



Phase I Exam Preparation Course June 2019 Program

| Thursday 20 June 2019 | | |
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| Time | Details | Presenter |
| 12.00 – 12.30pm | Welcome Lunch | |
| 12.30 – 12.45pm | Welcome | Carminia Lapuz |
| 12.45 – 1.30pm | Accuracy of treatment planning: immobilization, IGRT, how to manage changes in patient contour during treatment, avoidance and detection of errors (Curr ref 6.10) | Philip Vial |
| 1.30 – 2.15pm | Principles of IMRT and VMAT and advantages and disadvantages compared to other treatment techniques (Curr ref 4.9, 4.10) | Philip Vial |
| 2.15 – 2.30pm | Afternoon Tea | |
| 2.30 – 3.30pm | Brachytherapy: Clinical decision making, advantages of radionuclides in different scenarios, ICRU dose specification system and current dosage systems (Curr reg 9.1.4, 9.2.4, 9.2.5, 9.2.6) | Annette Haworth |
| 3.30 – 4.15pm | Radiation measuring devices and principles of radiation protection (Curr ref 7.1, 7.2, 11.1 – 11.6) | Ash Cullen |
| 4.15 - 5pm | PDD Masterclass | Ash Cullen Chris Lee |
| 5pm | Course Networking Cocktail Reception | |

| Friday 21 June 2019 | | |
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| Time | Details | Presenter |
| 8 – 9am | Tissue heterogeneity, irregular contours and irregular treatment fields – impact on photon and electron planning (Curr ref 4.5, 4.7, 5.5) | Jason Morton |
| 9 – 9.30am | Principles of imaging modalities for treatment planning | Jonathan Sykes |
| 9.30 – 10am | Unsealed brachytherapy sources – including radioiodine treatment | Jason Morton |
| 10 – 10.15am | Morning Tea | |
| 10.15am – 12.15pm | Combined physics practical session | Chris Lee Jonathan Sykes Jason Morton Brianna Minns Ash Cullen |
| 12.15 - 1pm | Lunch (all sessions after lunch combined with pre-exam course) | |
| 1 – 1.30pm | Anatomy for radiation oncologists | Claire Hardie Carminia Lapuz |
| 1.30 – 2.15pm | Mechanisms of cell death | Harriet Gee |
| 2.15 – 2.30pm | Afternoon Tea | |
| 2.30 – 3.15pm | Angiogenesis, metastatic cascade and tumour immunology (Curr ref 3.6, 3.7) | Harriet Gee |



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| 3.15 – 4.00pm | Normal cell structure, DNA replication, Cell cycle and its physiological controls (Curr ref 2.4, 2.7, 2.8) – radek | Radek Szmyd |
| 4 – 5pm | DNA damage and repair mechanisms (Curr ref 5.3, 5.4, 5.5, 5.7, 5.8, 5.9, 6) | Radek Szmyd |

| Saturday 22 June 2019 | | |
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| Time | Details | Presenter |
| 8 - 10am | Combined anatomy practical session | Claire Hardie Carminia Lapuz Andrew Potter Apsara Windsor Eric Hau Sean Brennan Viet Do |
| 10 – 10.30am | Morning Tea | |
| 10.30am – 11.30am | Radiation and Cancer Biology: Dose response curves and hypoxia | Eric Hau |
| 11.30am – 12.30pm | Early and late side effects of radiation therapy; Tolerance of normal tissues and retreatment | Andrew Potter |
| 12.30 – 1.30pm | Lunch | |
| 1.30 – 2.30pm | CT cross-sectional anatomy | Robin Cassumbhoy |
| 3.30 – 3.45pm | Afternoon Tea | |
| 3.45 – 4.30pm | Drug interactions with radiation therapy | Eric Hau |

| Sunday 23 June 2019 | | |
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| Time | Details | Presenter |
| 8.30 – 9.15am | Exam structure | Carminia Lapuz |
| 9.15 – 9.45am | How to answer exam questions | Carminia Lapuz Claire Hardie |
| 9.45 – 11am | Mock exam | |
| 11 – 11.15am | Morning Tea | |
| 11.15am – 12.15pm | Mock exam marking (joint session) | Carminia Lapuz Claire Hardie |
| 12.15 – 12.30pm | Wrap up and feedback | Claire Hardie Carminia Lapuz |
| 12.30pm | Lunch | |