



Delta⁴ User Meeting - SEA: *Spend less time on QA with highest confidence*

Date: 17-18 June 2017

Venue: 17 June 2017 @ Lopburi Inn Resort, Thailand

18 June 2017 @ Lopburi Cancer Hospital, Thailand

Delta⁴
by ScandiDos

Program

Day 1: 17 June 2017 (Saturday) @ Lopburi Inn Resort, Lopburi, Thailand

1130am-1.30pm

Arrival of delegates &
Lunch @ Lopburi Inn Resort, Lopburi

2.00pm-2.10pm

Opening by Lopburi Cancer Hospital Director

2.10pm-2.30pm

An overview of Lopburi Radiation Oncology Department
Mr Somsak Khuanchana, Chief Medical Physicist, Lopburi Cancer Hospital

2.30pm-3.15pm

Delta⁴: Spend less time on 3D patient specific QA with highest confidence
Mr Gorgen Nilsson, President & CEO, ScandiDos AB

3.15pm-3.30pm

Tea @ Lopburi Inn Resort, Lopburi

3.30pm-4.00pm

Delta⁴ Discover: The solution for in vivo dosimetry
Mr Komkrit Krongkietlearts, Medical Physicist, Lopburi Cancer Hospital

4.00pm-4.30pm

Delta⁴ Phantom+: The importance of 3D real-time measurement in patient specific QA
Mr Jeerawat Pimthong, Medical Physicist, Lopburi Cancer Hospital

4.30pm-5.00pm

Initial Experience with the Delta⁴ Phantom+ on Tomotherapy
Mr Lee Hee Siang, Senior Medical Physicist, Prince Court Medical Centre

5.00pm-5.30pm

Towards accurate and efficient 3D patient specific QA
Mr Sangutid Thongsawad, Medical Physicist, Chulabhorn Hospital

7.00pm-9.00pm

Dinner

Program

Day 2: 18 June 2017 (Sunday) @ Lopburi Cancer Hospital, Lopburi, Thailand

8.15am

Depart Lopburi Inn Resort to Lopburi Cancer Hospital

9.00am-12.00pm

Demonstration: Delta⁴ Discover & Delta⁴ Phantom+

Mr Daniel Nystrom, Application Specialist, ScandiDos AB

12.30pm

Depart Lopburi Cancer Hospital to Airport

1. An overview of Lopburi Radiation Oncology Department

Mr Somsak Khuanchana, Chief Medical Physicist, Lopburi Cancer Hospital

- Lopburi Cancer Hospital is the first hospital in South East Asia acquired real time in vivo dosimetry to enhance cancer patient care.
- Lopburi Cancer Hospital has 5 linacs: 2 Siemens, 3 VARIAN. Average patient load: 50 patient/day/linac

2. Delta⁴: Spend less time on 3D patient specific QA with highest confidence

Mr Gorgen Nilsson, President & CEO, ScandiDos AB

- Delta4 provides complete QA for rotational radiation therapy from plan to last fraction.
- By using Delta4 Phantom+ and Delta4 Discover, medical physicists able to optimise QA workflow and spend less time for QA.

3. Delta⁴ Discover: The solution for in vivo dosimetry

Mr Komkrit Krongkietlearts, Medical Physicist, Lopburi Cancer Hospital

- Delta4 Discover allows accurate dose delivery verification during patient treatment.
- Delta4 Discover has 4040 detectors, less than 1% skin dose and less than 1% attenuation.
- Delta4 Discover is currently used as research purpose.

4. Delta⁴ Phantom+: The importance of 3D real-time measurement in patient specific QA

Mr Jeerawat Pimthong, Medical Physicist, Lopburi Cancer Hospital

- Delta4 Phantom+ is new wireless 3D patient specific QA provide fast and accurate dose verification.
- Delta4 Phantom+ uses p-Si detector, 1069 detectors, max field size is 20 x 38 cm².

5. Initial Experience with the Delta⁴ Phantom+ on Tomotherapy

Mr Lee Hee Siang, Senior Medical Physicist, Prince Court Medical Centre

- Delta4 Phantom+ is able to replace film dosimetry for TomoTherapy QA.
- Delta4 Phantom+ is easy to use to perform DQA-Plans with instant result, no more struggling with film based DQA.
- Delta4 Phantom+ is wireless, immediate setup, able to merge pan for long field (38 cm), and high spatial resolution.

6. Towards accurate and efficient 3D patient specific QA

Mr Sangutid Thongsawad, Medical Physicist, Chulabhorn Hospital

- Chulabhorn Hospital has been using Delta4 PT since 2012.
- The hospital is moving forward from 2D QA to 3D QA to enable them to have more information for plan evaluation, to access clinical outcomes for target coverage, normal organ dose and DVH.
- Delta4 PT can detect collimator, gantry, MLC, and MU errors in VMAT.
- Delta4 PT has equal sensitivity with PDIP (portal dose image prediction) when gamma criteria was decrease.