

The Royal College of Radiologists
RCR-Cyclotron Trust Visiting Fellowships 2019/20 (Clinical Oncology)

POST-VISIT REPORT

PLEASE NOTE: This report must be completed and emailed to the RCR within 2 months of the end of your visit.

1. Name of Visiting Fellow	Dr Shanmugasundaram Ramkumar	
2. Name of joint Visiting Fellow (if applicable)	n/a	
3. Institution(s) of Visiting Fellow(s)	University Hospital Southampton NHS Foundation Trust	
4. Name of Host(s)	Dr Ester Orlandi -CNAO, Pavia, Italy	
5. Institution(s) of host(s)	CNAO	
6. Expenses claimed	£1964.11	
7. Visit Dates (ACTUAL)	a. Start Date: 25/07/22	b. End Date: 29/07/22
8. 2nd visit dates (if applicable)	a. Start date	b. End Date
9. Aims of the visit		
<ul style="list-style-type: none"> a) Understand the characteristics & clinical applications of Carbon Ion therapy (CIT) in treating radioresistant Skull base tumours, Head and Neck tumours, Sarcomas and recurrent cancers. b) Gain first hand working knowledge of Carbon Ion therapy treatment and compare effectiveness of CIT with PBT and IMRT. c) Clinical Indications for consideration of CIT treatment d) Management of cancer patients during CIT treatment and the immediate post treatment period e) 5. Exposure to clinical data on efficacy of CIT at CNAO, Pavia. 		
10. Activities undertaken		
Clinical Observer at CNAO under supervision of Dr.Ester Orlandi and attended: <ul style="list-style-type: none"> i. New patient Consultations with CNAO clinicians 		

- ii. Tumour Board meetings with multidisciplinary team discussing appropriateness for CIT and PBT
- iii. Review of on-treatment patients receiving proton therapy and CIT.
- iv. Review of CIT treatment plan evaluation with Oncologists and Physicists.
- v. Radiotherapy plan comparisons of CIT and PBT plans.
- vi. Onset verifications of CIT treatment and observed treatment set up.
- vii. Review of CIT planning process for complex radioresistant cancers and recurrent chordomas, sarcomas and H&N cancers.
- viii. Experienced the whole patient pathway (consult, immobilisation, planning, verification, on-treat review).

11. Benefits of the visit (short term)

- i. Practical knowledge of physics on CIT and advantages over conventional RT and limitations.
- ii. Dosimetric challenges of CIT, 2 phase plans, CIT-PBT plans
- iii. Better understanding of the referral indications for CIT
- iv. Management of cancer patients during CIT treatment.
- v. Exposure in the wider clinical applications of CIT & proton therapy particularly for re-irradiation.
- vi. Personal experience of a patient pathway for CIT.

12a. Envisaged benefits of the visit longer term (your own practice)

- i. Well informed Clinical Oncologist on benefits of CIT and aid in appropriate patient selection.
- ii. Allow for a better discussion with patients and carers the benefits & limitations of CIT therapy and guide patients with radioresistant cancers and complex recurrent cancers.
- iii. Greater awareness of an additional treatment modality (CIT) for a group of cancer patient with radioresistant cancers and recurrent cancers who had previous radiotherapy.

12b. Envisaged benefits to the wider group (dissemination to others in your centre/clinical oncology community/multiprofessional team)

- i. 1. Disseminate knowledge gained to consultant colleagues and trainees in Wessex region through educational sessions and create awareness of CIT.
- ii. 2. Potential referral for CIT for recurrent Chordomas, non-squamous H&N cancers and for complex re-irradiation in H&N cancer patients

13. Please outline any problems you encountered before, during or after your visit

I had to organise my own timetable as CNAO team was a bit lax in scheduling my Fellowship despite advance notice.

14. Any additional comments

None

15. Do you have any 'top tips' that you would like to share with prospective visiting fellows?

Learn some Italian!

Signed:



Dr Shanmugasundaram Ramkumar

Date: 09/08/2022

Report approved by:

Clinical Oncology Professional Support and Standards Board

Date:

27 October 2022

Please return this form to Mrs Emma Burgum, Professional Support and Standards Administrator at:
emma_burgum@rcr.ac.uk