# **3D Printing in Radiotherapy**

### Tuesday 21<sup>st</sup> 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
10.33 11.13	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







# **3D Printing in Radiotherapy**

#### Tuesday 21<sup>st</sup> May – NPL, London 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
	Noua Abdultatiiti, Waastiiciit Olliveisity
14:25 - 14:55	Break

14:55 - 15:15	3D Printing for Brachytherapy – A Clinical Perspective Amani Chowdhury, Mount Vernon Cancer Centre
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
15:40 - 16:10	Ahmar Yaseen, Northampton General Hospital  Interactive Session
16:10 - 16:20	Final Thoughts and Close





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### **3D Printing in Radiotherapy**

### Tuesday 21st May – NPL, London **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







