

ESTRO m e e t s ASIA

2019

PROGRAMME BOOK
& EXHIBITION GUIDE

#ESTROAsia19

ESTRO
CONFE
RENCE

6-8 December 2019
Singapore



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ASIA
2019

ESTRO
European Society
for Radiotherapy & Oncology

Rue Martin V, 40
1200 Brussels
Belgium

WWW.ESTRO.ORG



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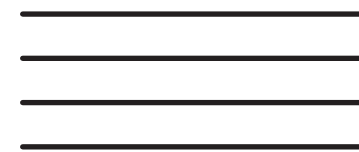
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General Information

Venue

Singapore Expo
Max Atria entrance
1 Expo Dr, Singapore 486150

Exhibition

An exhibition featuring equipment and medical publishers will be held in the exhibition area. The opening of the exhibition will take place on Friday 6 December 2019 at 09:30 and it will remain open until 8 December included. Entrance is free for all registered participants.

Insurance

The organiser does not accept liability for individual medical, travel or personal insurance. Participants are strongly advised to take out their own personal insurance policies. In case an unforeseen event would force ESTRO to cancel the meeting, the Society will reimburse the participants the registration fee minus 15% for handling charges. ESTRO will not be responsible for the refund of travel and accommodation costs.

Luncheons and refreshments

The registration fee for the conference includes coffee breaks and lunch to all participants and exhibitors wearing their conference badges.

Networking evening

A networking evening will be held in the exhibition area on Friday 6th December at the end of the session day.

Official language

The official language of the congress is English. No simultaneous translation will be provided.

Posters

Posters will be displayed in the poster area during the conference.

Scientific Programme Committee

Scientific Advisory Group (SAG) for Interdisciplinary component

Chairs:

Vincent Khoo (UK), Francis Chin (SG)

Members:

Jiade J. Lu (CN), Laure Maignol (IE), Tatsuya Ohno (JP), Jinsil Seong (KR), Shyam Shrivastava (IN), Vincenzo Valentini (IT)

Scientific Advisory Group (SAG) for Physics component

Chairs:

Marco Schwarz (IT), Jamema Swamidas (IN)

Members:

Taku Inaniwa (JP), Natalka Suchowerska (AU), Kari Tanderup (DK)

Scientific Advisory Group (SAG) for RTT component

Chairs:

Yat Man Tsang (UK), Sharon Wong (SG)

Members:

Bronwyn Hilder (AU), Taeyoon Kim (KR), Maddalena Rossi (NL), Gurvinder Singh Wadhawan (IN)

Abstract reviewers

Anam, C. (ID), Aznar, M. (UK), Heijmen, B. (NL), Baggarley, S. (SG), Bilimagga, R. (IN), Booth, J. (AU), Bourhis, J. (CH), C. Hurkmans (NL), Chalmers, A. (UK), Chin, F. (SG), Chitapanarux, I. (TH), Chopra, S. (IN), Coppes, R. (NL), D. Thorwarth (DE), Eriksen, J. G. (DK), Franco, P. (IT), Ganesh, T. (IN), Grégoire, V. (FR), Haas, R. L. M. (NL), Haryanto, F. (ID), Heijmen, B. (NL), Hilder, B. (AU), Hiraoka, M. (JP), Hoskin, P. (UK), Hurkmans, C. (NL), Inaniwa, T. (JP), J. Eriksen (DK), Swamidas, J. (IN), James Lee (SG), Jornet, N. (ES), K. Tanderup (DK), Khoo, V. (UK), Kim, H. J. (KR), Kim, T. (KR), Kinshikar, R. A. (IN), Kodrat, H. (ID), Kovacs, G. (DE), Krisanachinda, A. (TH), Lara, P. (ES), Lassen, P. (DK), Lee, V. (HK), Lievens, Y. (BE), Luhr, A. (DE), Mahantshetty, U. (IN), Maignol, L. (IE), Marrazzo, L. (IT), Mel, M. (CM), Mohd Zahri, A. A. (MY), Nesvacil, N. (AT), O'Donovan, A. (IE), Oguchi, M. (JP), Ohno, T. (JP), Rasch, C. (NL), Ravindran, P. (IN), Rembielak, A. (UK), Ricardi, U. (IT), Rossi, M. (NL), Sarkar, B. (IN), Schwarz, M. (IT), Sharma, D. (IN), Shrivastava, S. (IN), Slotman, B. (NL), Sommat, K. (SG), Suchowerska, N. (AU), Suk Suh, T. (KR), Sun-Myint, A. (UK), Tanderup, K. (DK), Tham, I. (SG), Tsang, Y. M. (UK), Turner, S. (AU), Uchida, N. (JP), Ung, V. (MY), Upreti, R. (IN), Wadhawan, G. S. (IN), Wong, S. (SG), Wong, T. (US), Wu H. G. (KR), Yi, J. L. (CN), Yuang, Y. (CN)

Acknowledgements

ESTRO would like to extend a special thank you to the ESTRO meets ASIA Scientific Programme Committee for having accepted the responsibility to develop the scientific programme and for their valuable contribution to the conference.



SCIENTIFIC PROGRAMME

Friday 6 December 2019	14
Saturday 7 December 2019	25
Sunday 8 December 2019	35

● OPENING CEREMONY

Opening Ceremony

09:00 - 09:30 | Garnet 213

● TEACHING LECTURE

Image-Guided Stereotactic Body Radiotherapy

09:30 - 09:40 | Peridot 204-205

- 09:30 > Introduction
C. Hurkmans (The Netherlands)

● TEACHING LECTURE

Dosimetry and audits

09:30 - 10:30 | Topaz Concourse

Chair: *M. Schwarz (Italy)*

- 09:30 > Dosimetry audits: general principles and practical examples
N. Jornet (Spain)
- 10:00 > TPS - Requirements and limitations in small fields
J. Lee (Singapore)

SP-001

SP-002

● TEACHING LECTURE

IG Brachytherapy and combined modalities: future directions

09:30 - 10:30 | Garnet 213

Chairs: *L. Maignol (Ireland) and T. Ohno (Japan)*

- 09:30 > IG Brachytherapy and combined modalities: Future directions
S.K. Shrivastava, S.C. Sastri, G. Lavanya, R. Engineer, U. Mahantshetty, D. Borade (India)
- 10:00 > The Prostate experience
P. Hoskin (United Kingdom)

SP-003

SP-004

● TEACHING LECTURE

OAR delineation and treatment planning

09:30 - 10:30 | Topaz 220-225

Chairs: *S. Wong (Singapore) and J. Hu (Singapore)*

- 09:30 > Standardising OAR delineation for treatment planning
K. Thompson (Australia)
- 10:00 > Dosimetric comparison of VMAT and Tomotherapy
K. Se-Young (Republic of Korea)

SP-005

SP-006

● TEACHING LECTURE

Image-Guided Stereotactic Body Radiotherapy

09:40 - 10:05 | Peridot 204-205

- 09:40 > From frame-based stereotaxy to frameless image-guidance - a historical perspective
J. Booth (Australia)

● TEACHING LECTURE

Image-Guided Stereotactic Body Radiotherapy

10:05 - 10:30 | Peridot 204-205

- 10:05 > Radiobiology of SBRT
S. Siva (Australia)

● TEACHING LECTURE

Basic principles of dose prescription in SBRT

11:00 - 11:30 | Peridot 204-205

- 11:00 > Basic principles of dose prescription in SBRT
C. Hurkmans (The Netherlands)

● SYMPOSIUM

MR guidance in radiotherapy**11:00 - 12:00 | Topaz Concourse**Chair: *K. Tanderup (Denmark)*

- 11:00 > MR for treatment preparation and response assessment
L.C. Holloway (Australia) SP-007
- 11:20 > Clinical experiences and Dosimetry of MR guided X-ray Therapy (MRXT)
TBC SP-008
- 11:40 > Challenges for MR integrated Particle Therapy (MRIPT)
A. Lühr (Germany) SP-009

● SYMPOSIUM

AI in next century: RT department workflows in Modern RT dept – making improvements**11:00 - 12:00 | Garnet 213**Chairs: *F. Chin (Singapore) and P. Lambin (The Netherlands)*

- 11:00 > Autocontouring: Organs at risk, image recognition and online adaptive treatments
L. Boldrini (Italy) SP-010
- 11:20 > Autoplanning in clinical practice
L. Marrazzo (Italy) SP-011
- 11:40 > Electronic records – checklists, summations, and autocheck of planning
Z. Master (Singapore) SP-012

● SYMPOSIUM

Image Guided Adaptive Radiation Therapy**11:00 - 12:00 | Topaz 220-225**Chairs: *A. Wallis (Australia) and T.Y. Kim (Republic of Korea)*

- 11:00 > IGART training and education
M. Coffey (Ireland) SP-013
- 11:20 > Image Guided Adaptive Radiation Therapy: Principles and application
B. Alison (Australia) SP-014

- 11:40 > Real time IGART - Changing responsibilities for RTTs on the MR-linac

A. Betgen, J. Bilderbeek, T. Janssen, J. Kaas, M. Nowee, T. Vijlbrief, L. Wiersma, U. Van der Heide (The Netherlands)

SP-015

● TEACHING LECTURE

Non-respiratory induced motion and correction**11:30 - 12:00 | Peridot 204-205**

- 11:30 > Errors and margins in SBRT
M. Hoogeman (The Netherlands) SP-009

● TEACHING LECTURE

12:00 - 12:30 | Topaz 220-225

- 12:00 > Non-respiratory induced motion and correction
J. Booth (Australia)

● PROFFERED PAPERS

Dosimetry (Physics)**12:00 - 13:00 | Topaz Concourse**Chair: *J. Lee (Singapore)*

- 12:00 > Results from ACDS end-to-end dosimetry audit of spine and lung SBRT
J. Lye, M. Shaw, A. Alves, J. Supple, C. Davey, R. Brown, A. Cole, F. Kadeer, J. Kenny, J. Lehmann (Australia) OC-016
- 12:10 > National Audit Service Demonstrates Increased Precision in Reference Dosimetry
A. Alves, C. Davey, F. Kadeer, J. Supple, M. Shaw, R. Brown, J. Kenny, J. Lye (Australia) OC-017
- 12:20 > Comparison of 4 EBRTs and low-dose-rate brachytherapy for localised prostate cancer
K.H. Chang, D.W. Kim, C.S. Hong, K.S. Park, H.K. Byun, J. Kim, M. Han, H. Lee, K. Park, J.S. Kim, J. Cho (Republic of Korea) OC-018
- 12:30 > Contouring of metal artefact for bilateral hip prosthetics in radiation therapy prostate planning
V. Nguyen, A. Brown, J. Barber (Australia) OC-019

- 12:40 > Whole body integral dose and radiotherapy induced lymphocytopaenia.
T. Ruwanpura, L. Alagiyawanna, S. Gunasekara, S. Mahakanapathy, S. Surenanjan, A. Ramalingam, C. Rajasooriyar, K. Indranath, A. Choudhury, N. Joseph (Sri Lanka) **OC-020**
- 12:50 > Construction and Analysis of a "PICO" Dot OSL Detector for SRS Radiotherapy
M. Butson, E. Butson, J. Morales, R. Hill, P. Huang, A. Johnson (Australia) **OC-021**

● PROFFERED PAPERS

H&N and CNS**12:00 - 13:00 | Garnet 213***Chairs: S.K. Shrivastava (India) and B.A. Choo (Singapore)*

- 12:00 > If Chemoresistance is Harbinger of Radioresistance, can Hybrid Fractionation Schedule circumvent it?
D.S. Khan, K.M. Kamble, A.K. Diwan (India) **OC-022**
- 12:12 > Alpha-Emitting Radionuclide for the treatment of locally advanced recurrent SCC of the Skin and H&N
A. Popovtzer (Israel) **OC-023**
- 12:24 > Changes in brain tumour perfusion and diffusion characteristic during treatment
M. Jameson, P. Martin, F. Aly, E.S. Koh, R. Rai, V. Estall, G. Liney, P. Metcalfe, L. Holloway (Australia) **OC-024**
- 12:36 > Ventricular – Subventricular zone involvement – A Predictive factor for survival in Glioblastoma
V. Pareek, R. Bhalavat, M. Chandra, K. Kalariya, N. Reddy, Z. Moosa, A. Srivastava, A. Kapoor, D. Kawale, P. Bauskar (India) **OC-025**
- 12:48 > Usefulness of 3D-scanner in baseline and response evaluation of radiotherapy for scalp angiosarcoma
I. Soda, M. Masuzawa, N. Mamorita, A. Sekiguchi, S. Kawakami, T. Hayakawa, T. Kainuma, H. Ishiyama (Japan) **OC-026**

● POSTER VIEWING

Treatment delivery/Imaging**12:00 - 13:10 | Poster area***Chairs: Y.J. Lin (Singapore) and Z.H.P. Gan (Singapore)*

- 12:00 > Multiple Reference Points on Chest Wall for Reproducible DIBH Radiotherapy
H. Handoko, S. Gondhowiardjo (Indonesia) **PV-027**

- 12:12 > Association of Bladder Volume & Setup Error in two Standard Bladder Protocol in Prostate Cancer
Q. Jadhav, S. Deshpande, P. Umbarkar, S. Naidu, S. Shinde, N. Parmar, A. Jejurkar, P. Kamble, S. Ullagaddi, V. Anand, R. Bajpai, R. Harjani, R. Kabre, V. Kannan (India) **PV-028**
- 12:24 > Dosimetric Impact of plan of the day treatment scheme in IGRT of prostate cancer treatment.
K. Dharmendra (India) **PV-029**
- 12:36 > Initial experience in Hip Prosthesis using Photon Beam for RT treatment
M. Bhushan, D. Tripathi, L. Kumar, P. Ahlawat, M. Gairola (India) **PV-030**
- 12:48 > A sub-site specific analysis of errors and margins in high precision radiotherapy
M. Tyagi, M. Gairola, M. Mishra, G.S. Wadhawan, T. Suresh (India) **PV-031**

● TEACHING LECTURE

Respiratory induced motion and correction**12:30 - 13:00 | Peridot 204-205**

- 12:30 > Respiratory induced motion and correction
M. Hoogeman (The Netherlands)

● PLENARY SESSION

ImmunoOncology (IO)**14:30 - 15:15 | Garnet 213***Chairs: V. Khoo (United Kingdom) and F. Chin (Singapore)*

- 14:30 > IO and RT in lung cancer
U. Ricardi, S. Badellino, C. Mantovani (Italy) **SP-032**
- 14:52 > Radioimmunotherapy with high-energy charged particles and checkpoint inhibitors
M. Durante (Germany) **SP-033**

● TEACHING LECTURE

SBRT for primary liver cancer**15:15 - 16:15 | Peridot 204-205**

- 15:15 > SBRT for primary liver cancer
K. Dieckmann (Austria)

● TEACHING LECTURE

IGRT/Adaptive RT**15:15 - 16:15 | Topaz Concourse***Chair: J. Swamidas (India)*

15:15 > Quality in IGRT - Best practices to improve safety and efficacy
S. Shanmugam (India)

SP-034

15:45 > Deformable image registration - Commissioning and QA - Challenges
E.M. Vasquez Osorio (United Kingdom)

SP-035

● TEACHING LECTURE

Advance technologies: particles therapy current management and new horizons**15:15 - 16:15 | Garnet 213***Chairs: B. Slotman (The Netherlands) and J. Lu (China)*

15:15 > Radiobiology of particles therapy: principles and latest advances
L. Marignol (Ireland)

SP-036

15:35 > The Use of Carbon-Ion Radiation Therapy in the Management of Advanced Head and Neck Cancers -The Experience of the Shanghai Proton and Heavy Ion Center
J. Lu (China)

SP-037

15:55 > Carbon ion radiotherapy
T. Ohno (Japan)

SP-038

● TEACHING LECTURE

Advanced RTT practice**15:15 - 16:15 | Topaz 220-225***Chair: Y.M. Tsang (United Kingdom)*

15:15 > Advanced Practice; An ESTRO RTTC position
A. Duffton (United Kingdom)

SP-039

15:45 > Advanced practice: Implementation of APRT programme. An Asia experience
S. Wong (Singapore)

SP-040

● TEACHING LECTURE

Oligometastasis diseases**16:15 - 17:15 | Peridot 204-205**

16:15 > Oligometastasis diseases
S. Siva (Australia)

● ROUNDTABLE PANEL DISCUSSION

How to best use IGRT&ART technology in the clinic?**16:15 - 17:15 | Topaz Concourse***Moderator: T. Ganesh (India)**Panellists:**M. Dahele (The Netherlands)**J. Booth (Australia)**E.M. Vasquez Osorio (United Kingdom)**T. Wong (USA)**N. Jornet (Spain)*

● SYMPOSIUM

Conventional and unconventional approach in re-irradiation Palliation**16:15 - 17:15 | Garnet 213***Chairs: S. Rajiv (India) and P. Lambin (The Netherlands)*

16:15 > Partial volume tumour irradiation
V. Valentini, M. Massacesi (Italy)

SP-041

16:35 > Primary tumour irradiation in the metastatic setting
V. Khoo (United Kingdom)

SP-042

16:55 > Fractionation and re irradiation state of art
P. Hoskin (United Kingdom)

SP-043

● ROUNDTABLE PANEL DISCUSSION

Advanced roles of RTT case studies**16:15 - 17:15 | Topaz 220-225***Moderator: B. Hilder (Australia)**Panellists:**Y.M. Tsang (United Kingdom)**S.Y. Sin (Singapore)**A. Brown (Australia)*

● TEACHING LECTURE

SBRT for primary prostate cancer
17:45 - 18:45 | Peridot 204-205

- 17:45 > SBRT for prostate cancer
S. Siva (Australia)

● PROFFERED PAPERS

Chest**17:45 - 18:45 | Garnet 213**Chairs: *L. Boldrini (Italy) and C. Yip (Singapore)*

- 17:45 > Does whole breast irradiation have protective effect against ipsilateral axillary node recurrence?
S.W. Kim, P. Won, C. Won Kyung, C. Doo Ho, C. Mison (Republic of Korea) OC-044
- 17:55 > Deep neural network based prognostic modelling for lung cancer utilising radiomics and clinical data
K. Chufal, I. Ahmad, R. Chowdhary, A. Pahuja, R. Singh (India) OC-045
- 18:05 > Validations of the 8th edition of AJCC staging system for patients with pancreatic cancer
X. Zhu, X. Ju, Y. Cao, X. Zhao, Y. Shen, F. Cao, S. Qing, L. Gu, F. Fang, Z. Jia, H. Zhang (China) OC-046
- 18:15 > Australian experience of SBRT in early and advanced stage hepatocellular carcinoma
H. Liu, D. Lee, K. McLean, D. Leggett, P. Hodgkinson, J. Fawcett, R. Mott, K. Stuart, D. Pryor (Australia) OC-047
- 18:25 > Patterns of local failure and outcomes of patients with BED10 of 60-70Gy and BED10 over 70Gy
X. Zhu, X. Ju, Y. Cao, Y. Shen, X. Zhao, F. Cao, S. Qing, L. Gu, F. Fang, Z. Jia, H. Zhang (China) OC-048
- 18:35 > Avoiding garbage in: A consensus workshop for refining gastric cancer radiotherapy atlas data
K. CLOAK, M.G. Jameson, M. Lee, J. Chu, J. Tan, P. Tran, P. Chlap, J. Dowling, T. Leong, L. Holloway (Australia) OC-049

● PROFFERED PAPERS

Treatment delivery/Imaging
17:45 - 18:45 | Topaz 220-225Chairs: *M. Coffey (Ireland) and T.Y. Kim (Republic of Korea)*

- 17:45 > Assessment of setup accuracy using SGRT, CBCT in skull & HN patients treated with IM proton therapy
D.S Sunil, C. Srinivas, G. Utpal (India) OC-050
- 17:55 > To determine an imaging regime for Linac based VMAT SRS. Are we going overboard with image guidance?
V. Manivasagan, H. Ho, R. Beldham-Collins, C. Owen, C. Agustin, N. Nahar (Australia) OC-051
- 18:05 > Assessing the impact of two different methods of CBCT registrations on setup errors in H&N patients
T. Singh, T. Kataria, K. Narang, C. Kalra, D. Manigandan, S. Venkatesan (India) OC-052
- 18:15 > ART in prostate cancer: how to use an offline approach with daily CBCT and deformable registration
L. Capone, F. Lusini, F. Cavallo, B. Nardiello, B. Tolu, L. Nicolini, P. Gentile (Italy) OC-053
- 18:25 > Motion Management Technique by -RPM for Treating Left side Breast carcinoma by Radiotherapy
R. Kaul, R.K. Munjal, H. Malhotra, R. Kumar, D. Kumar (India) OC-054
- 18:35 > Quality of Life Outcomes in Patients with Head & Neck Cancer treated with IMRT Compared to 3D-CRT
D. Debojyoti (India) OC-055

● POSTER VIEWING

Dosimetry**17:45 - 18:45 | Poster area**Chair: *T. Wong (USA)*

- 17:45 > Feasibility of a tungsten rubber grid collimator for electron grid therapy
K. Kijima, A. Krisanachinda, M. Tamura, Y. Nishimura, H. Monzen (Japan) PV-056
- 18:00 > Development of novel method for remote IMRT audit using digital linac log data
H. Zin, N.H. Yaakub, N.S. Midi, K. Sakaria, N. Afrina, A.T. Abdul Rahman, N.M. Ung, J.W. Loong, K.H. Ng (Malaysia) PV-057

- 18:15 > PCSR correction factors of two measurement guided dose reconstruction 2D array for WFF & FFF
R. Leung, W.Y.V. Lee, M. Wong, S. Cheung, G. Law, M. Chan (Hong Kong (SAR) China)
- 18:30 > Dosimetric verification of Cs-137 Blood Irradiator using TLD, Radchromic film and FBX dosimeter
C. Tambe, R. Kinkhikar, Y. Ghadi, D. Deshpande, R. Kenjale, P. Desai (India)

PV-058

PV-059

Saturday 7 December 2019

● TEACHING LECTURE

SBRT treatment planning, plan evaluation and dose reporting

09:00 - 10:00 | Peridot 204-205

- 09:00 > SBRT treatment planning, plan evaluation and dose reporting
C. Hurkmans (The Netherlands)
- 09:30 > SBRT treatment planning, plan evaluation and dose reporting
M. Hoogeman (The Netherlands)

● TEACHING LECTURE

Radiobiology

09:00 - 10:00 | Topaz Concourse

Chair: *T. Ganesh (India)*

- 09:00 > Preclinical research to promote precision radiotherapy
O. Takahiro (Japan)
- 09:30 > Targeting the physics, but missing the biology
N. Suchoverska, D.R. McKenzie (Australia)

SP-060

SP-061

● TEACHING LECTURE

BREAST – hypofractionation, brachy and motion management

09:00 - 10:00 | Garnet 213

Chairs: *U. Mahantshetty (India) and Y. Lievens (Belgium)*

- 09:00 > Molecular radiation response of breast cancer: advances and clinical potential
L. Maignol (Ireland)
- 09:20 > Clinical outcomes of radiation treatment in inoperable and fungating breast cancers: the Asian experience
B.A. Choo (Singapore)
- 09:40 > Is there a role for dose escalation in Locally Advanced Breast Cancer (LABC)
S. Rajiv (India)

SP-062

SP-063

SP-064

● TEACHING LECTURE

Patient positioning and motion management**09:00 - 10:00 | Topaz 220-225**

Chair: M. Coffey (Ireland)

09:00 > Motion management in radiotherapy
Y.M. Tsang (United Kingdom)

SP-065

09:30 > The impact of patient positioning and preparation with advanced radiation therapy treatment techniques
A. Wallis (Australia)

SP-066

● TEACHING LECTURE

ESTRO ACROP practice guideline of SBRT for stage I NSCLC**10:00 - 11:00 | Peridot 204-205**10:00 > ESTRO ACROP practice guideline of SBRT for stage I NSCLC
C. Hurkmans (The Netherlands)

● SYMPOSIUM

Particle Therapy**10:00 - 11:00 | Topaz Concourse**

Chair: M. Durante (Germany)

10:00 > Current status and future perspectives of proton radiotherapy
M. Schwarz (Italy)

SP-067

10:20 > Current status and future perspective of carbon-ion radiotherapy
T. Inaniwa (Japan)

SP-068

10:40 > Latest developments in range estimation and range verification
K. Parodi (Germany)

SP-069

● SYMPOSIUM

GI (upper and lower)**10:00 - 11:00 | Garnet 213**

Chairs: S.K. Shrivastava (India) and R. Haas (The Netherlands)

10:00 > Oesophageal cancer: the past, present and future
C. Yip (Singapore)

SP-070

10:20 > And Cancer - Management Challenges in an Elderly Patient
F.L. Wei Tching (Singapore)

SP-071

10:40 > Rectum
V. Valentini (Italy)

SP-072

● SYMPOSIUM

Advances in photon RT**10:00 - 11:00 | Topaz 220-225**

Chairs: B. Hilder (Australia) and G.S. Wadhawan (India)

10:00 > Optimising treatment planning with Knowledge-Based Planning
K. Thompson (Australia)

SP-073

10:20 > Advances in Breast RT
G. Biju, R. Sarin, T. Wadasadawala, R. Pathak, J.P. Agarwal (India)

SP-074

10:40 > Advances in Head and Neck Radiotherapy: The Role of Advanced Practice Radiation Therapist
Y. Sin Sze (Singapore)

SP-075

● TEACHING LECTURE

SBRT for early stage NSCLC**11:30 - 12:00 | Peridot 204-205**11:30 > SBRT for early stage NSCLC
M. Dahele (The Netherlands)

● PROFFERED PAPERS

High Tech**11:30 - 12:30 | Topaz Concourse**

Chair: N. Jornet (Spain)

11:30 > Synthetic CT generation based on MRI of nasopharyngeal carcinoma using convolutional neural network
Y. WANG, X. Zhang, C. Liu, W. Deng (China)

OC-076

11:40 > Development of Gated Proton Imaging System for Moving Target
S. TANAKA, N. Miyamoto, T. Nishio, T. Yoshimura, S. Takao, Y. Matsuo, S. Shimizu, H. Shirato, T. Matsuura (Japan)

OC-078

11:50 > Assessment of Knowledge based planning model in combination with Multi-Criteria Optimisation in HN.
P. ANCHINEYAN, J. Amalraj, P. Jayaraman, B. Themantivada Krishnan, M. Ca, B. Balaji (India)

OC-079

12:00 > Liver an lung dose in deep inspiration breath hold (DIBH) radiotherapy to right breast/chestwall
S. Naidu, S. Deshpande, K. Chauhan, N. Parmar, S. Shinde, A. Jejurkar, S. Ullagaddi, P. Umbarkar, O. Jadhav, P. Kamble, V. Anand, R. Bajpai, R. Harjani, R. Kabre, V. Kannan (India) **OC-080**

12:10 > Knowledge based treatment planning and validation of VMAT for Cervical Cancer.
S. Pradhan, S. Panda, S. Chopra, S. Kannan, J. Swamidas (India) **OC-081**

● PROFFERED PAPERS

Pelvic

11:30 - 12:30 | Garnet 213

Chairs: P. Hoskin (United Kingdom) and T. Ohno (Japan)

11:30 > Does Lateral Pelvic Lymph-node dissection improve outcomes in locally advanced Ca rectum?
D. Adulkar, R. Engineer, A. Saklani, A. Desouza, V. Ostwal, A. Ramaswamy, A. Baheti, A. Katdare (India) **OC-082**

11:40 > Predicting 2 years distant metastasis rate in rectal cancer: a MRI delta radiomics model
L. Boldrini, G. Chiloiro, C. Casà, J. Lenkowitz, P. Rodriguez Carnero, C. Masciocchi, B. Barbaro, M.A. Gambacorta, D. Cusumano, N. Dinapoli, A. Damiani, R. Manfredi, V. Valentini (Italy) **OC-083**

11:50 > Hybrid Brachytherapy in locally advanced Cervical cancer: A Survival and toxicity profile assessment
V. Pareek, M. Chandra, R. Bhalavat, N. Kumar, K. George, L. Nellore, D. Borade (India) **OC-084**

12:00 > Role of intervention-Patient reported sexual adjustment following brachytherapy for cervical cancer
V. Pareek, M. Chandra, R. Bhalavat, U. Ambekar, S. John, D. Jain, L. Iyer (India) **OC-085**

12:10 > Whole Pelvic RT with SBRT boost Versus IMRT for Patients with High-Risk Localised Prostate Cancer
S.C. Wang, W.C. Ting, Y.C. Chang, C.C. Yang, Y.W. Lin (Taiwan) **OC-086**

● POSTER VIEWING

Patient preparations/other

11:30 - 12:30 | Poster area

Chairs: Y.B. Omar (Singapore) and J. Chua (Singapore)

11:30 > A Comparison for Pelvic Cancer External Beam Radiotherapy with and without Immobilisation Devices
D. Debojoyti (India) **PV-087**

11:42 > The initial experience of Icon Group, implementing a new radiotherapy service in China
R.T.T. Myers, D. Hocek (Australia) **PV-088**

11:54 > Transitioning to Acuros XB – Peter MacCallum Cancer Centre radiotherapy planning perspective
G. Osbourne, K. Thompson (Australia) **PV-089**

12:06 > Obstacles in error reporting system among radiotherapy facilities: Basis for an enhanced ILS policy
J. Riparip, J.A. Flores, J.C. Bentinegan (Philippines) **PV-090**

12:18 > significance of scan time delay in IV contrast administration in CT simulation of cancer patients
J.C. Bentinegan, J. Riparip, J. Flores (Philippines) **PV-091**

● TEACHING LECTURE

Role of the RTT with a focus on lung

12:00 - 12:30 | Peridot 204-205

12:00 > Role of the RTT with a focus on lung
Y.M. Tsang (United Kingdom)

● INDUSTRY SYMPOSIUM

12:30 - 14:00

● PLENARY SESSION

Adaptive Radiotherapy

14:00 - 14:45 | Garnet 213

Chairs: M. Schwarz (Italy) and J. Lu (China)

14:00 > Clinical rationale for adaptive radiotherapy
B. Slotman (The Netherlands) **SP-092**

14:22 > Challenges in the implementation - Physicist's perspective
J. Swamidas (India) **SP-093**

● TEACHING LECTURE

The challenge of brain metastases
14:45 - 15:45 | Topaz 220-225

- 14:45 > The challenge of brain metastases
K. Dieckmann (Austria)

● TEACHING LECTURE

Machine learning and automation
14:45 - 15:45 | Peridot 204-208

Chair: *E.M. Vasquez Osorio (United Kingdom)*

- 14:45 > Methods for automatic planning
T.L.S. Tang, M.F. Rhani (Singapore)
- 15:15 > Streamlining and accelerating treatment workflow in radiotherapy by deep learning.
N. Van den Berg, M. Maspero, M.H.F. Savenije (The Netherlands)

● TEACHING LECTURE

BEST of 2019 trials and presentations
14:45 - 15:45 | Garnet 213

Chair: *R. Haas (The Netherlands)*

- 14:45 > Best of ESTRO and ESMO 2019
B. Chia (Singapore)
- 15:15 > ASCO/ASTRO 2019
B. Vellayappan (Singapore)

● TEACHING LECTURE

Emerging technology
14:45 - 15:45 | Topaz 220-225

Chair: *M. Rossi (The Netherlands)*

- 14:45 > Introduction of proton therapy - RTT perspective
T.Y. Kim (Republic of Korea)
- 15:15 > MR-linac - RTT perspective
A. Betgen (The Netherlands)

SP-094

SP-095

SP-096

SP-097

SP-098

SP-099

● TEACHING LECTURE

SBRT for vertebral metastases
16:15-16.45 | Peridot 204-205

- 16:15 > SBRT for vertebral metastases
M. Dahele (The Netherlands)

● ROUNDTABLE PANEL DISCUSSION

Brachytherapy
16:15 - 17:15 | Topaz Concourse

Moderator: *K. Tanderup (Denmark)*

Panellists:

- W.Y.V. Lee (Hong Kong (SAR) China)*
E. Tharavichitkul (Thailand)
J. Swamidas (India)
U. Mahantshetty (India)
S. Abdollahi (Islamic Republic of Iran)

● SYMPOSIUM

Imaging for 4D Radiotherapy
16:15 - 17:15 | Garnet 213

Chairs: *L. Boldrini (Italy) and T. Wong (USA)*

- 16:15 > Near real-time and real-time 4D radiotherapy
M. Hoogeman (The Netherlands)
- 16:35 > Theranostics In Nuclear Medicine
K. Loke (Singapore)
- 16:55 > Radiomics: transforming standard imaging into mineable data related for diagnostic and theragnostic applications
P. Lambin (The Netherlands)

SP-100

SP-101

SP-102

● ROUNDTABLE PANEL DISCUSSION

Risk management and quality standards of the new RT technologies
16:15 - 17:15 | Peridot 201-203

Moderator: *G.S. Wadhawan (India)*

Panellists:

- M. Coffey (Ireland)*
T.Y. Kim (Republic of Korea)
A. Wallis (Australia)
M. Gairola (India)

● TEACHING LECTURE

Role of the RTT in SBRT for liver, brain and prostate
16:45 - 17:15 | Peridot 204-205

- 16:45 > Brain / liver /prostate SBRT - the role of the RTT
A. Duffton (United Kingdom)

● TEACHING LECTURE

QA and safety in SBRT
17:15 - 17:35 | Peridot 204-205

- 17:15 > QA and safety in SBRT
C. Hurkmans (The Netherlands)

● PROFFERED PAPERS

Others**17:15 - 18:15 | Garnet 213**Chair: *S. Turner (Australia)*

- 17:15 > IORT Treatment in The Early Stage Breast Cancer patients – A Cost Utility Analysis
T. Tungkasamit, I. Chaiwiriabunya, N. Munpolsri, K. Kengkla, S. Saokaew (Thailand) **OC-103**
- 17:27 > Evaluating an Oncology Artificial Intelligence (AI) Tool in a Regional Cancer Centre
J. Hutton, J. Khong, M. Penniment (Australia) **OC-104**
- 17:39 > microRNA-16-5p evokes cell cycle arrest and enhances radiosensitivity in prostate cancer cells
E. Wang, H. Zhang (China) **OC-105**
- 17:51 > Radiotherapy in Developing Countries
A. Huynh, G. Morgan, B. Healy, C. Opie, K. Foster (Australia) **OC-106**
- 18:03 > A Novel Programme for Conversion from Tetrahedral-mesh Phantom to DICOM Format
B.W. Cheon, M.C. Han, K.W. Park, K.H. Jang, J.H. Kim, C.H. Min (Republic of Korea) **OC-107**

● PROFFERED PAPERS

Patient preparations/others**17:15 - 18:15 | Topaz 220-225**Chairs: *A. Brown (Australia) and Y. Sin Sze (Singapore)*

- 17:15 > Investigation of radiation influence of novel 3D printing material in the field of radiotherapy
Y. Wang, R. Lewis, C.S. Chuang (China) **OC-108**
- 17:30 > Implementing a Pre-simulation Assessment Session for abdominal SABR: respiratory motion management
M. Galayini, M. Hazem, A. Wallis, M. Lee, S. Arumugam, C. Choong, S. Tang (Australia) **OC-109**
- 17:45 > Sexual Health Education for Singaporean Cancer Patients- A Necessity or Not?
V. Naidu (Singapore) **OC-110**
- 18:00 > Mind the Gap: Identifying opportunities for service improvement
B. Hilder, K. Doherty, P. Van Dam (Australia) **OC-111**

● POSTER VIEWING

Treatment planning**17:15 - 18:15 | Poster area**Chairs: *L. Marrazzo (Italy) and L.C. Holloway (Australia)*

- 17:15 > Analysis of Dosimetrical and Radiobiological Parameters on VMAT Techniques for Left Breast Cancer
S. Kang, K.H. Kim, S.W. Kang, T.S. Suh, J.B. Chung (Republic of Korea) **PV-112**
- 17:30 > Development and Validation of the Intensity-modulated Accurate Radiotherapy System KylinRay-IMRT
J. Jia, H. Zheng, M. Cheng, J. Zhao, J. Song, G. Song, T. He, Y. Wu (China) **PV-113**
- 17:45 > are HDR 192Ir and 60Co sources biologically equivalent in cervical cancer brachytherapy?
S. Abdollahi, M. Dayyani, L. Rafat Motavalli, H. Miri Hakimabad, E. Hoseinian Azghadi (Islamic Republic of Iran) **PV-114**
- 18:00 > Testing CBCT image Quality Assurance Using Process Capability Indices
S. Alani, T. Yonina, G. Eliahu, Z. Jamal (Israel) **PV-115**

● TEACHING LECTURE

Current and future development in SRS and SBRT
17:35 - 18:15 | Peridot 204-205

- 17:35 > Current and future development in SRS and SBRT
M. Hoogeman (The Netherlands)
- 17:55 > Current and future development in SRS and SBRT
M. Dahele (The Netherlands)

Sunday 8 December 2019

● SYMPOSIUM

Making it happen: Seeding leadership, education, advocacy in high end technology**09:00 - 10:30 | Garnet 213***Chairs: V. Valentini (Italy) and J. Swamidas (India)*

- 09:00 > Building Radiation Oncology Leadership: Capacity through Education
S. Turner (Australia) **SP-117**
- 09:30 > Education
U. Mahantshetty (India) **SP-118**
- 10:00 > Advocacy
Y. Lievens (Belgium) **SP-119**

● PLENARY SESSION

True life stories of implementing new technologies: Focus on leadership, education, advocacy**11:00 - 12:30 | Garnet 213***Chairs: U. Ricardi (Italy) and F. Chin (Singapore)*

- 11:00 > Implementation of a Library of plans strategy for various target areas
M. Rossi (The Netherlands) **SP-120**
- 11:20 > The Experience of the Shanghai Proton and Heavy Ion Center
J. Lu (China) **SP-121**
- 11:40 > Thailand 3D MRI brachy in Chiang Mai: Fairytale story from a 'provincial hospital in Thailand to a EMbrace triallist center
E. Tharavichitkul (Thailand) **SP-122**
- 12:00 > Discussion

● CLOSING CEREMONY

12:30 - 12:45 | Garnet 213

U. Ricardi (Italy)



POSTERS

Posters

38

● POSTER

Clinical track: Head and Neck

- > Clinical profile and treatment outcomes of radical radiotherapy in carcinoma buccal mucosa
C.T. Kainickal, Z. Shabin, R. R. Kumar, M. Rafi, L. A. Lonappan, P.S. George, R. Kunnambath (India)
PO-123
- > Intensity Modulated Radiotherapy(IMRT) in nasopharyngeal carcinoma –a retrospective analysis
F. N. C. Kainickal Thommachan, R. Kumar, M. Rafi, P. George, R. Kunnambath (India)
PO-124
- > Induction chemotherapy in Locally Advanced Nasopharyngeal carcinoma is of benefit ?
S. Benkhalel, M. Mané, T. Dragan, S. Beauvois, Y. Lalami, D. Van Gestel (Belgium)
PO-125
- > The treatment of IMRT vs 3DCRT for maxillary sinus cancer combination with intra-arterial cisplatin
K. Konishi, M. Kamiya, R. Ishiba, T. Komatsu, T. Ikenohira, T. Asao, T. Ushio, S. Yamashita, T. Kosugi, J. Okamura, S. Hosokawa, H. Mineta, S. Goshima, K. Nakamura (Japan)
PO-126
- > Comparison of Treatment Outcomes Between Adenoca and Squamous Cell Ca of the Major Salivary Gland
D.S. Lee, M.K. Kang, C.G. Lee, K.C. Keum, J.H. Kim, Y.S. Kim, J.H. Kim, S.H. Moon, K.M. Kang, Y.T. Oh, H.G. Wu, K.H. Cho (Republic of Korea)
PO-127
- > Neoadjuvant chemoradiotherapy for Laryngeal Synovial Sarcoma: Management of a rare case
E.M. CRUZ-LIM, J.P. Cañal, B. De Guzman (Philippines)
PO-128
- > Definitive radiotherapy in oligometastatic head and neck cancers responding to systemic therapy
S. TANDON, M. Gairola, P. Ahlawat, R. Narang, A. Varghese, M. Sharma (India)
PO-129
- > Postoperative radiotherapy for high-risk head and neck squamous cell carcinoma
Y. Hamamoto, S. Tsuruoka, N. Takata, H. Ishikawa, K. Nagasaki, T. Mochizuki (Japan)
PO-130
- > The applicability of NLR in predicting the survival of NPC: an evidence-based case report
N.F. Zhafirah, V.F. Jayalie, S.M. Sekarutami, S. Gondhowiardjo (Indonesia)
PO-131

- > Possible role of radiotherapy in the management of orbital solitary fibrous tumours: a case series
R.E. Cereno, J.P. Cañal, F.K. Ranche (Philippines)
PO-132
- > CONCURRENT CHEMORADIATION IN HEAD AND NECK CANCERS COMPARING WEEKLY CISPLATIN VS ORAL HYDROXYUREA
P. Vias, M. Gupta (India)
PO-133
- > The Effects of Arabinoxylan rice bran among Head and Neck Cancer Patients Undergoing Radiotherapy
J.A. Flores (Philippines)
PO-134

● POSTER

Clinical track: CNS

- > Fractionated Stereotactic Radiotherapy (FSR) for craniopharyngiomas
R. Ching Lopez, I. Tovar, R. Del Moral, R. Ching Lopez (Spain)
PO-135
- > Treatment Response of Primary Brain Tumour Treated with 3D Conformal Radiotherapy
A.K.P. Tun, Y.Y. Nu, M.M. Aung (Myanmar)
PO-136
- > Adjuvant Radiotherapy for atypical Meningiomas
U. Krishna, N. T, L. V, V. C, T. Pasha (India)
PO-137
- > AN INSTITUTIONAL RETROSPECTIVE STUDY IN QUEST FOR APT RE-IRRADIATION DOSE IN RECURRENT BRAIN GLIOMAS
R. Chowdhary, K. Chufal, A.K. Pahuja, I. Ahmad, R. Singh, A.V. Sundari, G. Vishwakarma (India)
PO-138
- > Cushing's disease outcomes with conventional fractionated modern stereotactic conformal or IM-IGRT
R. Krishnatry, M. Maitre, J. Goda, R. Jalali, A. Moiyadi, T. Gupta (India)
PO-139
- > Brain metastasis-Clinical profile & outcomes of patients treated with Radiotherapy in last 10 years
A. Garg, P. Kumar, A. Chauhan, P. Kumar (India)
PO-140

● POSTER

Clinical track: Haematology

- > Long term clinical outcomes of Radiotherapy in patients of Mediastinal Non-Hodgkin's lymphoma.
A. Kakade, S. Laskar (India)
PO-141



● POSTER

Clinical track: Breast

- > Impact of adjuvant radiotherapy on biological and clinical parameters in right-sided breast cancer
D. Lauffer, P. Kuhn, S. Thalmann, T. Breuneval, M. Laouiti, M. Petra, P.A. Tercier, G. Risse, A. Allal (Switzerland)
- > A phase I/II trial of intraoperative breast radiotherapy in an Asian population: 10-year results
M. Kawamura, I. Yoshiyuki, T. Kamomae, J. Ito, Y. Oie, K. Ohtakara, S. Naganawa (Japan)
- > Dosimetric comparison of TomoDirect, Helical Tomotherapy, and VMAT for postmastectomy treatment
W. Nobnop, I. Chitapanarux, P. Phakoetsuk, D. Tippanya, D. Khamchompoo (Thailand)
- > Liver radiation doses using three caudal border fields in right sided breast radiotherapy
K.J. Lo (Philippines)
- > Retrospective Analysis of Adjuvant Radiotherapy in Phyllodes Tumour: Single-Institute Study
C. Pratoomchart, K. Assavanopakun, W. Onchan (Thailand)

PO-142

PO-143

PO-144

PO-145

PO-146

● POSTER

Clinical track: Lung

- > Treatment patterns and survival after post-operative radiotherapy in non-small cell lung cancer
H. Kumaraswamy, A. Tibdewal, N. Mummudi, G. Karimundacal, S. Jivnani, K. Prabhash, N. Purandare, A. Janu, J. Agarwal (India)
- > Never smoker Indian females with Lung Cancer: Life still going up in smoke?
D.S. Khan, K.M. Kamble, A.K. Diwan (India)
- > Radiation Treatment-Related Toxicities in Non-Small Cell Lung Cancer: A Systematic Review
M. Or, B. Liu, W. Xuan, S. Vinod, R. Yeghiaian-Alvandi, E. Hau (Australia)
- > IDENTIFYING PROGNOSTIC GROUPS USING MACHINE LEARNING TOOLS FOLLOWING CHEMORADIATION FOR NSCLC.
A. Pahuja, K.S. Chufal, I. Ahmad, R. Singh, R.L. Chowdhary, M. Sharma (India)

PO-147

PO-148

PO-149

PO-150

● POSTER

Clinical track: Upper GI (oesophagus, stomach, pancreas, liver)

- > Long-term Outcome of Definitive Chemoradiotherapy for Resectable Locally Advanced Esophageal Cancer
L. Nishibuchi, Y. Murakami, T. Kameoka, M. Ochi, N. Imano, Y. Takeuchi, I. Takahashi, T. Kimura, Y. Nagata (Japan)
- > Association of responses to the analgesic agent with outcomes in patients with pancreatic cancer
X. Zhu, X. Ju, Y. Cao, X. Zhao, Y. Shen, F. Cao, S. Qing, L. Gu, F. Fang, Z. Jia, H. Zhang (China)
- > Outcomes and clinical experience of phase gated stereotactic body radiotherapy in liver
S. Aggarwal, S. Mitra, A. Dewan, I. Kaur, R. Khurana, S. Barik, A. Vivekananda, K. Dobriyal, K. Raman (India)
- > Carbopaxol versus CDDP/5FU definitive chemoradiotherapy for squamous cell carcinoma of esophagus
E. Prais, P. Jayaprakash, G.S. Narayanan (India)
- > Malignant Esophago-Respiratory Fistulas: An institutional audit of treatment outcomes
I. Ahmad, K. Chufal, R. Chowdhary, R. Bajpai, A. Pahuja, R. Singh, M. Gairola (India)

PO-151

PO-152

PO-153

PO-154

PO-155

● POSTER

Clinical track: Lower GI (colon, rectum, anus)

- > Outcomes of Preoperative Short-Course 3D-Conformal Radiotherapy in Carcinoma of Rectum
N.W. Htway, S.W.W. Seinn, S.K. Wah (Myanmar)
- > Predictive factors and survival outcomes with SBRT in oligometastases in colorectal cancer
V. Pareek (India)

PO-156

PO-157

● POSTER

Clinical track: Gynaecological (endometrium, cervix, vagina, vulva)

- > Dosimetric comparison of 3D and 2D vaginal brachy in post-op patients with endometrial/cervical cancer
A. Dewan, S. Mitra, A. Varghese, S. Aggarwal, I. Kaur, R. Khurana, K. Raman, S. Tamilarasu, M. Bhushan, S. Dutta, S. Barik, A.V. Sundari, K. Dobriyal (India)

PO-158
- > Practice patterns in brachytherapy for cervical cancer in the Philippines: a national survey
R.E. Cereno, J.P. Cañal (Philippines)

PO-159
- > The Current Reports of the Advancing HDR-IGABT for Cervical Cancer in Siriraj Hospital
N. Chareonsirawat, S. Manopetchkasem, W. Sittiwong, T. Prasartseree, P. Dankulchai (Thailand)

PO-160
- > Low Tesla MRgRT in neoadjuvant chemoradiotherapy for locally advanced cervical cancer
L. Boldrini, A. Piras, G. Chiorio, R. Autorino, D. Cusumano, B. Fionda, A. D'aviero, M. Campitelli, F. Marazzi, F. Cellini, V. Valentini, M.A. Gambacorta (Italy)

PO-161
- > Predicting response to neoadjuvant chemoradiotherapy in cervical cancer: a MR-based radiomics model
L. Boldrini, A. Pesce, R. Autorino, J. Lenkowicz, D. Cusumano, B. Gui, L. Russo, M.G. Ferrandina, G. Macchia, G. Sallustio, M.A. Gambacorta, R. Manfredi, V. Valentini (Italy)

PO-162
- > Outcomes after Co-60 HDR brachytherapy for cervical cancer in a tertiary hospital in the Philippines
R.E. Cereno, B. Yap, L. Chavez, M.J. Germar, M. Eala, E.J.J. Fragante (Philippines)

PO-163

● POSTER

Clinical track: Urology

- > Toxicity outcome in prostate cancer patients treated with VMAT: A single institute experiences
A.F.M. Kamaluddin, M.A. Sumon, S. Ahmed, K.R. Mani, M.A. Bhuiyan, K.E. Hauqe, S.S. Ahmed (Bangladesh)

PO-164

- > Comparison of plan quality with KBP for prostate VMAT plan established in three different term
M. Otsuka, H. Monzen, M. Tamura, K. Kazuki, K. Matsumoto, N. Yasumasa (Japan)

PO-165
- > Clinical and Dosimetric parameters for Late Rectal toxicities after radical IMRT for prostate cancer
Y.H.B. Ng, L.M. Yu, T.S. Lau, K.S. Law, C.K.A. Cheng (Hong Kong (SAR) China)

PO-166
- > A case of CRPC with multiple bladder invasions treated with EBRT following HDR-BT boost
Y. Takagawa, J. Itami (Japan)

PO-167

● POSTER

Clinical track: Sarcoma

- > Dermatofibrosarcoma protuberans of the upper eyelid treated with surface mould HDR brachytherapy
K. Jamora, V. Hizon, R.E. Cereno, E. Inocencio, M.G. Ceballos (Philippines)

PO-168
- > Adjuvant Radiotherapy in Post-operative Recurrence Primary Leiomyosarcoma of Breast: A Case Report
N.A. Wulandari, S. Gondhowiardjo (Indonesia)

PO-169

● POSTER

Clinical track: Other (including health economics, communication, palliation)

- > Clinical criteria for evaluating the effectiveness of radiotherapy of bone metastases.
N. Bychkova, E. Khmelevsky (Russian Federation)

PO-170
- > Epidural infusion for making palliative radiotherapy possible in patients with intractable pain
M. Basma (Vietnam)

PO-171
- > THYMOMA- LARGEST INDIAN SINGLE INSTITUTIONAL EXPERIENCE
R. Chowdhary, K. Chufal, A.K. Pahuja, I. Ahmad, R. Singh, M. Sharma (India)

PO-172
- > AMBULATION STATUS AFTER EMERGENCY RADIOTHERAPY FOR METASTATIC SPINAL CORD COMPRESSION
W. Onchan (Thailand)

PO-173

- > Stereotactic Ablative Radiation Therapy for Spine Metastases at ADHB
E. Myburgh, R. Lane (New Zealand)

PO-174

● POSTER

Physics track: Implementation of 3D CRT&IMRT: technology, treatment planning, delivery and QA

- > Evaluation output variability in TrueBeam Linac using Process capability indices
S. Alani, T. Yonina, G. Eliahu, Z. Jamal (Israel)
- > Usefulness of SBRT treatment plan combined with 99mTc-GSA for hepatocellular carcinoma
T. Taniguchi, F. Hyodo, T. Shimozato, K. Oono, O. Tanaka, M. Matsuo (Japan)
- > Optimum photon beam procurement in modern radiotherapy departments
M. Mundayadan Chandroth, A. Venning, B. Chick, B. Waller (Australia)
- > A single institutional audit of setup errors for 3DCRT rectal cancers
W.Z. Chew, W.L. Jong, Z. Jamaluddin, H. Fasha, A. Kadri, A. Mohamad, G.F. Ho (Malaysia)
- > Multi-Criteria Optimization with sliding-window VMAT delivery vs classical VMAT in H&N and SBRT
W.Y.V. Lee, R. Leung, M. Wong, S. Cheung, K. Kwan (Hong Kong (SAR) China)

PO-175

PO-176

PO-177

PO-178

PO-179

● POSTER

Physics track: Image guidance and adaptive RT

- > Using 3D printed inserts in an electron density phantom to characterise dual energy CT (DECT)
C.S. Chuang, Y. Wang, X. Ding (China)

PO-180

● POSTER

Physics track: Dosimetry (including audits)

- > Clinical Implementation of SMART Armour for Radiotherapy
M. Butson, M. Butson, E. Butson (Australia)

PO-181

● INTERDISCIPLINARY ● RADIOBIOLOGY ● CLINICAL ● PHYSICS ● RTT

● POSTER

Physics track: SBRT

- > Using design of experiments to optimise planning parameters for SBRT lung Single Iso Multi-Lesion
S. Alani, G. Eliahu, T. Yonina, Z. Jamal (Israel)
- > Single Iso Lung SBRT for Multiple Lesions: Rotation Error effects on plan Clinical Acceptability
S. Alani, G. Eliahu, T. Yonina, Z. Jamal (Israel)
- > An analysis of TomoEDGE - "A method to reduced the dose penumbra" in SRS / SBRT using Tomotherapy
N.V.N.M. Sresty, A. Krishnam Raju, G. Deleep Kumar, Y. Mohmd, T. Anil Kumar (India)

PO-182

PO-183

PO-184

● POSTER

Physics track: Particle therapy

- > Longitudinal radiochromic-film dosimetry for carbon-ion radiotherapy
N. Kanematsu, H. Mizuno, T. Nakaji, S. Yonai, S. Matsumoto, T. Inaniwa (Japan)

PO-185

● POSTER

Physics track: Other

- > A Case Study of the Application of Deep Learning Framework for the Segmentation of Lung in Indonesia
M. Haekal, F. Haryanto, I. Arif (Indonesia)
- > Optimization of the selection filter for proton computed tomography
G.F. Peñonal, C.T. Quiñones (Philippines)

PO-186

PO-187

● POSTER

Interdisciplinary track: Professional Education and training

- > Improving Outcomes in Patients of Breast Cancer with Integrated Oncology Services.
A. Kakade, P. Dandekar, J. Patel, A. Contractor (India)

PO-188

- > Training teamwork and safe clinical practice using full immersion simulation
R. Lane (New Zealand)

● POSTER

Radiobiology track: Radiobiology

- > Local and systemic abolition of metastatic cancer by alpha particle brachytherapy and immunotherapy
Y. Keisari, V. Domankevich-Bachar, A. Cohen, M. Efrati, S.R. Bellia, G. Feliciani, M. Monti, M. Schmidt, I. Kelson (Israel)

PO-190

● POSTER

RTT track: Positioning and immobilisation

- > Patient position for Brain SRS/SRT with SGRT and open face thermoplastic mask
L. Curic, D. Vukasinovic, B. Ivanov, L. Bajcetic (Serbia)

PO-191

● POSTER

RTT track: Treatment verification

- > Development of a Geant4-based 4D DQA System Using patient-specific 4D CT: Preliminary Study
B.W. Cheon, M.C. Han, J.S. Kim, C.S. Hong, K.H. Chang, J. Kim, C.H. Min (Republic of Korea)

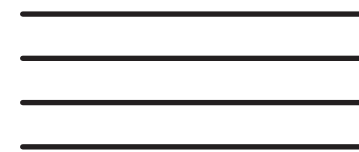
PO-192

● POSTER

RTT track: Other

- > Icon Group expands into China: RT experience in install, training & treatment workflow with Halcyon.
Z. Vasilakis, K. Reid, D. Hocek, R. Myers, C. Smith (Australia)

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Elekta

Friday 6 December | 13:30-14:30 | Peridot 204-205

Precision Radiation Medicine: Driving Personalized Therapy

Chair: David Famorca, VP Marketing APAC & Japan, ELEKTA

- 13:30 – 14:10 > **Clinical Rationale and Treatment of Multiple Indications Using MR Guided Radiotherapy**
Dr Julia Murray, MD, Royal Marsden Hospital, London, UK
- 14:10 – 14:30 > **MOSAIQ® Plaza - connecting you to every moment of a patient's journey**
Matt Vigar, Business Marketing Director, Elekta

Visit ELEKTA at booth no 5 for more information

Varian Medical Systems

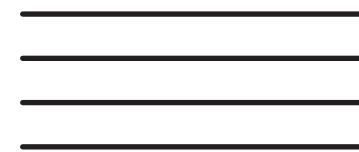
Saturday 7 December 2019 | 13:00-14:00 | Peridot 204-205

Intelligent Cancer CARE

Chair: Ms Selena Hsieh, Product Marketing Manager, Asia Pacific, Varian Medical Systems Programme

- 13:00 – 13:05 > **Welcome**
Kevin Lo DHSc, Managing Director, Southeast Asia, Korea and Hong Kong/Macau region Varian Medical Systems
- 13:05 – 13:45 > **AI-driven Adaptive Therapy**
Jeremy Todd Booth, PhD, MACPSEM, Director, Radiation Oncology Medical Physics, Northern Sydney Cancer Centre, Royal North Shore Hospital
- 13:45 – 14:00 > **A brave new world in Brachytherapy - Discover Bravos**
*Nastik Bhandari
 Brachytherapy Commercialisation Manager – APAC
 Varian Medical Systems*

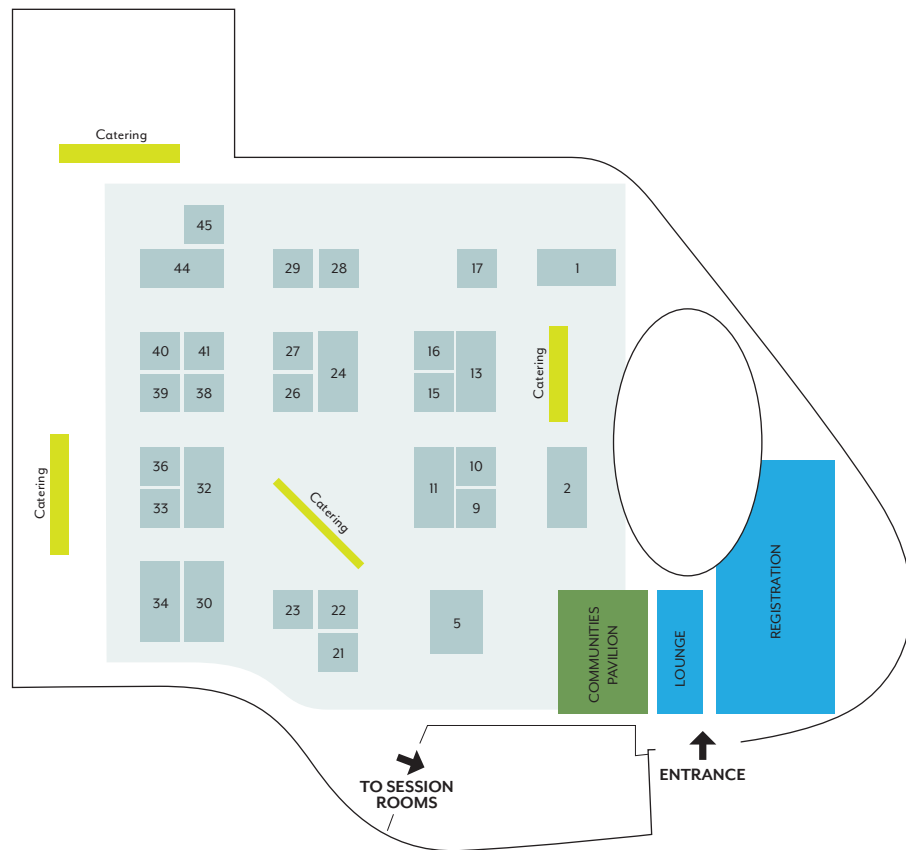
Visit VARIAN at booth no 1 for more information



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Floorplan



Exhibitors

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Exhibitors' details

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