3D Printing in Radiotherapy- Draft

Tuesday 21st May – NPL, London

Morning

09:00 – 09:25	Welcome and Introductions
	Conor McGarry and James Burnley
09:25 - 09:45	*Point-of-care 3D printing at the Royal Brisbane & Women's Hospital*
	Scott Crowe, Royal Brisbane and Women's Hospital
09:45 - 10:00	*The Introduction of 3D Printing Technologies to a Radiotherapy Physics Service at Swansea*
	Rhys Jenkins, Swansea Bay University Health Board
10:00 - 10:15	*Improving patient experience with surface scanning for a printed mould*
	Susan Barley and Ellen Dear, GenesisCare
10:15 - 10:25	*Producing Low Melting Point Alloy Masks with 3D Printing*
	John Mills, Print Easy Acrylic Shells
10:25- 10:55	**Break**

10:55 - 11:15	*3D Printed Bolus for H&N Treatments*
	Jessica Woodward, University College London Hospitals NHS Foundation Trust
11:15 - 11:30	*Clinical experience of the first 120 patients treated with 3D printing-enabled bolus at Northampton General Hospital*
	Steven Stibbs, Northampton General Hospital
11:30 - 11:55	**Lightning Session - Lessons Learned from Bolus**
11:55 - 12:25	**Interactive Session**
12:25 - 13:25	**Lunch**

IPEM Institute of Physics and Engineering in Medicine

Organised by IPEM's Radiotherapy Special Interest Group and 3D Printing in Radiotherapy Working Party

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Afternoon

13:25 -13:50	*Costs and Benefits of 3D Printing in the Clinic*
	Tanya Kairn, Queensland Health
13:50 - 14:05	*Advanced 3D-printing of static and dynamic phantoms applied in radiotherapy*
	Roua Abdulrahim, Maastricht University - **on behalf of Didier Lustermans, Maastricht University**
14:05 - 14:15	*A 3D-printed adaptable anatomical phantom for end-to-end testing of online adaptive radiotherapy for cervical cancer based on clinical patient geometry*
	Matt Jones, The Royal Surrey NHS Foundation Trust
14:15 - 14:25	*Characterization of Flexible Materials for Dynamic Phantoms in Radiotherapy*
	Roua Abdulrahim, Maastricht University
14:25 - 14:55	**Break**

14:55 - 15:15	Invited Speaker
15:15 - 15:30	*Optimisation of GYN brachytherapy by 3D printing of personalised applicators*
	Britt Haanen, Maastro Clinic
15:30 - 15.40	*The production of a bespoke 3D printed HDR skin brachytherapy applicator for the treatment of skin lesions - A case study*
	Ahmar Yaseen, Northampton General Hospital
15:40 - 16:10	**Interactive Session**
16:10 - 16:20	**Final Thoughts and Close**

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Lightning Talks

Lightning Session - Lessons Learned from Bolus
Scripting a Clinical solution for Silicone bolus 3D-printed casts in RayStation v2023B
Meagan de la Bastide, Imperial College Healthcare NHS Trust
A Large Area Chest Wall Bolus Print: Problems and Solution
John Mills, Print Easy Acrylic Shells – **on behalf of Sue Jansen van Rensburg, GenesisCare**
Printing Shielding and Bolus for Electron Radiotherapy for Skin Cancer
Frances Lavender, The Royal Marsden NHS Foundation Trust
3D Printing Bolus For Use Over and Under Head Shells In Head And Neck Planning
Tim Hosking, North Middlesex Hospital NHS Foundation Trust

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