

Clinically Qualified Medical Physicist in Thailand

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The 15th Annual Scientific Meeting 1-3 March 2024, Trang, Thailand "Advanced Medical Physics Improves Patient Outcomes"

Rationale



- Shortage of Clinically Qualified Medical Physicist (CQMPs)
- Insufficient education and clinical training
- Lack of medical physics professional recognition

International Basic Safety Standards (BSS) defines Medical Physicist as: "a health professional, with specialist education and training in the concepts and techniques of applying physics in medicine, and competent to practice independently in one or more specialties of medical physics." - DIR, NMP, RTP, RP in Medicine

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Medical Physics Education Programs



YEAR est.	University	Hospital	Program	
1972	Mahidol	Ramathibodi	Medical Physics	
1990	Mahidol	Siriraj	Medical Physics	
2001	Chiang Mai	Maharaj	Medical Physics	
2003	Chulalongkorn	КСМН	Medical Imaging	
2016	Chulalongkorn	КСМН	Medical Physics (Ph. D.)	
2014	Naresuan	CRA	Medical Physics	
2018	Royal College Chulabhorn	Chulabhorn	Medical Physics	

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RAS 6038 Strengthening MP through Education and training

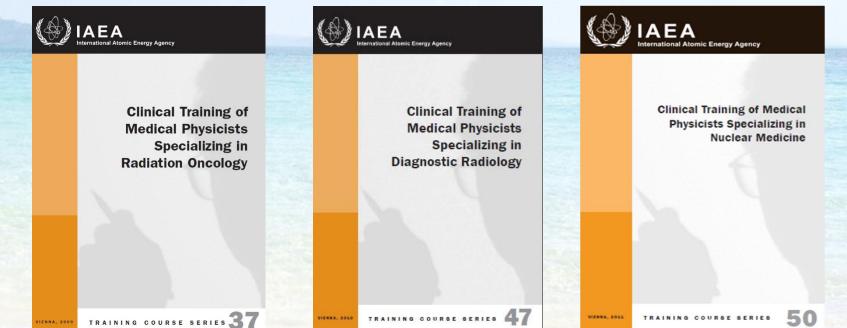




Regional Training Course on MP Clinical Training in 2007

Prof. Brian Thomas Dr. John Drew Dr. Donald McLean

Program	University / Hospital	Year	No. Residents	Complete
ROMP	Chula, Chiang Mai, Rama, Siriraj	2007	10	2009
DRMP	Chula, Phya Thai, Bumrungrad	2008	4	2010
NMMP	Chula, Rama, Siriraj, Bumrungrad, Chulabhon	2010	12	2013



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IAEA Clinical Training Guides



VIENNA, 2009

- Modular in structure
- Competency-based
- Certification through written, oral or practical examination

Clinical Training of Medical Physicists Specializing in Radiation Oncology

TRAINING COURSE SERIES

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International Supports (CQMPs)



- May 2009: IAEA, WHO, IOMP, EFOMP, AAPM, AFOMP, SEAFOMP IRPA met in Vienna
- 2009-2013 IAEA TC Project on 'Strengthening MP in Radiation Medicine'
- Goal: To ensure the safe and effective diagnosis and treatment of patients



- Ahmed Meghzifene, TO
- C. Constantinou (Cyprus)
- Pedro Andreo
- Frank Pernicka
- Donald McLean
- KY Cheung, IOMP, AFOMP
- Agnette Peralta, IRPA
- Anchali Krisanachinda, SEAFOMP

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IAEA e-learning



• Cyber Learning Platform for Nuclear Education and Training (CLP4NET)



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NATIONAL WORKSHOP: Piloting e-learning in clinical training of medical physicists in diagnostic radiology, radiation oncology and nuclear medicine Chulalongkorn University, Bangkok, Thailand 24-26 February 2016

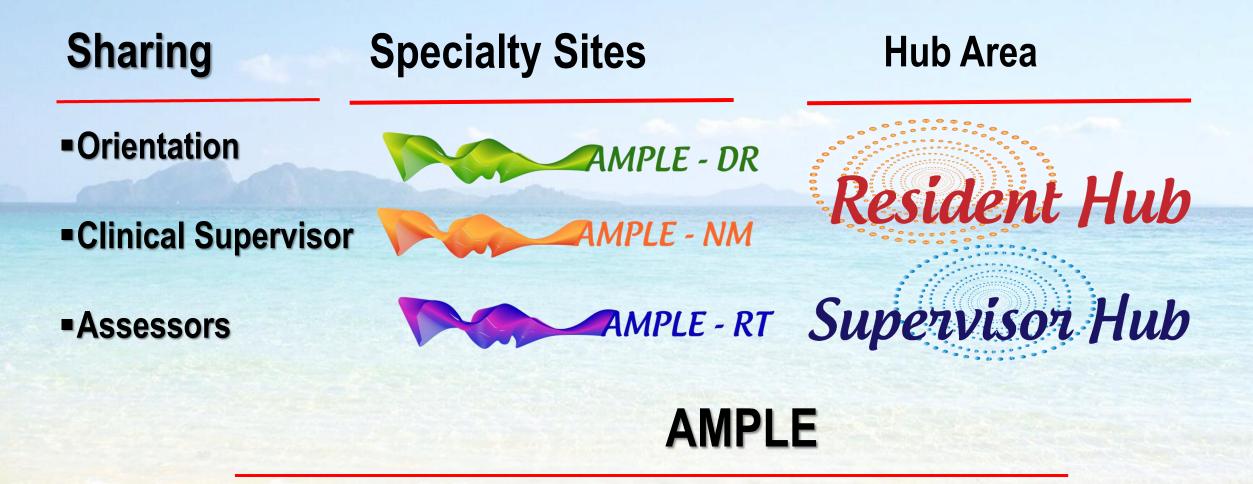


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AMPLE- Advanced Medical Physics Learning Environment





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Roles in AMPLE



- Resident
- Clinical Supervisor
 National Specialty Coordinator
 National Program Coordinator
 External Coordinator

"Student"
 Role
 Modified
 "Teacher"
 Role

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ROMP DRMP NMMP Bangkok 2018 ORIENTATION





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AMPLE Learning Resources



Knowledge sources
Found in each sub-module;
Reviewed by expert groups for the IAEA;
Includes references from the TCS guides and new resources.

Shared (unofficial) resources
➢ Found in the
Communication area of
AMPLE;
➢ Not approved by IAEA.

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Conclusions



- AMPLE is an IAEA-supported resource for managing your clinical residency in medical physics including your competency assessment.
- AMPLE has learning resources available to residents and supervisors. The resources are constantly evolving. We seek the support of all users to maintain and update the learning resources.
- AMPLE has communication tools at your disposal in hubs, forums, virtual meetings, notifications etc. We encourage use of these tools for you benefit but also to refine and improve AMPLE.

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