**RONIK S. BHANGOO, M.D.**

Curriculum Vitae

 Ironwood Cancer & Research Centers,
 A division of Ironwood Physicians, PC

**WORK EXPERIENCE**

**Ironwood** Radiation Oncologist, Mesa, Arizona  01/2022-

**Physicians, PC** Present

**EDUCATION AND TRAINING**

**Residency**  Radiation Oncology, *Mayo Clinic College of Medicine,* Phoenix,

07/2017- 06/2021

Arizona

**Residency**  Diagnostic Radiology, *Cedars Sinai Medical Center,* Los Angeles,

California

07/2016- 06/2017

**Internship**  Internal Medicine, *University of Arizona College of Medicine—*

*Phoenix,* Phoenix, Arizona

06/2015- 06/2016

**MD** *University of Arizona College of Medicine—Phoenix,* Phoenix,

05/2015

Arizona

**BA** *Yale University,* New Haven, Connecticut05/2010

**CERTIFICATIONS**

Board Eligible American Board of Radiology Present Controlled Substance License US Drug Enforcement Agency Present

**CLINICAL EXPERIENCE**

**Accelerator-Based Radiation Therapy Modalities**

▪ Linac-Based SRS and SBRT, Proton Radiotherapy, IMRT, 3DCRT, Total Skin Electron

Therapy, Total Body Irradiation, Intraoperative Radiotherapy

**Radioactive Source-Based Radiation Therapy Modalities**

▪ HDR Interstitial & Intracavitary Brachytherapy, 131I, 223Ra, 177Lu

**Radiation Oncology Software Systems**

▪ Eclipse Treatment Planning / Aria Record & Verify Systems, Brainlab SRS Planning and

ExacTrac Image Guidance Systems, Vision RT Surface Image Guidance

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**HONORS AND AWARDS**

Assistant Professor of Radiation Oncology, Mayo Clinic 2020
Marley Endowment Fund (Research Grant, $75,000), Mayo Clinic 2020
Senior Resident Associate, Mayo Clinic 2020

Chief Resident, Mayo Clinic 2019-2021 Student Scholar, American Society of Nephrology 2012-2013 Editorial Board, Yale Philosophy Review, Yale University 2009

Fields Program Scholar, Yale University 2008-2010 Critical Language Scholar, US Department of State 2008
Robert C. Byrd Scholar, US Department of Education 2006-2010

**RESEARCH**

**Protocol**

1. A phase 2 single-arm trial of stereotactic body proton therapy for hepatocellular

carcinoma. PI: Jonathan Ashman, MD PhD. Mayo Clinic in Arizona. Opened February
2021.

**Publications**

1. **Bhangoo RS** *et al.* Intensity-Modulated Proton Therapy for Hepatocellular Carcinoma:

Initial Clinical Experience. Adv Radiat Oncol. 2021 Mar 2;6(4):100675. PMID:
34409199

2. Feng H…**Bhangoo RS** *et al.* Technical Note: 4D robust optimization in small spot
intensity-modulated proton therapy (IMPT) for distal esophageal carcinoma. Med Phys.

2021 Aug;48(8):4636-4647. PMID: 34058026

3. Anderson JD…**Bhangoo RS** *et al.* Unplanned implant removal in locally advanced breast

cancer. Breast J. 2021 May;27(5):466-471. PMID: 33715231

4. Yang Y*…***Bhangoo RS** *et al.* Dose-Linear Energy Transfer (LET) Volume Histogram

(DLVH) for Adverse Events Study in Intensity-Modulated Proton Therapy (IMPT). Int J
Radiat Oncol Biol Phys 2021 Jul 15;110(4):1189-1199. PMID: 33621660

5. **Bhangoo RS** *et al.* Obstructive Rectosigmoid Colon Solitary Extramedullary
Plasmacytoma. Dig Liver Dis. 2021 Apr;53(4):496-497. PMID: 33376074

6. Feng H…**Bhangoo RS***et al.* Beam angle comparison for distal esophageal carcinoma
patients treated with intensity-modulated proton therapy. J Appl Clin Med Phys. 2020
Oct 15;21(11):141-52. PMID 33058523

7. **Bhangoo RS** *et al.* Acute toxicities and short-term patient outcomes after intensity-
modulated proton therapy or intensity-modulated photon radiotherapy for esophageal

carcinoma: The Mayo Clinic Experience. Adv Radiat Oncol. 2020 May 19; 5(5): 871-
879. PMID: 33083649

8. Liu C…**Bhangoo RS** *et al.* Technical Note: Treatment planning system (TPS)
approximations matter - comparing intensity-modulated proton therapy (IMPT) plan

quality and robustness between a commercial and an in-house developed TPS for non-
small cell lung cancer (NSCLC). Med Phys. 2019 Nov; 46(11):4755-4762. PMID:
31498885

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9. Liu C, **Bhangoo RS** *et al.*  Dosimetric comparison of distal esophageal carcinoma plans
for patients treated with small-spot intensity-modulated proton versus volumetric-
modulated arc therapies. J Appl Clin Med Phys. 2019 Jul; 20(7):15-27. PMID: 31112371

10. **Bhangoo RS** *et al.* Radiation Recall Dermatitis After the Use of Pralatrexate for
Peripheral T-cell Lymphoma. Adv Radiat Oncol. 2018 Oct 12; 4(1):31-34. PMID:

30706007

11. Parikh CR, Hall IE, **Bhangoo RS** *et al.* Associations of perfusate biomarkers and pump

parameters with delayed graft function and deceased donor kidney allograft function. Am
J Transplant. 2016 May; 16(5): 1526-39. PMID: 26695524

12. Hall IE\*, **Bhangoo RS\*** *et al.* Glutathione S-Transferase iso-enzymes in perfusate from
pumped kidneys are associated with delayed graft function. Am J Transplant. 2014 Apr;
14(4): 886-96. \*Both authors are co-first authors. PMID: 24612768

13. **Bhangoo RS** *et al.* Deceased-donor kidney perfusate and urine biomarkers for kidney
allograft outcomes: a systematic review. Nephrol Dial Transplant. 2012 Aug; 27(8):
3305-14. PMID: 22498916

14. Joshi MP, **Bhangoo RS**, Kumar K. Quality of nutrition related information on the
internet for osteoporosis patients: a critical review. Technol Health Care. 2011; 19(6):

391-400. PMID: 22129940

**Book Chapters**

1. Penoncello GP…**Bhangoo RS** *et al.* Chapter 2: The History and Future of IGRT in

Abdominal Cancer. Principles and Practice of Image Guided Radiotherapy in Abdominal
Cancer. Institute of Physics. Anticipated 2021

2. Thorpe CS, **Bhangoo RS** *et al.* Particle Therapy for Prostate Cancer. Principles and
Practice of Particle Therapy. Wiley. Anticipated 2021

**COMMITTEE MEMBERSHIPS**

Hepatobiliary Disease Group, Mayo Clinic 2020-2021 Radiation Oncology Quality Assurance Committee, Mayo Clinic 2020-2021 Performance Improvement Committee, Cedars Sinai 2016-2017 Accreditation and Medical Education Committee, Arizona Medical Association 2012-2013 American Medical Association (School Chapter), University of Arizona 2011-2013

**PROFESSIONAL MEMBERSHIPS**

American Brachytherapy Society 2020-Present American Society for Radiation Oncology (ASTRO) 2017-Present American Board of Radiology (ABR) 2016-Present American Medical Association (AMA) 2011-Present Arizona Medical Association (ArMA) 2011-Present