Mrs. Sivalee Suriyapee

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RESEARCH INTERESTS Radiation Dosimetry in Radiotherapy

EDUACTION

1973-1975	Chulalongkorn University, M.Eng. (Nuclear Engineer)
1966-1970	Chulalongkorn University, Bangkok, B.Sc.(Physics)

WORK EXPERIENCE

1970– Present	Department of Radiology, Faculty of Medicine, Chulalongkorn University, King Chulalongkorn Memorial Hospital, Bangkok, Thailand
1997- Present	Associate Professor

Physicist Job

1970-2020

1. Calibration the output of the therapy machines.
2. Acceptance test, commissioning and annual QA of therapy machines.
3. Specification for therapy equipment.
4. Planning for equipment and man power.

Teaching

Teaching to student in master degree and Ph.D. program of Medical Physics.

Organize in the Training Course:

Organize short training courses for Thai, Mynmar and Jordan participants in “Treatment techniques, planning and QA in Radiotherapy”. In co-operative with IAEA and Varian.

Scientific service

Reviewer and evaluation of the research and manuscript.

PUBLICATIONS

1. Wolfgang L, Alfonso R, Arib M, Huq M S, Ismall A, Kinhkar R, Larraga-Gutierrez J M, Raj Mani Karthick, Maphumulo N, Sauer O A, Sheir S, **Suriyapee S**, Christaki K. A multi-Institutional evaluation of small field output factor determination following the recommmendations of IAEA/AAPM TRS 483. Medical Physics 2022; 49:5537-5550.

2. Yabsantia S, **Suriyapee S**, Phaisangittisakul N, Oonsiri S, Sanghangthum T, Seuntjens J. Investigation of field output factors using IAEA-AAPM TRS-483 code of practice recommendations and Monte Carlo simulations for 6 MV Photon beams. J of Radiotherapy in practice 2021; Article in press.

3. Yabsantia S, **Suriyapee S**, Phaisangittisakul N, Oonsiri S, Sanghangthum T, Mirzakhanian, Heng J V, Seuntjens J, Determination of field output correction factors of radiophotoluminescence glass dosimeter and validation against IAEA-AAPM TRS-483 code of practice Physica Medica 2021; 88: 167-174.

4. Oonsiri P, Vannavijit C, Wimolnoch M, **Suriyapee S**, Saksrnchai K, Estimated radiation doses to ovarian and uterine organs in breast cancer irradiation using radio-photoluminescent glass dosimiters(RPLDs). J of Medical Radiation Sciences 2020; 68(2): 167-174.
5. Mamesa S, Oonsiri S, Sanghangthum T, **Suriyapee S**, The impact of corrected output factors based on IAEA/AAPM code of practice on small field dosimetry to the calculated monitor unit in Eclipse treatment planning system. J. Appl Clin Med Phys 2020; 21: 65-75.
6. Sanghangthum T, Lat SZ, **Suriyapee S**. Investigation of error detection capabilities of various patient specifi mocdulated radiotherapy quality assurance devices, International Journal of Medical Physics, Clinical Engineering and Radiation Oncology 2019; : 21-31.
7. Oonsiri P, Kingkaew S, Vannavijit C, **Suriyapee S.** Investigation of the dosimetric characteristics of radiophotoluminescent glass dosimeter for high-energy photon beams. J of Radiation Research and Applied Sciences 2019; 12(1): 65-71.
8. Oonsiri P. Saksornchai K**, Suriyapee S**. Impact of testicular shielding in liposarcoma to scrotum by using RPLDG: a case report. Radiat Oncol Journal 2018; 6(3): 248-253.
9. Oonsiri P**, Suriyapee S.** Plan evaluation of intensity modulated radiation therapy and volumetric modulated arc therapy in bilateral breast irradiation with 3 isocenter technique. Journal of Associated Medical Sciences 2018; 51(2): 81-84.
10. Sanghangthum T, Phimmakone Y, **Suriyapee S**. Dosimetric validation of the Eclipse Acuros XB dose calulation algorithm for a 6 MV photon beams. Journal of Associated Medical Science 2018;51(3):138-149.
11. Krisanachinda A, **Suriyapee S,** Khamwan K, Sanghangthum T. Education and Clinical Training of Medical Physics in Thailand. Medical Physics International Journal 2017; 5(1): 27-30.

Text book

Sivalee Suriyapee, Taweap Sanghangthun, Puntiwa Oonsiri, Editors, Physics in Radiotherapy, Thai version, Bangkok, Ideol Digital Print, 2020