MARCH 2021 VOL. 2

ROECSG REPORT

RADIATION ONCOLOGY EDUCATION COLLABORATIVE STUDY GROUP

The latest news and updates from the Radiation Oncology Education Collaborative Study Group (ROECSG)

IN THIS ISSUE

Announcements

Last chance to submit an abstract to the Fourth Annual ROECSG Spring Symposium!! Learn more about this conference and how to submit an abstract at: roecsg.org/events/symposium2021

DEADLINE FOR SUBMISSION = **March 15th, 2021**

ROECSG is excited to announce an exciting clinical educational research fellowship opportunity for medical students, with flexible timing from 10-12 months. **Read more** about this opportunity at: https://www.mskcc.org/departments/radiation-oncology/residency/medical-student-electives/medical-student-clinical-research-fellowship

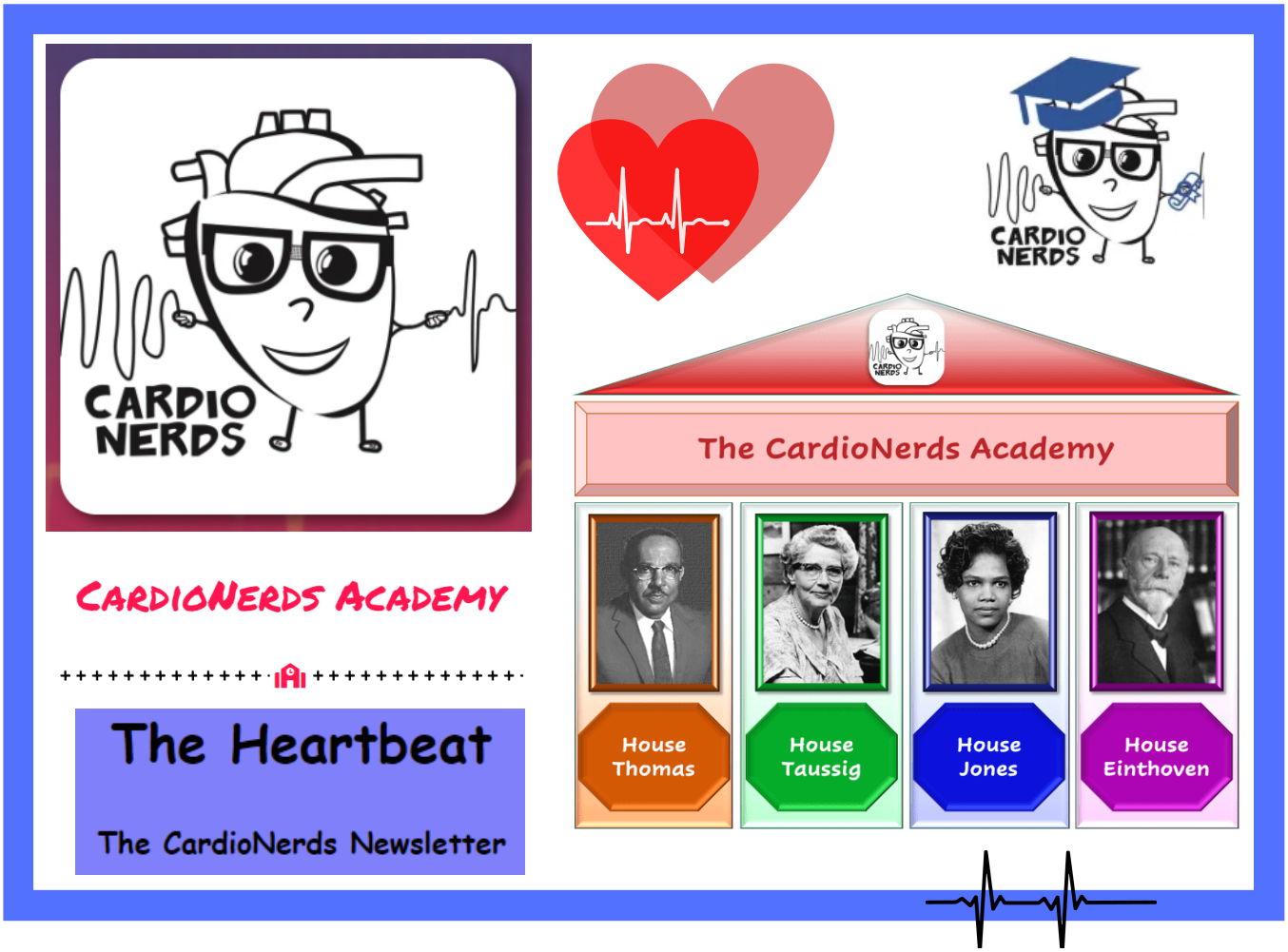
This medical student opportunity is available through the **Memorial Sloan Kettering Cancer Center** and provides a stipend and funding opportunities for presenting research. Feel free to visit econtour.org/about for **more information** or contact support@econtour.org.

Spotlight on #MedEd

Other Medical Specialties are Using Digital Media for #MedEd Learning

There are a number of unique medical education initiatives in other specialties, and we will be devoting the Spotlight section of the ROECSG Report each quarter to highlight the work going on in #MedEd outside of the field of radiation oncology.

This time, the spotlight is on the awesome work by the CardioNerds (cardionerds.com). Their innovative MedEd platform started out as a podcast and has evolved into a whole host of MedEd tools for cardiology educators, including journal clubs, Tweetorials, and a really cool (dare I say *nerdy*) Academy (www.cardionerds.com/academy) that was founded with the goal to democratize cardiovascular education and create digital content for asynchronous MedEd.



Opportunities for Getting Involved

ROECSG encourages active participation in our collaborative study group. We are in the process of establishing committees to allow for even more engagement from our members. If you are interested in learning more about opportunities for getting involved with ROECSG and joining one of our new committees, please feel free to contact us anytime at: https://roecsg.org/contact. Make sure to also follow us on Twitter (**@roecsg**)! Click ->

@roecsg

Ongoing medical education initiatives

ROECSG members are involved in multiple ongoing medical education initiatives. The full list of ongoing projects can be accessed at: https://roecsg.org/current-initatives

- Development of a structured medical student clerkship curriculum
- Introductory Radiation Oncology Course (IROC) for Residents
- Simulation-based education for radiation oncology contouring
- Residents-as-Teachers (RAT) in Radiation Oncology
- Self-directed treatment planning/dosimetry training for the clinical radiation oncologist
- We are also collaborating with eContour.org to develop novel contouring educational tools for radiation oncology
- ROECSG Core Curriculum: https://roecsg.org/corecurriculum

Recent #RadOnc #MedEd Publications

Here is a contemporaneous list of recent RadOnc MedEd publications. Lots of exciting work in this space! If you would like your publication featured in the next ROECSG Report, please email the citation to Anna Laucis at: anna.laucis@gmail.com. Brachy articles are in **blue**, med student in **orange**, simulation-based in **pink**, global in **green**, workforce in **purple**, and the rest in **black**.

- **1.** Harnett et al. **Accelerated Education Program in Radiation Medicine: International Learner Perceptions of Experiences, Outcomes, and Impact.** *IJROBP* 2021; 109(3): 656-60. doi: https://doi.org/10.1016/j.ijrobp.2020.09.051

- **2.** Schultz et al. **Qualitative Study of Interprofessional Collaboration in Radiation Oncology Clinics: Is There a Need for Further Education?** *IJROBP* 2021; 109(3): 661-69. doi: https://doi.org/10.1016/j.ijrobp.2020.09.056

- **3.** Prajogi et al. **Role of the IAEA in education and training of radiotherapy professionals in Asia Pacific.** *J Med Imag Radiat Oncol* 2021; doi: 10.1111/1754-9485.13143

- **4.** Rallis et al. **Inspiring the future generation of oncologists: a UK-wide study of medical students' views towards oncology.** *BMC Medical Education* 2021; 21:82. doi: https://doi.org/10.1186/s12909-021-02506-0

- **5.** Arifin et al. **A Scoping Review of Radiation Oncology Educational and Career-Planning Interventions in Undergraduate Medical Education.** *Curr Oncol* 2021; 28: 740-49. doi: https://doi.org/10.3390/curroncol28010072

- **6.** Li et al. **Frameworks for Radiation Oncology Global Health Initiatives in US Residency Programs.** *JCO Global Oncol* 2021; 7: 233-41. doi: 10.1200/GO.20.00315

Recent #RadOnc #MedEd Publications

- 7. Arden et al. **A Personalized Patient Teaching Session at the Time of Radiation Simulation May Improve Patient Satisfaction Scores.** *Adv Radiat Oncol* 2021; doi: https://doi.org/10.1016/j.adro.2020.09.010

- **8.** Thomas et al. **An Analysis of the Residents' Research, Education, and Wellness Resources in Radiation Oncology Residency Programs in the United States.** *Adv Radiat Oncol* 2020; doi: https://doi.org/10.1016/j.adro.2020.08.005

- **9.** Moskalenko et al. **Assessment of Radiation Oncology Nurse Education in the United States.** IJROBP 2021; doi: https://doi.org/10.1016/j.ijrobp.2021.01.031

- **10.** Mody et al. **Gender Differences in Work-Family Conflict Experiences of Faculty in Academic Medicine.** *J Gen Int Med* 2021; doi: https://doi.org/10.1007/s11606-020-06559-7

- **11.** Patel et al. **Strategic Training in Transdisciplinary Radiation Science for the 21st Century (STARS21): 15-Year Evaluation of an Innovative Research Training Program.** IJROBP 2021; doi: https://doi.org/10.1016/j.ijrobp.2021.01.010

- 12. Kahn et al. **Transitioning Roles from Residency to Attending Physician in Radiation Oncology.** *J Cancer Ed* 2021; doi: https://doi.org/10.1007/s13187-020-01936-6

- 13. Salama et al. **Fostering Radiation Oncology Physician Scientist Trainees Within a Diverse Workforce: The Radiation Oncology Research Scholar Track.** IJROBP 2021; doi: https://doi.org/10.1016/j.ijrobp.2020.12.050

- **14.** Marsiglio et al. **Mentorship Initiatives in Radiation Oncology: A Scoping Review of the Literature.** IJROBP 2021; doi: https://doi.org/10.1016/j.ijrobp.2020.12.049

- **15.** Potters et al. **SCAROP Letter to Academic Chairs: Racial Justice and Health Equity.** IJROBP 2020; doi: https://doi.org/10.1016/j.ijrobp.2020.07.2314

- 16. Lewis et al. **Radiotherapy Planning and Peer Review in Sub-Saharan Africa: A Needs Assessment and Feasibility Study of Cloud-Based Technology to Enable Remote Peer Review and Training.** *JCO Global Oncol* 2020; doi: https://doi.org/10.1200/GO.20.00188

- 17. Mailhot Vega et al. **Cross-Sectional International Survey to Determine the Educational Interests of Spanish-Speaking Latin American Radiation Oncologists.** *JCO Global Oncol* 2021; 7: 29-34. doi: https://doi.org/10.1200/GO.20.00330

Recent #RadOnc #MedEd Publications

- **18.** Nelson et al. **The Radiation Oncology Education Collaborative Study Group 2020 Spring Symposium: Is Virtual the New Reality?** *IJROBP* 2020; doi: 10.1016/j.ijrobp.2020.12.026

- **19.** James et al. **Faculty of Radiation Oncology 2018 workforce census: the status of the radiation oncology workforce in New Zealand.** *N Z Med J* 2020; 133(1527):15-25. PMID: 33332325. Available at: https://pubmed.ncbi.nlm.nih.gov/33332325

- **20.** Gondhowiardjo et al. **Regional collaboration to improve quality of radiation therapy in Asia.** *J Med Imag Radiat Oncol* 2020; doi: https://doi.org/10.1111/1754-9485.13133

- **21.** Kumar et al. **Association Between Patient Education Videos and Knowledge of Radiation Treatment.** *IJROBP* 2020; doi: https://doi.org/10.1016/j.ijrobp.2020.11.069

- **22.** Benstead et al. **Clinical oncology module for the ESTRO core curriculum.** *Radiother Oncol* 2021; 156: 19-22. doi: https://doi.org/10.1016/j.radonc.2020.11.029

- **23.** Palmaria et al. **Learning From Cancer Survivors as Standardized Patients: Radiation Therapy Students' Perspective.** *J Med Imag Radiat Sci* 2020; 51: S78-83. doi: https://doi.org/10.1016/j.jmir.2020.09.011

- **24.** Wang & Rallis. **Enhancing the Pre-Clerkship Residency Exploration Program (PREP): Medical Students' Suggestions.** *J Cancer Ed* 2020; doi: 10.1007/s13187-020-01886-z

- **25.** Singer et al. **Simulation-based graduate medical education in MR-guided brachytherapy for cervical cancer.** *Brachytherapy* 2020; 19(6): 725-31. doi: 10.1016/j.brachy.2020.09.014

- **26.** Mauro et al. **Prospective validation of a core curriculum progress assimilation instrument for radiation oncology residentship.** *Rep Pract Oncol Radiother* 2020; 25(6): 951-55. doi: https://doi.org/10.1016/j.rpor.2020.09.003

- **27.** Frank et al. **The American Brachytherapy Society prostate brachytherapy LDR/HDR simulation workshops: Hands-on, step-by-step training in the process of quality assurance.** *Brachytherapy* 2020; 19(6): 787-93. doi: https://doi.org/10.1016/j.brachy.2020.10.001

- **28.** Donnelly et al. **Development of a gynecologic brachytherapy curriculum and simulation modules to improve radiation oncology trainees' skills and confidence.** *Brachytherapy* 2020; 19(6): 732-37. doi: https://doi.org/10.1016/j.brachy.2020.09.016

- **29.** Dapper et al. **Radiation oncology as part of medical education - current status and possible digital future prospects.** *Strahlenther Onkol* 2020; doi: 10.1007/s00066-020-01712-x

Recent #RadOnc #MedEd Publications

- **30.** Kessel et al. **A Five-Year report on the conception and establishment of the MSc Radiation Biology at the Technical University of Munich.** *Int J Radiat Biol* 2021; 97(2): 256-64. doi: https://doi.org/10.1080/09553002.2020.1807645

- **31.** Rallis et al. **Mentoring Medical Students Towards Oncology: Results from a Pilot Multi-institutional Mentorship Programme.** *J Cancer Ed* 2020; doi: https://doi.org/10.1007/s13187-020-01919-7

- **32.** Walls et al. **A Qualitative Assessment of Radiotherapy Training at a UK Regional Cancer Centre.** *Clin Oncol* 2020; doi: https://doi.org/10.1016/j.clon.2020.10.022

- **33.** Chowdhary et al. **Radiation Oncology Application and Match Patterns, Pre- and Post-SOAP (Supplemental Offer and Acceptance Program) from 2012 to 2020.** *Pract Radiat Oncol* 2020; 11(2): P152-3. doi: https://doi.org/10.1016/j.prro.2020.05.009

- **34.** Williams et al. **Simulation-based learning for enhanced gynecologic brachytherapy training among radiation oncology residents.** *Brachytherapy* 2021; 20(1): 128-35. doi: https://doi.org/10.1016/j.brachy.2020.08.022

- **35.** Hatcher et al. **Impact of High-Dose-Rate Brachytherapy Training via Telehealth in Low- and Middle-Income Countries.** *JCO Global Oncol* 2020; doi: 10.1200/GO.20.00302

- **36.** Bates et al. **Geographic Distribution of Radiation Oncologists in the United States.** *Pract Radiat Oncol* 2020; 10(6): E436-43. doi: https://doi.org/10.1016/j.prro.2020.04.008

- **37.** Padilla et al. **Image Registration and Verification Workshop: A Pilot Study.** *Prac Radiat Oncol* 2020; 10(6): E461-65. doi: https://doi.org/10.1016/j.prro.2019.12.002

- **38.** Thomas et al. **Cross-Sectional Gender Analysis of US Radiation Oncology Residency Programs in 2019: More Than a Pipeline Issue?** *Adv Radiat Oncol* 2020; 5: 1099-1103. doi: https://doi.org/10.1016/j.adro.2020.07.008

- **39.** Perni et al. **A Paradigm Shift in Radiation Oncology Training.** *Adv Radiat Oncol* 2020; doi: https://doi.org/10.1016/j.adro.2020.10.012

- **40.** Chapman et al. **Linguistic Biases in Letters of Recommendation for Radiation Oncology Residency Applicants from 2015 to 2019.** *J Cancer Ed* 2020; doi: 10.1007/s13187-020-01907-x

Recent #RadOnc #MedEd Publications

- **41.** O'steen et al. **A Prospective Randomized Trial of the Influence of Music on Anxiety in Patients Starting Radiation Therapy for Cancer.** *IJROBP* 2020; doi: https://doi.org/10.1016/j.ijrobp.2020.09.048

- **42.** Rowley et al. **Radiation Oncology Resident Research Productivity in the United States: 2015 to 2019.** *IJROBP* 2020; doi: https://doi.org/10.1016/j.ijrobp.2020.10.020

- **43.** Wu et al. **The Declining Residency Applicant Pool: A Multi-Institutional Medical Student Survey to Identify Precipitating Factors.** *Adv Radiat Oncol* 2020; doi: https://doi.org/10.1016/j.adro.2020.10.010

- **44.** Balushi et al. **The readability of online Canadian radiotherapy patient educational materials.** *J Med Imag Radiat Sci* 2020; 51:617-23. doi: 10.1016/j.jmir.2020.09.007

- **45.** Gutkin et al. **Telemedicine in Radiation Oncology: Is It Here to Stay? Impacts on Patient Care and Resident Education.** *IJROBP* 2020; 108(2): 416-20. doi: https://doi.org/10.1016/j.ijrobp.2020.06.047

- **46.** Goodman et al. **Modernization of Board Certification in Radiation Oncology: Opportunities Following COVID-19.** *IJROBP* 2020; 108(2): 458-61. doi: https://doi.org/10.1016/j.ijrobp.2020.06.039

- **47.** Dooley et al. **Opportunities to Improve Radiation Oncology Medical Education in the Post-Pandemic Era.** *IJROBP* 108(2): 455-57. doi: https://doi.org/10.1016/j.ijrobp.2020.06.038

- **48.** Giuliani et al. **Propelling a New Era of Patient Education into Practice - Cancer Care Post-COVID-19.** *IJROBP* 2020; 108(2): 404-06. doi: 10.1016/j.ijrobp.2020.05.036

- **49.** Kamran et al. **No Talent Left Behind: A Silver Lining for Diversity in Radiation Oncology in the Post-Coronavirus Disease 2019 (COVID-19) Era.** *IJROBP* 2020; 108(2): 472-74. doi: https://doi.org/10.1016/j.ijrobp.2020.05.055

- **50.** Kavanagh & Doke. **The Virtual Visiting Professor: A Step Toward a Parasocial Common Curriculum?** *IJROBP* 2020; 108(2): 466-69. doi: 10.1016/j.ijrobp.2020.06.045

- **51.** Paulino et al. **Training and education of pediatric radiation oncologists: A survey from the 2019 Pediatric Radiation Oncology Society meeting.** *Pediat Blood Cancer* 2020; 67(10): e28619. doi: https://doi.org/10.1002/pbc.28619

Recent #RadOnc #MedEd Publications

- **52.** Stecklein et al. **Radiation Sciences Education in Africa: An Assessment of Current Training Practices and Evaluation of a High-Yield Course in Radiation Biology and Radiation Physics.** *JCO Global Oncol* 2020; 6: 1631-38. doi: 10.1200/GO.20.00350

- **53.** Duma & Morales. **Oncology training in Latin America: are we ready for 2040?** *Lancet Oncol* 2020; 21(10): 1267-68. doi: https://doi.org/10.1016/S1470-2045(20)30158-3

- **54.** Brandan & Rodríguez-Laguna. **Medical physics graduate education in Mexico and its relation to the advances in radiation oncology.** *Rep Pract Oncol Radiother* 2020; 25(5): 846-850. doi: https://doi.org/10.1016/j.rpor.2020.06.012

- **55.** Sim et al. **Novel MR-Guided Radiotherapy Elective Rotation for Radiation Oncology Trainees.** *Cureus* 2020; doi: https://doi.org/10.7759/cureus.10706

- **56.** Wang et al. **Virtual Reality-Based Education for Patients Undergoing Radiation Therapy.** *J Cancer Ed* 2020; doi: https://doi.org/10.1007/s13187-020-01870-7

- **57.** Franco et al. **Improving Diversity and Inclusion in the Post-COVID Era through a Radiation Oncology Intensive Shadowing Experience (RISE).** *Adv Radiat Oncol* 2020; doi: https://doi.org/10.1016/j.adro.2020.09.006

- **58.** Kundu et al. **Missing the Near Miss: Recognizing Valuable Learning Opportunities in Radiation Oncology.** *Pract Radiat Oncol* 2020; doi: 10.1016/j.prro.2020.09.007

- **59.** Jung et al. **Resilience vs. Vulnerability: Psychological Safety and Reporting of Near Misses with Varying Proximity to Harm in Radiation Oncology.** *The Joint Commission Journal on Quality and Patient Safety* 2020; 47(1): 15-22. doi: 10.1016/j.jcjq.2020.09.005

- **60.** Schofield et al. **A nurse- and peer-led psycho-educational intervention to support women with gynaecological cancers receiving curative radiotherapy: The PeNTAGOn randomized controlled trial - ANZGOG 1102.** *Gyn Oncol* 2020; 159(3): 785-93. doi: https://doi.org/10.1016/j.ygyno.2020.09.016

- **61.** Fung et al. **US Radiation Oncologists (Re)Defined: An American Society for Radiation Oncology Scope of Practice Study.** IJROBP 2020; doi: 10.1016/j.ijrobp.2020.09.029

- **62.** Mesko et al. **Development, implementation, and outcomes of a simulation-based medical education (SBME) prostate brachytherapy workshop for radiation oncology residents.** *Brachytherapy* 2020; 19(6): 738-45. doi: 10.1016/j.brachy.2020.08.009

Recent #RadOnc #MedEd Publications

- **63.** Adapa et al. **Augmented reality in patient education and health literacy: a scoping review protocol.** *BMJ Open* 2020; 10:e038416. doi: 10.1136/bmjopen-2020-038416

- **64.** Holt et al. **Improving the Pediatric Patient Experience During Radiation Therapy - A Children's Oncology Group Study.** *IJROBP* 2020; doi: 10.1016/j.ijrobp.2020.09.002

- **65.** Erickson et al. **The ABS brachytherapy schools.** *Brachytherapy* 2020; 19(6): 820-26. doi: https://doi.org/10.1016/j.brachy.2020.06.004

- **66.** Wang et al. **Digesting the Contents: an Analysis of Online Colorectal Cancer Education Websites.** *J Cancer Ed* 2020; doi: https://doi.org/10.1007/s13187-020-01864-5

- **67.** Everett et al. **Students' Perspectives and Concerns for the 2020-2021 Radiation Oncology Interview Season.** *Adv Radiat Oncol* 2020; doi: 10.1016/j.adro.2020.08.011

- **68.** Gutiontov et al. **Informed Consent in Radiation Oncology.** *IJROBP* 2020; 109(1): 29-35. doi: https://doi.org/10.1016/j.ijrobp.2020.08.064

- **69.** Liska et al. **A patient's perspective: Bridging the transition following radiation therapy for patients with breast cancer.** *J Med Imag Radiat Sci* 2020; doi: 10.1016/j.jmir.2020.08.008

- **70.** Campelo et al. **Multimaterial three-dimensional printing in brachytherapy: Prototyping teaching tools for interstitial and intracavitary procedures in cervical cancers.** *Brachytherapy* 2020; 19(6): 767-76. doi: https://doi.org/10.1016/j.brachy.2020.07.013

- **71.** Goodman et al. **Evaluation of a 3D-Printed-Head Simulation Technique for Teaching Flexible Nasopharyngoscopy to Radiation Oncology Residents.** IJROBP 2020; doi: https://doi.org/10.1016/j.ijrobp.2020.08.063

- **72.** Chowdhary et al. **Radiation Oncology Resident Quality by National Resident Matching Program Metrics from 2007 to 2018.** IJROBP 2020; doi: 10.1016/j.ijrobp.2020.08.062

- **73.** Shahhat et al. **Do Coordinated Knowledge Translation Campaigns Persuade Radiation Oncologists to Use Single-Fraction Radiation Therapy Compared With Multiple-Fraction Radiation Therapy for Bone Metastases?** IJROBP 2020; doi: 10.1016/j.ijrobp.2020.08.056