. Meanwhile, Hong Kong healthcare professionals working in the University of Hong Kong Shenzhen Hospital (HKU-SZH), China, heard about this information in early December. Since they have experience with the 2003-Severe Acute Respiratory Syndrome (SARS) outbreak in Hong Kong, they informed the local staff to start preparing for the pandemic arriving in Shenzhen, such as checking the PPE stock and familiar the workflow before Christmas in 2019.

After the new year holidays in 2020, HKUSZH found the first COVID-19 case on 10 January². Then the first confirmed case in Hong Kong was detected on 23 January 2020¹. Before that date, Hong Kong had over 90 suspected cases.

The strategy of sustainable services As healthcare professionals, radiographers must try their best to maintain the patient's clinical services under the pandemic's impact. However, different countries or regions may have various basic service needs depending on public expectations and clinical situations to manage a pandemic. For example, in Hong Kong, the radiology departments had to reschedule the elective appointment or suspend some services¹ to deal with the surge of pandemic patients. On the other hand, not all hospitals or departments could do the same because of the clinical necessity, such as the radiation therapy department of HKU-SZH. Nevertheless, their overall service did not drop, and some services increased during the pandemic.

Although we have different service needs to maintain, avoiding cross-infection in the hospital setting is our shared priority. But, at the same time, people need to support each other to go through this endless fight.

Radiographers are essential in elevating patient care with Artificial Intelligence

8 November 2020

WRD 2020 ISRRT SPECIAL EDITION

AI in healthcare has been springing up like mushrooms in the last decade, especially in radiology services. An AI article in the recent Healthcare Weekly has tried to illustrate the renouncing of AI products. There are nine out of twelve products¹ related to radiology or medical imaging. However, all radiological AI products support the diagnosis, serving the radiologists. Does AI help radiographers or radiological technologists? And does it elevate patient care? This article tries to organize information on healthcare AI to see whether radiographers can apply AI and our role in its development. I hope this article can inspire you to have more new ideas for AI development in radiography.

Quality and safety for the patient by radiographers

8 November 2019

WRD 2019 ISRRT SPECIAL EDITION

Many professionals in a medical imaging department include radiologists, physicists, engineers, nurses and radiographers. Generally speaking, radiographers (radiological technologists) are the first healthcare professional to contact the patient before starting an imaging examination). Their understanding of service quality and knowledge of patient safety must be crucial to the outcome of caring and professional performance. It is undeniable that image quality, equipment performance and radiation safety are the fundamental duties of radiographers). However, many

quality and safety concerns during the examination process still require radiographers to observe and manage them. This article will illustrate the issues, analysis tools, possible solutions and recommendations for radiographers to play the leading role of quality and safety for the patient.

The Radiographers Stress Inventory

April 1998

The Hong Kong Radiographers' Journal,

Developed the HK Radiographers Stress Inventory for assessing the workplace stress of radiographers.