

Office: Department of Radiation Oncology
University of California, San Diego
Moores UCSD Cancer Center
3960 Health Sciences Drive #0865
La Jolla, CA 92093-0865

EDUCATION

- 1/84-12/86 **Doctor of Medicine (Radiotherapy)**
Post-Graduate Institute of Medical Education & Research
Chandigarh, India
- 8/77-12/81 **M.B.B.S.**
Panjab University,
Chandigarh, India

POST DOCTORAL TRAINING

- 5/97-9/99 Resident in Radiation Oncology, University of Rochester School of Medicine and Dentistry,
Strong Memorial Hospital, Rochester, NY
- 3/87-1/90 Senior Resident, Radiotherapy, Post-Graduate Institute of Medical Education & Research,
Chandigarh, India
- 1/87-3/87 Senior Research Officer, Hospital-based Cancer Registry sponsored by Indian Council of Medical
Research, New Delhi, India.
- 1/84-12/86 Junior Resident, Radiotherapy, Post-Graduate Institute of Medical Education & Research,
Chandigarh, India.
- 1/83-12/83 House Physician, Medicine, Dayanand Medical College & Hospital, Ludhiana, Punjab, India
- 1/82-12/82 Resident Intern (Rotatory Internship), Dayanand Medical College and Hospital, Ludhiana, Punjab

LICENSURE AND CERTIFICATION

- 2001 Virginia State License: #0101230962
- 2000 American Board of Radiology, Certified in Radiation Oncology
- 1999 California State License: #A69947
- 1999 United States Medical Licensure Examination (U.S.M.L.E.)
- 1999 Pennsylvania State License: #MD067083L
- 1998 New York State License: #212741
- 1996 Diploma in Medical Radiotherapy and Oncology (D.M.R.T.)
The Royal College of Radiologists, London, U.K.
- 1993 Registered with General Medical Council, London

- 1983 Registered with Punjab Medical Council, Chandigarh, India
- 1990 Diplomate of National Board (D.N.B.), National Board of Examinations
New Delhi, India

FELLOWSHIP AWARDS

- 2002 ASTRO Travel Grant to attend the 21st Annual Meeting of the European Society for Therapeutic Radiology and Oncology, Prague, Czech Republic, September 17-21, 2002.
- 1998-1999 ACRO Howard H. Wong Fellowship in Radiation Oncology, at Memorial Sloan Kettering Cancer Center, New York
- 1998 RSNA Roentgen Fellow/Resident Research Award
- 2/95-2/96 Commonwealth Scholarship in Cancer Research (Brachytherapy) at University of Glasgow. Registrar in Radiotherapy at Beatson Oncology Centre, Western Infirmary, Glasgow, U.K.
- 12/93-6/94 Fellow, Department of Radiation Oncology at University of Rochester Cancer Centre, Rochester, New York, U.S.A.

FACULTY APPOINTMENTS

- 7/09-present Clinical Professor, Radiation Oncology, University of California, San Diego, CA
- 8/05-6/09 Associate Professor, Radiation Oncology, University of California, San Diego, CA
- 7/01-7/05 Associate Professor, Radiation Oncology, Eastern Virginia Medical School Norfolk, VA
- 7/00-6/01 Assistant Professor, Radiation Oncology, Univ. of Rochester School of Med. & Dentistry, Rochester, NY
- 10/99-6/00 Instructor, Radiation Oncology, University of Rochester School of Medicine & Dentistry, Rochester, NY
- 8/92-5/97 Assistant Professor, Radiotherapy, Post-Graduate Institute of Medical Education & Research, Chandigarh, India
- 4/92-8/92 Assistant Professor, Radiotherapy, Maulana Azad Medical College, New Delhi, India
- 2/90-4/92 Senior Lecturer, Radiotherapy, Government Medical College, Patiala, Punjab, India

PROFESSIONAL HOSPITAL & ADMINISTRATIVE APPOINTMENTS

- 3/08-present Medical Director, Department of Radiation Oncology, UCSD
- 2010-11 Participated in Medical Center CAP Equipment committee
- 2008-present Member, Moores Cancer Center Quality sub-committee, UCSD, CA
- 2008-2009 Member, Moores Cancer Center Pharmacy & Therapeutics sub-committee, UCSD, CA
- 2008-09 Proton Therapy Work Group & Technical Advisory Group, UCSD, CA
- 7/08-present Member, Patient Care and Peer Review Committee, UCSD

7/07-present Member, UCSD Cancer Committee

8/06-6/08 Principal Investigator (PI) for RTOG, Moores Cancer Center, UCSD, CA

8/06-present Recruitment and Admissions Committee (RAC), University of California, San Diego School of Medicine (UCSD-SOM)

7/06-present Member, Cancer Committee, Veterans Administration (VA), La Jolla, CA

12/01-7/05 Intravascular Brachytherapy Steering Committee, SNGH, Norfolk VA

7/01-7/05 Attending Radiation Oncologist, Norfolk General Hospital/ Eastern Virginia Medical School, Norfolk, VA

7/01-7/05 Professional Services Committee of Eastern Virginia Medical School, Norfolk, VA

7/00-6/01 Clinical Director, Robert J. Flavin Radiosurgical Center, University of Rochester Medical Center, Rochester, NY

7/00-6/01 Attending Radiation Oncologist, University of Rochester Medical Center, Rochester, NY

PROFESSIONAL ORGANIZATIONS

- American Board of Radiology 5/16/2000 – Present
- American Society for Therapeutic Radiology and Oncology 01/01/2001 – Present
- San Diego County Medical Society (SDCMS) 2008-present
- Royal College of Radiologists, London 06/1995 – Present
- American College of Radiology 01/01/2001 – 02/03/2005
- American College of Radiation Oncology 07/1/1997 – 12/2003
- Radiologic Society of North America 11/1997 – 04/2003
- American Medical Association 04/29/1988 – 12/31/2002
- Association of Radiation Oncologists of India Lifetime member
- Indo-American Cancer Association Lifetime member

JOURNAL REVIEWS

Reviewer for following journals:
 Int J Radiat Oncol Biol Phys
 Radiotherapy & Oncology
 Clinical Oncology
 Radiation Oncology

OTHER TEACHING/MENTOR ACTIVITIES

2012 International Editorial Advisory Board member, Journal of Postgraduate Medical Education & Research

2010 Expert Reviewer for Prostate Cancer Foundation of Australia

2010 American Cancer Society- Institutional Research Grant Reviewer

7/08 –present International Union against Cancer (UICC) Fellowship Reviewer

2010 American Cancer Society-Institutional Research Grant reviewer

2008-09 Independent Study Project committee member, Danner Kim, Clinical Outcomes of Low-Stage Non-Small Cell Lung Cancer (NSCLC) and Metastatic Lung Disease Patients Treated With a Frameless Stereotactic Body Radiotherapy (SBRT) Approach

3/2009 Independent Study Project committee member, Victoria Sheen (MSIV), Cyclin-E modulation of human glioma radiation sensitivity

2006-08 Independent Study Project committee member, Ehatsham Ahmad (MSIV), Three-dimensional conformal radiotherapy for Stage I non-small cell lung cancer

LECTURESHIPS AND SPEAKING ENGAGEMENTS

3/12 Lung SBRT: an overview. VA Pulmonary/ Critical Care Fellows Case Conference

1/12 Stereotactic Body Radiation Therapy in early stage Non-Small Cell Lung Cancer-Technique and Current status. Symposium- Stereotactic Body Radiation Therapy in Multimodality Approach to Liver, Lung and Spinal Tumors, New Delhi, India

1/12 An overview on SBRT dose scheduling and dose limits to organs at risk. Hands On symposium for SBRT, Max hospital, New Delhi

11/11 Radiation Therapy for Lung Cancer, Lung Cancer Awareness Symposium at Encinitas Library Radiation Therapy for Lung Cancer, Encinitas, CA

8/11 Introduction to Radiation Oncology, Health Information Partners (HIP) program, UCSD Preuss School, La Jolla, CA

4/11 Role of Intensity Modulated Radiation Therapy (IMRT) In Head and Neck Cancer, Multi-Disciplinary Cancer Symposium on Head and Neck Cancer, Patel Hospital, Jalandhar, India

3/11 Adjuvant and Salvage radiotherapy for prostate cancer, 4th annual UCSD Urology Post-Graduate Course, La Jolla, CA

2/11 Radiation therapy for lung cancer, Veterans Administration Medical Center, Pulmonary Medicine Grand Round, La Jolla, CA

11/10 Radiation Therapy for lung cancer, Lung Cancer Day, Moores Cancer Center, University of California, San Diego, CA

7/10 Advances in Radiation Oncology, Preuss student site visit at MCC, Health Information Partners (HIP) program, UCSD Preuss School, La Jolla, CA

3/10 Image Guided Radiation Therapy for prostate cancer: Modern techniques to increase dose and limit toxicity, at UCSD Urology Postgraduate course, La Jolla, CA

11/09 Participated as Faculty in the Thoracic Oncology Interactive Tumor Board at the International meeting of the American College of Chest Physicians (Chest 2009), San Diego, CA

11/09 Role of Radiation Therapy for lung cancer, Lung Cancer Day, Moores Cancer Center, University of California, San Diego, CA

- 10/09 Advances in Radiation Oncology, San Diego Cancer Registrar Association annual educational meeting, San Diego, CA
- 9/09 Prostate Cancer Community Seminar, UCSD Moores Cancer Center, La Jolla, CA
- 7/09 Introduction to Radiation Oncology, Health Information Partners (HIP) program, UCSD Preuss School, La Jolla, CA
- 7/09 IMRT – Do's and Don'ts in Head and Neck Cancer, International Head & Neck Symposium, University of Southern California, Los Angeles, CA
- 4/09 Hypofractionated Radiotherapy for lung cancer, International Oncology Conference at kumarakom, Kerala, India
- 4/09 Image guided radiation therapy for prostate cancer, International Oncology Conference at kumarakom, Kerala, India
- 3/09 Radiotherapy for lung cancer, UCSD Lung Cancer Seminar, La Jolla, CA
- 2/09 Case for Adjuvant Radiotherapy for prostate cancer, UCSD Urology Post-graduate Conference, La Jolla, CA
- 12/08 Conformal Radiotherapy treatment for Stage I Non-small Cell Lung Cancer (NSCLC), UCSD Cancer Committee, La Jolla, CA
- 11/08 Recent advances in Radiation Therapy for lung cancer, Lung Cancer Day, Moores Cancer Center, University of California, San Diego, CA
- 10/08 Radiosurgery for lung tumors, Veterans Administration Medical Center, Grand Round, La Jolla, CA
- 9/08 Modern image-guided radiation therapy for prostate cancer, Prostate Cancer Symposium, Moores Cancer Center, University of California, San Diego, CA
- 8/08 IGRT for prostate cancer at the Prostate cancer day symposium at UCSD, La Jolla, CA
- 06/08 "IMRT, implants and particle therapy," Veterans Administration Medical Center, La Jolla, CA
- 02/08 "Stage 1 Seminoma: The Case for Radiation Therapy," Challenging Cases in Urologic Oncology, Westin San Diego, CA
- 02/08 "Rationale and Implementation of Image Guided Radiation Therapy for Prostate Cancer," Post Graduate Institute of Medical Education and Research, Chandigarh, India
- 01/08 "Radiation Therapy of ENT cancers" Hematology Oncology didactic series for residents/fellows at Veterans Administration Medical Center, La Jolla, CA
- 11/07 "Radiation for Lung Cancer" Focus on Lung Cancer (Lung Cancer Day), Moores Cancer Center, University of California, San Diego, CA
- 09/07 "Image Guided Radiation Therapy" Radiology Grand Rounds, Hilcrest Medical Center, University California, San Diego
- 05/07 "Advances in Radiation Oncology", lecture for Head and Neck Subspecialty Oncology Seminar at Veteran's Administration Medical Center, La Jolla, CA
- 04/07 "Secondary malignancies following radiotherapy for seminomas: Concerns, precautions and new developments". Urology Quarterly Conference attended by community urologists

- 02/07 "Radiation Therapy for Lung Cancer" Medical Oncology Fellows Didactic lecture series at Moores Cancer Center
- 02/07 "Radiation Therapy for Lung Cancer" Medical Oncology Fellows Didactic lecture series at Moores Cancer Center
- 05/06 "Conventional Therapy- Medical, Radiation and Augmentation for spine metastasis" Invited Guest Speaker for 47th Annual Meeting of American Society of Interventional & Therapeutic Neuroradiology (ASITN)
- 05/06 "Basic Radiation Oncology for otolaryngologist" Lecture to Head and Neck Surgery Residents at University of California, San Diego, CA
- 04/06 "Nasopharyngeal Cancer" Lecture to Head and Neck Surgery Residents at University of California, San Diego, CA
- 03/06 "Advances in Radiation Oncology for Prostate Cancer" Featured Speaker for Prostate Cancer Research & Education Foundation of San Diego, Ca
- 09/05 "Advances in Imaging and Radiation Oncology." Scientific Retreat, Borrego Springs, CA, September 24-25, 2005.
- 04/05 "The Role of Radiation in Oral Cancer," Second Annual Head and Neck Symposium, Contemporary Management and Rehabilitation of Oral Cancer, EVMS, April 16, 2005.
- 12/04 "Radiotherapy in Colorectal Cancers," Multidisciplinary GI Cancer Grand Rounds, EVMS/SNGH, December 7, 2004.
- 10/04 "Basic Principles in Gynecologic Radiotherapy," Lecture to Gynecologic Residents, Sentara Norfolk General Hospital, Norfolk, VA, October 23, 2004.
- 11/01 "Conformal and radiosurgical treatment approaches for the liver and lung tumors," 23rd National Conference of Association of Radiation Oncologists of India, Chandigarh, India.
- 9/01 "Radiation and Pituitary Tumors," Invited Lecturer, EVMS Diabetes Institute.
- 5/01 "Stereotactic Radiosurgery of the brain and body," University of Rochester Cancer Center, Department of Radiation Oncology Grand Rounds.
- 4/01 "Role of Stereotactic Radiosurgery for head and neck neoplasms," Invited lecture given to the residents and faculty of Division of Otolaryngology.
- 3/01 "Shaped beam radiosurgery for metastatic disease," Invited Lecturer, Post-Graduate Institute of Medical Education & Research, Chandigarh, India.
- 3/00 "Role of body radiosurgery in the management of liver and lung tumors," Invited Lecturer, Post-Graduate Institute of Medical Education & Research, Chandigarh, India.
- 2/00 "3 Dimensional conformal radiotherapy for unresectable liver disease," Invited Lecturer, Post-Graduate Institute of Medical Education & Research, Chandigarh, India.
- 3/97 "Brachytherapy practice and planning," Invited Lecturer, Workshop on Clinical Application of Iridium-192 at M.D. Oswal Cancer Treatment and Research Foundation, Ludhiana, India.

PUBLICATIONS

1. Sandhu A, Ioffe V, Karakla D et al. Prospective Single-Arm Study of Radioprotection by Amifostine in High Dose Radioactive Iodine Therapy for Thyroid Cancer. J Postgrad Med Edu Res 2012;46(2):94-98.

2. Beant Singh Gill, Ali Hosseini Rivandi, Sameer Pal Sandhu, Lindsay G. Jensen, Polly D. Nobiensky, Carl K. Hoh and Ajay Pal Sandhu. The role of positron emission tomography following radiosurgical treatment of malignant lung lesions. *Nuclear Medicine Communications* 33: 607–612, 2012
3. Justin C. Park, **Ajay Sandhu**, Gwe Ya Kim, Todd Pawlicki, W. Tyler Watkins, Bongyong Song, and William Y. Song. GateCT™ surface tracking system for respiratory signal reconstruction in 4DCT. *Medical Physics* 2012
4. Jia-Zhu Wang, Roger Rice, , Arno J. Mundt, **Ajay Sandhu** et al. Feasibility and Advantages of using Flattening Filter-Free Mode for Radiosurgery of Multiple Brain Lesions. *PRO* 2012.
5. Marco Wendel, Lyudmila Bazhenova, Rogier Boshuizen, Anand Kolatkar, Meghana Honnatti, Edward H Cho, Dena Marrinucci, , **Ajay Sandhu**, Anthony Perricone, Patricia Thistlethwaite, Kelly Bethel, Jorge Nieva, Michel van denHeuvel and Peter Kuhn. Fluid biopsy for circulating tumor cell identification in patients with early-and late-stage non-small cell lung cancer: a glimpse into lung cancer biology. [PhysBio 9: 2012](#)
6. Nath, S, **Sandhu, A** et al. Frameless Image-Guided Stereotactic Body Radiation Therapy for Lung Tumors with 4DCT or 4DPET/CT. *Clinical Lung Cancer* 12:180-6, 2011
7. **Ajay P. Sandhu**, Karen Messer, Mark M. Fuster et al. Hypofractionated Radiotherapy for Stage I Non-Small Cell Lung Carcinoma in Patients Aged 75 Years and Older. *Journal of Cancer Therapy*, 2011, 2, 167-171
8. D Simpson, J Einck, S Nath, R Sethi, J Wang, A Mundt, **A Sandhu**. Comparison of Daily Cone Beam CT and Kilovoltage Planar Imaging for Target Localization in Prostate Cancer Patients Following Radical Prostatectomy. *Practical Radiation Oncology* 1: 156-162, 2011
9. Sameer Nath, **Ajay P Sandhu** et al. Locoregional and Distant Failure following Image-Guided Stereotactic Body Radiation for Early-Stage Primary Lung Cancer. *Radiother Oncol* 99: 12-17; 2011
10. Jia-Zhu Wang, Todd Pawlicki, Roger Rice, Arno J. Mundt, **Ajay Sandhu**, et al. Intensity-Modulated Radiosurgery with Rapidarc for multiple brain metastases and comparison with static approach. *Medical Dosimetry* 37: 31-36, 2012
11. Watkins WT, Li R, Lewis J, Park JC, Sandhu A et al. Patient-specific motion artifacts in 4DCT. *Med Phys.* 37(6):2855-61; 2010
12. Nath S, Sethi RA, **Sandhu APS** et al. Target Localization and Toxicity in Dose-Escalated Prostate Radiotherapy with Image-Guided Approach using Daily Planar Kilovoltage Imaging. *Technology in Cancer Research & Treatment (TCRT)* 10 (1): 31-37; 2010
13. Sandhu AP: Pitfalls of retrospective and nonrandomized comparison of treatment modalities. *J Clin Oncol* .29:.5352, 2010
14. Jia-Zhu Wang, Roger Rice, Todd Pawlicki, Arno J. Mundt, **Ajay Sandhu**, Joshua Lawson, and Kevin T. Murphy. Evaluation of patient setup uncertainty of optical guided frameless system for intracranial stereotactic radiosurgery. *Journal of Applied Clinical Medical Physics* 11: 92-100, 2010
15. Laura I Cervino, Yan Jiang, **Ajay Sandhu**, Steve B Jiang. Tumor motion prediction with the diaphragm as a surrogate: a feasibility study. *Phys. Med. Biol.* 55: 221–229; 2010
16. Nath, S, **Sandhu, A** et al. Toxicity Analysis of Post-Operative Image-Guided Intensity-Modulated Radiotherapy for Prostate Cancer. *International Journal of Radiation Oncology, Biology, Physics* 78:435-41, 2010
17. E Ahmad, **A Sandhu**, M Fuster et al: Hypofractionated Radiotherapy as Definitive Treatment of Stage I Non-Small Cell Lung Cancer in Older Patients. *American Journal of Clinical Oncology* 34: 254-8, 2011

18. J Wang, R Rice, A Mundt, **A Sandhu**, K Murphy. Image-Guided Stereotactic Spine Radiosurgery on a conventional linear accelerator. *Medical Dosimetry* 35: 53-62, 2010
19. **Ajay Sandhu** et al. Definitive radiotherapy for stage I Non-small cell carcinoma (NSCLC): Institutional experience with contemporary conformal planning. *Clinical Lung Cancer* 10: 433-437, 2009
20. J Lawson, **A Sandhu** et al. Emerging Role of Stereotactic Radiotherapy (SRT) in the Treatment of Lung Cancer. *Current Cancer Therapy Review* 5: 281-87, 2009
21. Sameer K. Nath, Daniel R Simpson, Brent S Rose and **Ajay P Sandhu**. Recent Advances in Image-Guided Radiotherapy for Head and Neck Carcinoma. **Journal of Oncology** ID 752135, 2009
22. **Sandhu APS**, Mundt AJ: Radiation Therapy for Urological Malignancies in the Elderly. *Urologic Oncology: Seminars and Original Investigations* 27: 643–652, 2009
23. Laura I Cervino, Alvin K Y Chao, **Ajay Sandhu** and Steve B Jiang The diaphragm as an anatomic surrogate for lung tumor motion. *Phys. Med. Biol.* 54 (2009) 3529–3541
24. **Sandhu APS**, Sethi R, Rice R, Wang J, Marcus L, Salem C, Downs T, Parsons J, Millard F, Pawlicki T, Mundt A: Prostate bed localization with image-guided approach using on-board imaging: Reporting acute toxicity and implications for radiation therapy planning following prostatectomy. *Radiother and Oncol.* 88(1): 20-25, 2008.
25. Constine LS, Tarbell N, Hudson M, Schwartz C, Fisher S, Muhs A, Basu S, Kun L, Ng A, Mauch P, **Sandhu APS**, Culakova E, Lyman G, Mendenhall N: Subsequent malignancies in children treated for Hodgkin's disease: associations with gender and radiation dose. *Int J Radiat Biol Phys.* 72: 24-33, 2008.
26. **Sandhu APS**, Rao N, Giri S, He F, Karakla D, Wadsworth T, McGaughey D, Silverberg M: Role and extent of neck dissection for persistent nodal disease following chemo-radiotherapy for locally advanced head and neck cancer: How much is enough? *Acta Oncologica.* 47:948-953, 2008.
27. **Sandhu APS**, Mundt AJ: Radiation Therapy for older cancer patients. *Aging Health* 2(6), 2006.
28. Loffe V, Miller M, **Sandhu APS**, et. al.: Radiosurgical treatment of brain metastases in a community oncologic practice. *Commun Oncol*, 1(3):149-158, 2004.
29. **Sandhu APS**: In Regard to Fish, Is the patient on this team? Regarding Coronary Artery Radiation Therapy. *Int J Radiat Biol Phys.* 58(5):1640-1, 2004.
30. Biswas T, **Sandhu APS**, Schell M, Maciunas R, Muhs A, Okunieff P: Low dose radiosurgery for benign intracranial lesions. *Am J Clin Oncol.* 26(4):325-331, 2003.
31. **Sandhu APS**, Constine LS, O'Mara RE, Hinkle A, Muhs A, Woolf P: Subclinical thyroid disease after radiation therapy detected by radionuclide scanning. *Int. J. Radiat. Oncol. Biol. Phys.* 48:181-188, 2000.
32. **Sandhu APS**, Zelefsky MJ, Lee HJ, Lombardi D, Fuks Z, Leibel SA: Long term urinary toxicity after 3-dimensional conformal radiotherapy for prostate cancer in patients with prior history of transurethral resection. *Int. J. Radiat. Oncol. Biol. Phys.* 48:643- 647, 2000.
33. **Sandhu APS**, Robertson AG, Souter DS et al: Interstitial Iridium-192 implantation for recurrent and/or locally advanced head and neck cancer. *Clin. Oncol.* 11:371-378, 1999.
34. **Sandhu APS**, Symonds RP, Robertson AG et al: Interstitial Iridium-192 implantation combined with external radiotherapy in anal cancer: Ten years experience. *Int. J. Radiat. Oncol. Biol. Phys.* 40:575-581, 1998.
35. Singh DP, Sharma SC, **Sandhu APS**, Goenka MK et al: Primary gastrointestinal lymphoma: disease spectrum and management: A 15 year review. *Ind. J. Gastroenterol.* 16:88-90, 1997.

36. **Sandhu APS**, Patel FD, Singh DP, Sharma SC, Negi PS, Ayyagari S, Gupta BD: Results of treatment in endometrial carcinoma: Ten years experience. *Ind. J. Cancer.* 34:77-83, 1997.
37. Singh DP, Nagi B, Singh SK, **Sandhu APS**, Goenka M, Sharma SC: Primary Non-Hodgkin's Lymphoma of small bowel with enterovesical fistula. *Bull, PGI.* 31:33-35, 1997.
38. Biswas T, Singh DP, **Sandhu APS** et al: A prospective study of alternating chemo-radiation vs. radiation alone in the treatment of advanced head and neck cancers: A preliminary report. *J. Clin Radiother. Oncol.* 11:36-39, 1996.
39. Singh DP, **Sandhu APS**, Sharma SC, Mukhopadhyay P et al: Simultaneous Iridium brachy therapy implantation for two adjacent basal cell carcinomas over the face : A unique experience. *Bull. PGI.* 30:169-171, 1996.
40. Yin FF, Rubin P, Schell MC, Wynn R, Raubertas RF, Uschold G, **Sandhu APS**, Nelson DF: An observer study for direct comparison of clinical efficacy of electronic to film portal images. *Int. J. Radiat. Oncol. Biol. Phys.* 35:985-991, 1996.
41. Dhillon MS, Singh DP, Sur RK, Prabhu V, **Sandhu APS**, Nagi ON: Ewing's sarcoma of the foot bone: An analysis of seven cases. *Journal of Contemporary Orthopaedics.* 29:127-132, 1994.
42. **Sandhu APS**, Sharma SC, Singh DP, Panda NK, Mann SBS, Akram S, Patel FD, Gupta BD: Carcinoma larynx in northern India : Clinical spectrum and results of treatment. *Pakistan Journal of Otolaryngology.* 10:194-199, 1994.
43. Singh DP, Gupta BD, Patel FD, **Sandhu APS**, Singh S, Negi PS: Brachytherapy treatment of vulval cancer using Iridium-192 interstitial implantation : A case report. *Bull. PGI.* 28:163-165, 1994.
44. Singh DP, Gupta BD, Sharma SC, **Sandhu APS**, Murali BV, Negi PS: Successful treatment of basal cell carcinoma of pinna with brachytherapy using Iridium-192 implantation. *Bull. PGI.* 28:121-124, 1994.
45. Singh DP, **Sandhu APS**, Sharma SC, Mitra S, Gupta BD, Jalali RK, Negi PS: Iridium-192 isotope implantation and management of squamous cell carcinoma of chest wall. *Bull. PGI.* 28:90-92, 1994.
46. Gupta BD, Singh DP, **Sandhu APS**, Sharma SC, Patel FD, Negi PS, Munjal RK, Singh H: Role of Iridium-192 Isotope in management of inoperable chest wall recurrence of carcinoma breast: A feasibility study. *J. Clin. Radiother. Oncol.* 8:55-58, 1993.
47. Gupta A, Sharma SC, Singh DP, **Sandhu APS**, Ravi K, Murali BM, Jalali R, Gupta BD, Das R: Primary lymphoma of the para-spinal tissue : An unusual clinical presentation. *J. Clin. Radiother. Oncol.* 8: 63-65, 1993.
48. **Sandhu APS**, Patel FD, Singh DP, Sharma SC, Gupta BD: Results of treatment in endometrial carcinoma: Five years experience. *J. Clin. Radiother. Oncol.* 8:14-17, 1993.
49. Ravi K, **Sandhu APS**, Sharma SC, Patel FD, Sushmita G, Singh DP, Gupta BD: Results of treatment in advanced carcinoma breast - 10 year review. *J. Clin. Radiother. Oncol.* 8:19-24, 1993.
50. **Sandhu APS**, Sharma SC, Patel FD, Singh DP, Gupta BD: Non Hodgkin's lymphoma - Clinical profile and treatment. *J. Clin. Radiother. Oncol.* 7: 19-23, 1992.
51. Sharma S, Sharma SC, Singhal S, Mehra YN, Gupta BD, Ghoshal S, **Sandhu APS**: Carcinoma of the maxillary antrum - A 10 year experience. *Indian Journal of Otolaryngology.* 43: 191-194, 1991.
52. Kaushal R, Sharma S, Singhal S, Ghoshal S, **Sandhu APS**, Singh R, Gupta NM: Carcinoma of the esophagus presenting with esophagocutaneous fistula - A case report. *Indian J. Medical Sciences.* 45: 13-15, 1991.
53. Sharma S, Singhal S, **Sandhu APS**, Ghoshal S, Gupta BD, and Yadav NS: Local thermoradiotherapy in carcinoma cervix: Improved local control versus increased incidence of distant metastasis. *Asia - Oceania*

J. Obstet. Gynaecol. 17:5-12, 1991.

54. Sharma S, **Sandhu APS**, Patel FD, Ghoshal S, Gupta, BD, Yadav NS: Side-effects of local hyperthermia: Results of a prospectively randomized clinical study. *Int J Hyperthermia*, 6:279-285, 1990.
55. Sharma S, Sharma SC, Ghoshal S, **Sandhu APS**, Gupta BD: Radiation in the management of carcinoma of the maxillary antrum: An overview of 10 years. *The Indian Practitioner*. November: 971- 976, 1990.
56. Sharma S, Singhal S, Ghoshal S, **Sandhu APS**, Patel FD, Gupta BD, Yadav NS: Intracavitary brachyhyperthermia: A new approach for the treatment of carcinoma of the cervix. *The Indian Practitioner*. April: 321-327, 1990.
57. Kaushal R, Sharma S, Singhal S, Ghoshal S, **Sandhu APS**, Singh R, Gupta NM: Occult carcinoma esophagus metastatic to spine producing paraplegia- A case report and review of literature. *Indian J. Medical Sciences*. 44: 304-306, 1990.
58. **Sandhu APS**, Ayyagari S, Negi PS, Patel FD, Ghoshal S, Gupta BD: Status of local control and radiation reaction with different applicators in carcinoma cervix. *J. Clin. Radiother. and Oncol.* 4: 1-6, 1989.
59. Sharma S, **Sandhu APS**, Patel FD, Ghoshal S: Intracavitary brachyhyperthermia - Current status of a newer modality. *AMPI Medical Physics Bulletin*.14: 55-59, 1989.
60. Sharma S, Patel FD, **Sandhu APS**, Gupta BD, Yadav NS: A prospective randomized study of local hyperthermia as a supplement and radiosensitizer in the treatment of carcinoma of the cervix with radiotherapy. *Endocurietherapy/Hyperthermia Oncology*, 5:151-159, 1989.
61. Sharma SC, Patel FD, **Sandhu APS**, Ayyagari S, Gupta BD: Chemotherapy in advanced carcinoma ovary. *Indian J. Cancer Chemotherapy*. 9: 103-108, 1987.

Book Chapters:

1. Jiang S, Mell L, **Sandhu APS**: Image Guided and Adaptive Radiation Therapy in Clinical Practice: Lung Cancers. Chapter 11. Editors: R Timmerman, L Xing: Image-Guided and Adaptive Radiation Therapy, LWW, 2009.
2. **Sandhu, A**, Jiang, S. Case Study: Hypofractionated radiosurgical treatment for lung cancer with image guided approach: IGRT: A clinical perspective (in press) 2011
3. **Sandhu APS**, Peacock J, Smith J: Cancer of the major digestive glands: Pancreas, liver, bile ducts, gall bladder. Rubin, P (ed): Clinical Oncology: A Multidisciplinary Approach, 8th edition, W.B. Saunders, 2001.
4. **Sandhu APS**, Williams J, Constone L: Late effects of radiation therapy. Encyclopedia of Cancer, 2nd Edition, Academic Press, 2001.

Abstracts:

1. A Bergamo, **A Sandhu** et al. Utility of 4D-PET/CT for ITV Definition. 2012 AAPM Annual Meeting.
2. A Sandhu et al. Response patterns with PET after SBRT of malignant lung lesions. ESTRO 2012. Radiother Oncol. 103 S1: 302-303, 2012
3. **Sandhu AP** SBRT Palliates Lung Cancer Symptoms Safely and Effectively. Presented at Chest 2011 Honolulu. Quoted in Pulmonary Reviews 2012; 17(1):1.21
4. **A Sandhu** et al. Response patterns with positron emission tomography after stereotactic radiotherapy of malignant lung lesions. ESTRO 31, 2012
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