

## PAPERS PRESENTED BY DR. ARUN CHOUGULE IN NATIONAL & INTERNATIONAL CONFERENCES

1. "Adaptive Radiotherapy- **Invited Talk** Medical college, Madurai **7-9 Jan. 2015**
2. "Challenges faced by EC in present regulatory environment" **Invited talk.** Current Regulatory Requirements for Members of Institutional Ethics Committee, SMS Hospital, Jaipur- **16-17 January, 2015**
3. "Radiation Hazards & Safety in the field of Radiation Facility" **Invited talk**, II<sup>nd</sup> Workshop and Training Programme on QA & QC in Diagnostic Radiology, SMS Hospital, Jaipur **24 & 25<sup>th</sup> April – 2015**
4. "AERB Regulations and Requirements" **Invited talk**, II<sup>nd</sup> Workshop and Training Programme on QA & QC in Diagnostic Radiology, SMS Hospital, Jaipur **24<sup>th</sup> & 25<sup>th</sup> April – 2015**
5. "Mobile tower radiation myths & facts" **Invited Talks**, Workshop on "Mobile Tower Radiation & Telephony" Director Medical Education & Health, Jaipur, **11 Sep. 2015**
6. "Radiobiology of Radiation Protection & Radiotherapy" **Invited Talk**, AMPI-NC Seminar on Advance in Medical Physics for Radiodiagnosis & Radiotherapy, Indore, **12 Sep. 2015.**
7. "Cancer Breast & Cervix incidence preventive treatment" **Invited Talk**, National Conference on Reproductive Health Challenges: Issues and Remedies, IIS University, Jaipur, **13<sup>th</sup> Sep. 2015**
8. "Radiobiological basics & Physical Parameters for Hypofractionated Radiotherapy" **Invited Talk**, 7<sup>th</sup> Bi-Annual Conference of Rajasthan Chapter of Association of Radiation Oncologist India "RAJAROICON-2015", GBM Memorial Hospital, Udaipur, **19<sup>th</sup>-20<sup>th</sup> Dec. 2015.**
9. "Quantitative analysis of forward and inverse intensity modulated therapy plans using physical indices for cancer cervix" Annual Conference of Association of Medical Physicists of India-AMPICON-2015, 20-22 Nov. 2015
10. "Evaluation of corneal doses by OSLD in cancer patients of head and neck region treated by EBRT" Annual Conference of Association of Medical Physicists of India-AMPICON-2015, **20-22 Nov. 2015**
11. "Least squares based curve fitting ac A method to estimate the equivalent square concept in linear accelerator" Annual Conference of Association of Medical Physicists of India-AMPICON-2015, **20-22 Nov. 2015**
12. "Configuration of novel Telecobalt machine Bhabhatron II TAW in Eclipse treatment planning system" Annual Conference of Association of Medical Physicists of India-AMPICON-2015, **20-22 Nov. 2015**
13. **Jain GK, Chougule A**, "Study of Dosimetric Characteristics of a commercial OSL system". 36<sup>th</sup> Annual Conference of Association of Medical Physics of India, AMPICON-2015, Regional Cancer Center, Thiruvananthapuram, **2015 Nov 20-22**
14. **Athiyaman M., Arun Chougule**, "Least squares based curve fitting – A method to estimate the equivalent square concept in Linear Accelerator" AMPICON-2015, Trivendrum, **Nov.2015**
15. **Hemalatha A., Arun Chougule**, "Radiation induced cancer risk estimation for CLB in 3DCRT of post mastectomy cancer patients" AMPICON-NC-2015, **Nov. 2015**
16. "Study of Dosimetric Characteristics of a commercial OSLD system" ICTR-PHE, Geneva, Switzerland, **15-19 Feb. 2016**
17. **Jain GK, Chougule A**, "Dosimetric characterization of commercial OSL nanoDot for Diagnostic energy range use - A care should be taken for use" Annual Conference of Association of Medical Physicists of India, (Northern Chapter) AMPINC-CON 2016, BHU, Varanasi. **2016 Feb 20-21**
18. **Athiyaman M., Arun Chougule**, "Dosimetric evaluation of irregular fields generated by Eclipse TPS" **February 2016**
19. "Medical Application of OSLD" **Invited Talk**, National Conference for Association of Medical Physicist of India – Western Chapter 2016(AMPI-WC) Satara, **19<sup>th</sup>-20<sup>th</sup> March 2016**
20. "Radiobiology of Radiotherapy" CETRIT-2016 Association of ARTTI-NC, SMS Medical College & Hospital, Jaipur, **2<sup>nd</sup> April 2016**
21. **Jain GK, Chougule A.**, "Patient specific Quality Assurance (QA) tools for Rotational Therapy. Conference on Emerging Trends in Radiation Therapy Techniques" **CETRIT-2016**, SMS Medical College in association with ARTTI-NC, Jaipur, **Apr 2, 2016**
22. "Concepts of Biological Models" SRS-SBRT, Association of AROI-Rajasthan Chapter & AMPI-NC, SMS Medical College & Hospital, Jaipur, **3<sup>rd</sup> April 2016**

23. Scattered radiation dose to cornea of cancer patients of head and neck region treated by EBRT” Invited Talk- 111<sup>th</sup> Scientific Meeting of the Japan Society of Medical Physics (JSMP) Yokohama, Japan, April **14th -17th, 2016.**
24. “Dosimetric Characteristics of Al<sub>2</sub>O<sub>3</sub>: C nanodot as OSLD system” **Invited Talk-** 111<sup>th</sup> Scientific Meeting of the Japan Society of Medical Physics (JSMP) Yokohama, Japan, April **14th -17th, 2016.**
25. “Thyroid dysfunction following therapeutic external radiation to head and neck cancer” **Invited Talk-** 111<sup>th</sup> Scientific Meeting of the Japan Society of Medical Physics (JSMP) Yokohama, Japan, April **14th -17th, 2016.**
26. “Medical Physics education in India”, **Invited talk** – Symposium on Medical physics, New Delhi, **9<sup>th</sup> July, 2016**
27. “Paradigm shift in Diagnostic Radiology” Workshop on Quality Assurance & Radiation Protection in Diagnostic Radiology”, SMS Medical College & Hospitals, Jaipur **26<sup>th</sup> -27<sup>th</sup> August 2016** “AERB regulations for planning of Diagnostic Radiology department” Workshop on Quality Assurance & Radiation Protection in Diagnostic Radiology, SMS Medical College & Hospitals, Jaipur **26<sup>th</sup> -27<sup>th</sup> August 2016**
28. **Hemalatha A., Arun Chougule**, “Estimated risk of radiation induced secondary cancer following chest wall irradiation by conformal wedge field and fIMRT radiotherapy technique for post mastectomy breast cancer patients” **September 2016**
29. **Athiyaman M., Arun Chougule** “Analysis of accuracy of interpolation methods in estimating the output factor for square field in linear accelerator” AFROBIOMEDIC-2016, **October 2016.**
30. Medical Physics Education Status-Role of Professional organizations and regulations at Hyderabad, **15<sup>th</sup> oct. 2016**
31. “Applications of radiation in Healthcare” conference on Radiation in Health Care- CRHC-2K16, at SMS Medical College & Hospital, Jaipur. **7<sup>th</sup>-8<sup>th</sup> November 2016**
32. “Radiobiology of particle therapy” **Invited Talk**, International Conference on Radiation Biology-ICRB-2016, SRM University, Chennai, **9<sup>th</sup>-11<sup>th</sup> Nov. 2016**
33. “Medical Physics education role of professional organization and regulatory bodies” **Invited Talk**, AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
34. **Ananth K, Arun Chougule** “Comparison and evaluation of different beam arrangements for five beam 3DCRT plans in cases of Carcinoma Distal Esophagus” accepted presentation AMPICON 2016, Hyderabad, **- 18-20 Dec. 2016**
35. **Ananth K, Arun Chougule** “Evaluation of Quality Assurance parameters for an indigenously developed Telecobalt Machine: BHABHATRON II TAW” accepted presentation AMPICON 2016, Hyderabad, **18-20 Dec. 2016**
36. **Suresh Kumar Akula, Arun Chougule**, “Estimation Of Patient Dose With Good Image Quality Undergoing Diagnostic Radiological Procedures” accepted presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
37. **Sonal Varshney, Arun Chougule** “TPS calculated IMRT point dose verification with 0.6 cc Ion-chamber and comparison with TLD measurements in radiotherapy treatment of carcinoma esophagus.” Accepted presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
38. **Gourav Kumar Jain, Arun Chougule**, “Commercial luminescence dosimetry systems in India- Evaluation and Comparison of various dosimetric characteristics for in vivo dosimetry” accepted presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
39. **Gurvinder Singh, Arun Chougule**, “Comparison of clinical outcomes of 3DCRT and IMRT techniques for different treatment sites using TCP and NTCP radio-biological models” accepted for presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
40. **Athiyaman M., Arun Chougule**, “Analysis of accuracy of Interpolation methods in estimating the output factors for square fields in linear accelerator” accepted for presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
41. **Hemalatha A., Arun Chougule**, “Estimated risk of radiation induced contra lateral breast cancer following chest wall irradiation by conformal wedge field and forward intensity modulated radiotherapy technique for post mastectomy breast cancer patients” accepted for presentation AMPICON 2016, Hyderabad, **-18-20 Nov. 2016**
42. “Physical aspects of Radiobiology of hypofractionated radiotherapy” **Invited Talk**, AROICON-2016, Bhubaneswar, **24-27 Nov. 2016**
43. “An Introduction of Brachytherapy” **Invited Talk**, Application of Radiation in Cancer Treatment-ARCT-2017, at Swasthya Kalyan Institute, Sitapura, Jaipur **28<sup>th</sup>-29<sup>th</sup> Jan. 2017**

44. "Conference on Mobile Tower Radiation" Department of Telecommunication, Govt. of India, at Udaipur **17<sup>th</sup> February 2017.**
45. "Radium to particle therapy-Radiobiology of Radiotherapy" **Invited Talk**, AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
46. **Rajni Verma, Arun Chougule**, "Cytological assessment and verification of Radiotherapy treatment outcomes for oral cavity cancers" AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
47. **Suganya S., Arun Chougule**, "Assessment of thyroid patients form superclavicular field irradiation of breast cancer patients using nano dot optically stimulated luminescence detector " AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
48. **Gaurav K. Jain, Arun Chougule**, "A pilot study to arrive at dose reference levels (DRLS) for interventional cardiology" AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
49. **Gurvinder Singh, Arun Chougule**, "Evaluation of routine paediatric radiological chest imaging procedures for estimation of dose to gonads and DRL" AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
50. **Gomathi R., Arun Chougule**, "Symmetric field wedge factor formalism using 0.125 Cc ion chamber for linear accelerator" AMPI-NC, UCMS & GTB Hospital, New Delhi, **25-26 Feb. 2017.**
51. "Radium to particle therapy-Radiobiology of Radiotherapy" **Invited Talk**, AROICON-2017, Mahatma Gandhi Hospital, Sitapura, Jaipur, **25-26 March 2017**
52. **Rajni Verma, Arun Chougule**, "Assessment of cytological changes and verification of Radiotherapy Treatment outcomes for oral cavity cancers" RAJ-AROICON-2017 , Mahatma Gandhi Hospital & Research Center, Sitapura, Jaipur, **25-26 March 2017**
53. **Gomathi R, Arun Chougule**, "Assessment of Thyroid Doses From Supraclavicular Field Irradiation of Breast Cancer Patients " RAJ-AROICON-2017 , Mahatma Gandhi Hospital & Research Center, Sitapura, Jaipur, **25-26 March 2017.**
54. "Biological & Clinical aspects of extreme Hypofractionation in Radiotherapy" International Symposium "Physics, Biological and Clinical aspects of Hypofractionated Radiotherapy" SMS Hospital, Jaipur, **2<sup>nd</sup> April 2017**
55. "Radiation Biology of Hypo Fractionation" **Invited Talk**, Conference on Image Guidance in the Era of High Precision Radiotherapy in collaboration with Association of Radiation Therapy Technologists of India-Northern Chapter (ARTTI-NC) Max Super Specialty Hospital, Mohali, **8<sup>th</sup> April 2017.**
56. "Radiobiology of Particle therapy" **Invited Talk**, Conference on Image Guidance in the Era of High Precision Radiotherapy in collaboration with Association of Radiation Therapy Technologists of India-Northern Chapter (ARTTI-NC) Max Super Specialty Hospital, Mohali, **8<sup>th</sup> April 2017.**
57. **Gaurav K. Jain, Arun Chougule**, "Dosimetric comparison of dose to contra lateral breast in postmestectomy patients treated using different treatment techniques" **ICARO2, IAEA Headquarter, Vienna, 20-23 June 2017**
58. **Gaurav K. Jain, Arun Chougule**, "Measurment of testicular dose during the treatment of Ewing Sarcoma patitent by External Beam Radiotherapy" **ICARO2, IAEA Headquarter, Vienna, 20-23 June 2017**
59. "Prevalence of cancer in women: Diagnosis and Treatment strategy" **Invited Talk**, National Seminar on Reproductive Health advances for adolescent, Department of Zoology, Punjab Agricultural University, Ludhiana, **8-9 September 2017**
60. Assessment of acute reactions as radiation protection tool for patients treated with radiotherapy. Book of Synopsis of International Conference on Radiation Protection in Medicine: Achieving Change in Practice; 2017 Dec 11-15, IAEA Headquarters, Vienna
61. Retrospective analysis of Radiation Protection in Interventional Cardiology for proposing Eye Lens dosimetry. Book of Synopsis of International Conference on Radiation Protection in Medicine: Achieving Change in Practice; 2017 Dec 11-15, IAEA Headquarters, Vienna.
62. "Advances in radiotherapy in betterment of cancer management" Invited Talk, World Congress on Cancer, MGMCH, Jaipur, 3-5 February 2018
63. "EMF Emissions: The Medical Aspects", Awareness Programme on EMF Emission and Telecom Towers, SMS Hospital, Jaipur, 9 February 2018.