



The Royal College of Radiologists
RCR-Cyclotron Trust Visiting Fellowships 2016/17 (Clinical Oncology)

POST-VISIT REPORT

1. Name of Visiting Fellow	Dr Tarun Durga	
2. Name of joint Visiting Fellow (if applicable)	-	
3. Institution(s) of Visiting Fellow(s)	Royal Marsden Hospital	
4. Name of Host(s)	Dr. D Indelicato and Team	
5. Institution(s) of host(s)	University of Florida ,Proton center,Jacksonville ,Florida ,USA	
6. Expenses claimed	£1820.92	
7. Visit Dates (ACTUAL)	a. Start Date:10TH APRIL 17	b. End Date :22ND April 2017
8. 2nd visit dates (if applicable)	a. Start date	b. End Date
9. Aims of the visit	<ol style="list-style-type: none"> 1. Greater understanding of appropriate use of protons including benefits and limitations (decision making within clinical and tumour board settings). 2. I am currently working in Pediatric & TYA (Teenage and Young Adult) firm. It will be invaluable experience to follow through patients sent from my centre for treatment through NHS overseas programme and be involved in the treatment planning, observe consultations and treatment delivery and share their experience. 3. Comparisons of proton plans vs. IMRT plans and difficulties/ uncertainties around both and dosimetric constraints. 4. Discuss issues of uncertainty in stopping position, BED at the end of Bragg Peak tail. 5. Awareness of acute/late toxicity in patients treated with proton therapy. 6. Understanding of surface doses and skin reactions. 7. Develop an understanding of on-going and upcoming clinical trials and the rationale for these 8. On-treatment imaging techniques / frequency. 9. Basis for margins used. 10. Dose calculations for retreatment, particularly for patients (treated with primary proton therapy) presenting with relapse. 11. Greater understanding of appropriate use of protons including benefits and limitations (decision making within clinical and tumour board settings). 12. I am currently working in Pediatric & TYA (Teenage and Young Adult) firm. It will be invaluable experience to follow through patients sent from my centre for treatment through NHS overseas programme and be involved in the treatment planning, observe consultations and treatment delivery and share their experience. 13. 	

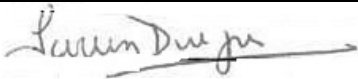
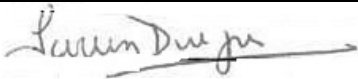
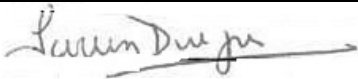
14. Comparisons of proton plans vs. IMRT plans and difficulties/ uncertainties around both and dosimetric constraints.
15. Discuss issues of uncertainty in stopping position, BED at the end of Bragg Peak tail.
16. Awareness of acute/late toxicity in patients treated with proton therapy.
17. Understanding of surface doses and skin reactions.
18. Develop an understanding of on-going and upcoming clinical trials and the rationale for these
19. On-treatment imaging techniques / frequency.
20. Basis for margins used.
21. Dose calculations for retreatment, particularly for patients (treated with primary proton therapy) presenting with relapse.
22. Comparisons of proton plans vs. IMRT plans and difficulties/ uncertainties around both and dosimetric constraints.
23. Establish links with the physicians to enhance further collaborations and develop research projects across sites.
24. Plan to share and disseminate the knowledge to colleagues gained through departmental and grand round teaching sessions.
25. Gaining experience of different healthcare setup

10. Activities undertaken

- 1) Observed consults and follow-ups in Paediatric, lung, breast and Head & Neck Oncology with Drs. Indelicato, Dr Bradley, Dr Rotondo and Dr. Dagan
- 2) Gained insight into improvement in planning MRI Imaging and immobilization techniques at UFPTI . Dr. Huh shared his vast experience with MRIs for treatment planning
- 3) Participated in Resident Teaching Teleconference, Mock Oral Boards Review.
- 4) Gave a lecture and shared Royal Marsden Hospital experience on Hypofractionation in breast cancer including current ongoing trials
- 5) Attended weekly
 - Pediatric skull base and neuro-oncology conference
 - Adult skull base and neuro-oncology conference
- 6) Observed proton treatment planning in different tumor sites
- 7) Observed Immobilization techniques, CT simulation , Treatment Planning , treatment delivery including verification and correction.
- 8) Attended Pediatric working conference, Child support services working sessions :- "Introduction to Social Services and Child Life" and lectures on Technical Delivery of Proton Therapy
- 9) Observed the current passive scatter unit and the new upcoming pencil beam unit work.
- 10) Got an understanding of benefits and limitations of the two proton setups.
- 11) Understood the concept of patching in the double scatter proton planning.
- 12) Saw the comparison IMRT plans for the proton patient since all proton patients had back up IMRT plans .It gave insight into the benefits of protons and its limitations.

11. Benefits of the visit (short term)

1. Ability to identify Proton referrals
2. Will improve my ability to provide better clinical care to my patients being followed up post proton therapy treatment
3. Experience of US practice gave me insight into strength and weaknesses of our institution practice .It has given me ideas to initiate service improvement projects.
4. The visit motivated me to take up research positions in Particle therapy in future.

12a Envisaged benefits of the visit longer term (your own practice)			
<ol style="list-style-type: none"> 1. Improved my understanding of the intricacies of Particle therapy, its applications and limitations. This will facilitate informed discussion of Proton therapy with my patients and their families. 2. Has helped in building bridges for future collaborations for research 			
12b. Envisaged benefits to the wider group (dissemination to others in your centre/clinical oncology community/multiprofessional team)			
<ol style="list-style-type: none"> 1. Facilitate referrals and streamline patient pathways to proton centres. 2. Presentation of learning outcomes from visit in the departmental teaching sessions 3. Enablement of informed discussion in MDT on patients for Proton therapy. 4. Established Links and bridges with University of Florida Proton centre for enabling future collaboration in research. 			
13. Please outline any problems you encountered before, during or after your visit			
NONE			
14. Any additional comments			
None			
15. Do you have any 'top tips' that you would like to share with prospective visiting fellows?			
Rent a car in US .Public transport is scanty including Taxis in Jacksonville.			
<table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Signed: </td> <td style="width: 40%;">Date: 27.09.2017</td> </tr> </table>		Signed: 	Date: 27.09.2017
Signed: 	Date: 27.09.2017		
Report approved by:	Clinical Oncology Professional Support and Standards Board		
Date	06.10.2017		

Please return this form to Miss Irina Beleca, Professional Standards Administrator at: irina_beleca@rcr.ac.uk