

Draft Agenda for WG9 Meeting at EURADOS AM 2024

Date, time: **Mon 8 April 2024 13:30 – Wed 14 June 2023 12:30**

Location: **UKHSA, Oxford, United Kingdom**

Monday, 8 April 2024		
13:30 – 15:30 WG 9 Plenary Meeting Room 6	13:30	Welcome, organisational & membership matters (Liliana Stolarczyk)
	13:45	Update from EURADOS Council (LS, Željka Knežević, Sebastian Trinkl)
	14:00	Possible grants (Pianoforte) (Marie Davidkova, Hrvoje Brkić)
	14:30	Young scientists presentations <ul style="list-style-type: none"> – Christina Stengl “In-phantom measurement of target and organs at risk doses during carbon ion radiotherapy”
	14:45	WG9.4 Fetal doses in radiotherapy (Marijke De Saint-Hubert, Hrvoje Brkić) <ul style="list-style-type: none"> – An update on the measurement campaign done in CCB (Krakow, Poland), where Tena, was treated with Intensity modulated proton therapy (IMPT) clinical plans for glioma, Hodgkin lymphoma (HL) with and without range shifter (RS/noRS) and submandibular gland cancer (neck). Thermoluminescent dosimeters (TLD), type MCP-7 and MCP-6, assessed the non-neutron and thermal neutron dose. The MiniPIX Timepix based detector allowed assessment of particle-specific energy deposition, while the BTI BD-PND bubble detectors were used as a neutron specific dosimeter. – Report on material testing for the purpose of developing suitable phantoms in the realm of out-of-field dosimetry within proton therapy applications. The utilization of various materials, such as 3D printed filaments, has been thoroughly examined through Monte Carlo simulations. These simulations assess the in-field and out-of-field characteristics of the materials in proton therapy, comparing them to reference tissues.
15:30 – 16:00	Coffee Break	
16:00 – 18:00 Cross-WG meeting Room 6	16:00	Joint meeting WG 6, 9, 10, 11, 12 High dose rate radiation
18:30 – 19:30	Welcome drink	
Tuesday, 9 April 2024		
09:00 – 10:30	09:00	WG9.3 Small field dosimetry (Hrvoje Hršak)

Tuesday, 9 April 2024		
WG 9 Plenary Meeting Room 6	09:45	WG9.2 Hadron radiotherapy (Pawel Olko) Task: Neutron dosimetry in BNCT (PO) <ul style="list-style-type: none"> – Discussion on possibility of performing experimental campaign in BNCT beams (Michal Gryzinski, PO)
10:30 – 11:00	Coffee Break	
11:00 – 12:30 WG 9 Plenary Meeting Room 6	11:00	WG9.1 Computational methods in Medical Physics (HB) & WG9.2 Hadron radiotherapy (PO) Joint Task: Protocol for combining different detectors in out-of-field dosimetry (MDSH, Olivier Van Hoey) <p>One task within WG9 involves determining out-of-field radiation doses in patients undergoing proton radiotherapy. Experiments have been performed in 5 year old anthropomorphic phantoms, with various types of passive detectors, to simulate a brain proton therapy treatment (Krakow experiment 2014). The mixed radiation field requires us to combine measurements from different detectors and to use appropriate correction factors where needed. Using Monte Carlo simulations, we have been working on a model that utilizes TLD response function and calibration coefficients to calculate the recorded signal. The work's objective is to finally use this model and propose a protocol for combining different detectors in out-of-field dosimetry for proton therapy.</p>
	11:45	WG9.1 Computational methods in Medical Physics (HB) & WG9.2 Hadron radiotherapy (PO) Joint Task: Experimental LET estimation & LET MC simulations (LS, HB, Niels Bassler) <ul style="list-style-type: none"> – Overview of results for passive detectors (up to 8 min, upon request) – MC simulation status (HB, NB) – LET measurements with active detectors (up to 8 min, upon request) – Possible future experiments (All)
12:30 – 13:30	Lunch Break	
13:30 – 14:30 WG 9 Plenary Meeting Room 6	13:30	WG9.2 Hadron radiotherapy Task: Secondary radiations for light ion beams – passive detectors (José Vedelago) <ul style="list-style-type: none"> – Preliminary results of out-of-field dose measurements with FNTDs for therapeutic ion beams (Stefan Schmidt) – Initial results from participating groups (up to 8 min, upon request) – Overview of results with a focus on passive detectors (JV)
	14:15	Action plan for WG9, End of the WG9 plenary meeting (LS, All)
14:30 – 15:30 Cross-WG meeting Room 6	Joint meeting WG9 + WG11 HIT measurements – Discussion (José Vedelago) <ul style="list-style-type: none"> – Initial results of the HIT experiment conducted with the CUN instruments (Evangelina Martínez Francés) – Initial rem counter analysis (Andrea Cirillo) – Initial results from participating groups (up to 8 min, upon request) – Overview of results for the water phantom (JV) – Overview of results for the paediatric phantom (JV) 	

Tuesday, 9 April 2024	
15:30 – 16:00	Coffee Break
16:00 – 18:00 Cross-WG meeting East	Joint meeting WG6, WG9.1 + WG12 Computational methods in Medical Physics (Hrvoje Brkić) <ul style="list-style-type: none"> – Monte Carlo simulations of doses in intervention radiology(Nicolas Arbor) – Monte Carlo simulations of radiological procedures in pregnancy (Hrvoje Brkic) – LET workshop – Monte Carlo simulations (Niels Bassler) – Monte Carlo simulations followed by HIT experimental campaign (Jose Vedelago)
19:00 – 20:00	Early Career Event

Wednesday, 10 April 2023		
09:00 – 10:30 Parallel Meetings	Joint Meeting WG6, WG9 and WG11 High energy data (Michael Petit) Room 10	Editorial Meeting (closed) M. Davidkova – audit in PT Room 12
		Editorial Meeting (closed) M. Davidkova – Mevion experiment (passive detectors) Room 12
10:30 – 11:00	Coffee Break	
11:00 – 11:45 Parallel Meetings	Joint meeting WG6 + WG9 + WG11 Neutron Spectra unfolding Room 15	Editorial Meeting (closed) Room 12 To be decided
11:45 – 12:30 Room 12	Editorial Meeting (closed) José Vedelago - Water tank: room mapping and in-phantom measurements	
12:30 – 13:30	Lunch Break	
13:30 – 18:00	EURADOS General assembly	
20:00	EURADOS Conference Dinner	