

CURRICULUM VITAE



SUBARNA HAMID EISAMAN, M.D. Ph.D.

EXECUTIVE SUMMARY

Highly motivated physician leader with track record of bridging organizational silos to align administrative, faculty and clinical imperatives. Strong supporter of radiation oncology growth, community outreach and multidisciplinary collaborations as foundation for a fiscally and clinically effective, compassionate, and resilient health care team that is prepared to face current and future challenges.

Board Certified Radiation Oncologist with 12 years' experience working in patient-focused cancer care in a close-knit, multidisciplinary community environment. Leadership experiences include active role as Regional Medical Director for East Region of University of Pittsburgh Medical Center (UPMC) Department of Radiation Oncology, Medical Director for stand-alone UPMC Johnstown Cancer Center Radiation Oncology site, Elsevier Clinical Pathways Co-Chair (Lung/Bone Mets/Oligometes), and Founding-Chair of UPMC Radiation Oncology Faculty Promotions Committee. Extensive experience in large network physician peer review of VMAT/IMRT/SBRT plans, Epic/Aria/Eclipse electronic medical record/treatment planning systems, along with IMRT/VMAT/IGRT and 3D conformal planning for all body sites.

BIOGRAPHICAL

Name: **SUBARNA HAMID EISAMAN, M.D. Ph.D.**
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EDUCATION and TRAINING

UNDERGRADUATE

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
08/1996- 05/1999	Pace University Pleasantville, NY	B.S. 1999	Biochemistry

GRADUATE

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
08/1999- 05/2007	Penn State Univ Hershey, PA	MD., Ph.D. 2007	Biochemistry & Mol Biology

POSTGRADUATE

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
07/2007- 06/2008	Penn State Univ Hershey, PA	PGY-1 2008 (Director: Dr. Richard Bollard)	Internal Medicine
07/2008- 06/2012	Tufts, Boston, MA Brown Univ, Providence, RI	PGY-2-5 2012 (Director: David Wazer)	Radiation Oncology

APPOINTMENTS and POSITIONS

ACADEMIC

Years Inclusive	Name and Location of Institution or Organization	Rank/Title
10/2012-08/2023	Department of Radiation Oncology	Clinical Assistant Prof
08/2023	Univ of Pittsburgh Medical Center Pittsburgh, PA	Clinical Associate Prof

NON-ACADEMIC

10/2012-present	Conemaugh Hospital, Johnstown, PA	Staff Physician
10/2012-present	Chan Soon-Shiong MC, Windber, PA	Staff Physician
10/2012-present	Excelsa Health System, Greensburg, PA	Staff Physician
10/2012-present	UPMC Somerset Hospital, Somerset, PA	Staff Physician

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

Certifying Board	Year
American Board of Radiology	2014
Certified in Radiation Oncology	

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Year
American Society for Radiation Oncology (ASTRO)	2008- present
American Society of Clinical Oncology (ASCO)	2008- present
PA Medical Society	2018- present

HONORS

Title of Award	Year
Chief Resident- Department of Radiation Oncology	2011-2012
Selected for National Integrating Radiobiology with Medical Physics (IBPRO) (Funded by NIH/NCI R25 grant)	4/27-5/2/2018
Service Award for Lymphoma Pathway Chairmanship	2018-2019
UPMC Physician Excellence Award – UPMC Physician Excellence in Leadership (Nominated by physician peers)	10/18/2022

SERVICE: Physician Leadership Role

- **Bolded** sections highlight activities involving women and underrepresented minority populations in medicine

Leadership Organization	Position	Dates	Summary of Role
1. UPMC Department of Radiation Oncology	Medical Director, Johnstown, PA	2018- present	Active involvement in daily clinical workflow and collaboration with staff and administration. Top Performer within UPMC Hillman Cancer Center in National Press Ganey Scores in Jun, July and August 2022.

2.	UPMC-Conemaugh 1889 Foundation Joint Venture Board of Directors	Member	2018- 2022	Participation in organizational and management meetings quarterly with joint venture board members and administration.
3.	Elsevier ClinicalPath (formerly Via Oncology Pathways)	Chair for Lymphoma and Myeloma Pathways	2018-2020	Evidence based update of clinical pathways quarterly, chairing committee meetings and daily off-pathway review of cases (>30 cases/month)
4.	Elsevier Clinical Pathway (Formerly Via Oncology Clinical Pathways)	Chair for Respiratory and Thoracic Cancers Pathway Chair for Bone Metastasis Pathway	2018-present 2020-present	Quarterly review and regular update of best practice guidelines in collaboration with multi-institutional radiation oncologists. Ad hoc institutional review of off pathway cases to help implement these guidelines.
5.	UPMC Rad Onc Steering Committee	Network Physician Representative	2018-present	Active participant of group taking lead on adapting the Electronic Medical Records to fit daily rad onc needs.
6.	Radiation Oncology DSMB and Clinical Trials Committee	Network Physician Representative	2019-present	Participate in opening national and institutional clinical trials in our network sites, in addition to providing constructive feedback to colleagues regarding new trial initiatives.
7.	UPMC Breast Cancer Multidisciplinary Tumor Board in Johnstown	Organizer	2019-present	Coordinate and collaborate with local breast surgeons, medical oncologists, plastic surgeons, radiologists and

			pathologists quarterly to optimize patient care.
8. UPMC Radiation Oncology Medical Management Committee	Regional Medical Director (East)	2019-2024	<p>Regional clinical management coordination with multiple network rad onc sites (Greensburg, Monroeville, Indiana, Somerset, Altoona, Johnstown).</p> <p>Daily case/plan peer-to-peer reviews with covering locum physicians at UPMC Indiana Rad Onc Site (2019-2020).</p> <p>Address radiation plan related patient concerns for regional sites.</p> <p>Review plans with regional physicists and dosimetrists at their request for additional safety checks.</p>
9. UPMC Radiation Oncology Faculty Promotions and Development Committee	Founding Chair	2021-2023	Spearheaded the structure and function of this new committee to foster faculty development and promotions in our department using UPSOM framework.
10. UPMC Radiation Oncology Faculty e-rounds	Physician Advisor/ Coordinator	2022-present	<p>Primary organizer for the rad onc system-wide monthly online case review and discussion.</p> <p>This provides main faculty education forum and is accredited CME activity.</p>
11. Radiation Oncology Department Chair Search Advisory Committee	Network Physician Representative	2022 International Chair Search	Active participant in the chair candidate screening and interviews

12. UPMC Women Leaders in Radiation Oncology	Active Member	2020-present	Active participant in fostering and promoting UPMC women radiation oncologists within our institution and beyond.
13. Women in Medicine Summit (WIMS) Abstract Committee	Reviewer	2022	Abstract reviewer for the annual 2022 Summit. WIMS focuses on helping underrepresented women in medicine to publish in an international peer-reviewed forum.
14. Elsevier Clinical Pathway Oligometastatic Disease Pathway Development	Founding Committee member	2023-present	One of four national radiation oncologists developing a new clinical pathway for new oligomet disease treatment paradigm that is rapidly evolving based on current literature evidence.
15. UPMC Employee Experience Committee	Member	2024-present	Part of a new multidisciplinary team spear heading relevant issues such as staff retention and workplace satisfaction.
16. Rad Onc Department Physician Peer Review Committee	Invited member	2024-present	Physician lead prospective peer review group to improve quality of radiation oncology care throughout 30+ cancer centers.

SERVICE: Physician Community Outreach

- **Bolded** sections highlight activities involving special populations with limited access to cancer-related care

Organization	Specifics	Dates	Summary
1. UPMC Neuro-Oncology Department	Optune	2017-present	Regular interactions with UPMC Shadyside (Dr. Jain Drappatz). One of few Radiation Oncologist certified prescribers for TTF-therapy via

				Optune for GBM patients in the region. Participate in regular meetings with local representatives to facilitate patient care.
2.	Annual Physician Dinner and Discussion	Local venue	2018-present	Update local PCPs, Surgeons and Medical Oncologists regarding rad onc advances to help mutual patients.
3.	Local Lymphedema Clinics	Vantage Rehab Drayer Rehab	2018-present	Active collaboration with local lymphedema specialists regarding breast cancer patient care.
4.	UPMC Somerset	Nutrition Department	2018-present	Direct weekly meeting with dietician (Fran Lechak) regarding optimal nutrition for patients with special needs like diabetics, PEG-tube and J-tube dependent patients. Special focus on underprivileged and minority patients with lack of access to nutrition services.
5.	Local Oral Surgery Group	Gress Oral Surgery	2018-present	Active collaboration with local oral surgery team to optimize dental care for H&N cancer patients. Special focus on underprivileged and minority patients with lack of access to dental care.
6.	Conemaugh New Physician Introduction and Site Tour	Drs. Kaleigh Kurfman (Colorectal surgery) and Dr. Meagan Marley (Breast Surgery)	09/27-28/2022	Establish contact and give them a radiation oncology site tour to highlight the services we provide in the medical community. Fostering a connection of women in medicine locally.
7.	Local lymphedema prevention event	Local venue	01/31/2023	Active participation in the meeting to encourage collaboration among local breast surgeons, physical therapists, lymphedema specialists and radiation oncologists for early

detection and prevention of breast-cancer related lymphedema.
Primarily targeted providing service to the underserved female cancer population in the Cambria County, PA region.

8. Meeting with Select Specialty recovery hospital	Local venue	2/9/2023	After clinic meeting with local extended care and rehabilitation facility to foster continued close collaboration regarding mutual patients. This includes meeting with both rehabilitation staff and referring physicians from local non-UPMC hospitals.
9. Conemaugh Learning Institute Sponsored Updates in Plastic Surgery	Local venue	3/22/2023	Evening community education event to meet with local plastic surgery team in Johnstown, PA.
10. Conemaugh Learning Institute Sponsored Cardiothoracic Surgery: Transcatheter Aortic Valve Replacement (TAVR) and Robotic Thoracic Surgery	Local venue	5/23/2023	Evening community education event to meet with local cardiothoracic surgery team in Johnstown, PA.
11. Education session with UPMC Cardiothoracic Surgery, Somerset, PA	Local Venue	7/19/2024	Evening community education event to meet with local cardiothoracic surgery team in Johnstown, PA.
12. Education session for Lymphedema Care	Local Venue	10/18/2024	Evening community education event to review lymphedema treatment options available for patients locally in Johnstown, PA.

SERVICE: Invited Media Interviews and Participation

Organization	Location	Dates	Summary
1. The Tribune-Democrat	Newspaper (print and online)	10/17/2013	Featured as only local female Radiation Oncologist in Johnstown, PA. ¹
2. The Tribune-Democrat	Newspaper	10/1/2017	Highlighting UPMC Johnstown Cancer Center as “the region’s primary radiation technology center.” ²
3. The Tribune-Democrat	Newspaper	09/22/2017	Multiple breast cancer patient testimonials featured in local newspaper. ^{3, 4}
4. The Tribune-Democrat	Newspaper	10/2/2018	Raising breast cancer awareness. ⁵
5. The Tribune-Democrat	Newspaper	09/30/2019	“Breast cancer awareness- Targeting tumors: Radiation focused to protect nearby organs.” ⁶
6. The Tribune-Democrat	Newspaper	10/01/2019	Raising breast cancer awareness in local community. ⁷
7. The Tribune-Democrat	Newspaper	10/01/2021	Highlights local Hillman cancer center as part of the Hillman family providing world class care in Johnstown, PA ⁸
8. UPMC Hillman Cancer Center/	Live Steelers Football Game-	10/10/2021	Check presenter on behalf of UPMC Hillman Cancer Center to the Komen Foundation.

¹ Griffith, Randy. New area doctors add breast care expertise. The Tribune-Democrat (Final ed.). 2013 Oct 17. E-paper available from: https://www.tribdem.com/news/local_news/.html. Also available in paper copy from the publisher.

² Griffith, Randy. Radiation therapy is ‘constantly updated,’ allowing docs to target tumors with greater precision. The Tribune-Democrat (Final ed.). 2017 Oct 1.

³ Hurst, David. ‘You gotta stay positive’: Westmont woman says attitude played important role during cancer battle. The tribune-Democrat (Final ed.). 2017 Oct 22.

⁴ Fisher, Ronald. Life after breast cancer: Survivors offer words of advice, encouragement. The tribune-Democrat (Final ed.). 2017 Sep 30.

⁵ Griffith, Randy. Breast cancer awareness: Updated radiation therapy options coming to region. The tribune-Democrat (Final ed.). 2018 Oct 2.

⁶ Griffith, Randy. Breast cancer awareness: Targeting tumors: Radiation focused to protect nearby organs. The Tribune-Democrat (Final ed.). 2019 Sep 30.

⁷ Griffith, Randy. Breast cancer awareness: Female doctors now the norm at area medical centers. The Tribune-Democrat (Final ed.). 2019 Oct 1.

⁸ Griffith, Randy. Breast Cancer Awareness: Johnstown cancer center tied to international program at Pitt. The Tribune-Democrat (Final ed.). 2021 Oct 1.

Griffith, Randy. Radiation therapy targets recurrence. The Tribune-Democrat (Final ed.). 2021 Oct 1.

Breast Cancer Awareness	Heinz Stadium Social Media (Facebook, Instagram, Twitter, etc.)		
9. UPMC Hillman Cancer Center/ National Women Physician Day		02/03/2022	"In honor of #NationalWomenPhysiciansDay... proud to feature outstanding female physicians from throughout our system." ⁹
10. The Tribune Democrat	Newspaper	10/01/2022	Highlight the Hillman quality breast cancer care we provide for the local community ¹⁰ .
11. The Tribune Democrat	Newspaper	10/02/2023	Breast cancer awareness and importance of early detection. ¹¹
12. UPMC Hillman Cancer Conversation-Breast Cancer	Invited Speaker	10/14/2023	Community discussion about early signs of breast cancer, screening, and treatment options.
13. UPMC Hillman Cancer Conversation-Prostate Cancer	Invited Speaker	11/16/2023	Community discussion about early signs of prostate cancer, screening, and treatment options. options could be
14. Local News (WJAC) report on cervical cancer awareness	Invited oncologist	01/23/2024	Local news report to increase cervical cancer awareness and role of HPV- vaccine in cancer prevention ¹² .
15. UPMC Virtual Cancer Conversation Series	Invited speaker	9/11/2024	Live virtual event open to general audience to present an Introduction to Radiation Oncology in an easy-to-understand forum where viewers can submit questions.

⁹ Available from: <https://nep.facebook.com/UPMCHillmanCancerCenter/photos/a.236264503090883/5069015823149036>

¹⁰ Sutor, Dave. Breast Cancer Awareness | Doctors use high-dose radiation to reduce number of treatments, enhance recovery. The Tribune-Democrat (Final ed.). 2022 Oct 1. https://www.meadvilletribune.com/news/breast-cancer-awareness-doctors-use-high-dose-radiation-to-reduce-number-of-treatments-enhance-recovery/article_420f35d1-136a-51c8-a6b2-ef382e3cfad8.html

¹¹ Griffith, Randy. Breast Cancer Awareness | UPMC Hillman brings cancer experts close to home. The Tribune-Democrat (Final ed.). 2023 Oct 2.

¹² Jarrell, McKenzie. Oncologist emphasizes knowledge, testing in cervical cancer awareness month. 2024. Jan 23. <https://wjactv.com/news/local/oncologist-emphasizes-knowledge-testing-in-cervical-cancer-awareness-month>

16. The Tribune Democrat Special Section	Newspaper	10/2/2024	Special report highlighting important role of Johnstown Hillman Cancer Center in making National clinical trials available to local patients. ¹³
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PUBLICATIONS

1. ORIGINAL PEER REVIEWED ARTICLES (in chronological order)

- i. **Hamid S**, Eckert KA. Effect Of DNA Polymerase Beta Loop Variants On Discrimination Of O6-Methyldeoxyguanosine Modification Present In The Nucleotide Versus Template Substrate. *Biochemistry* 2005 Aug 2;44(30):10378-87.
- ii. **Hamid S**, Rocchio K, Arthur D, Vera R, Sha S, Jolly M, Cavanaugh S, Wooten E, Benda R, Greenfield B, Prestidge B, Ackerman S, Kuske R, Quiet C, Snyder M and Wazer D. A Multi-Institutional Study Of Feasibility, Implementation, And Early Clinical Results With Noninvasive Breast Brachytherapy (NIBB) For Tumor Bed Boost. *Int J Radiat Oncol Biol Phys.* 2012 Aug 1;83(5):1374-80.
- iii. Leonard Kim, Stephanie Markovina, Samantha J Van Nest, **Subarna H Eisaman**, Lakshmi Santanam, Julie M Sullivan, Michael Dominello, Michael C Joiner, Jay Burmeister. Three discipline collaborative radiation therapy (3DCRT) special debate: Equipment development is stifling innovation in radiation oncology. *J Appl Clin Med Phys.* 2019 Sep;20(9):6-11.
- iv. Krisha Howell, Martha Matuszak, Charles A Maitz, **Subarna H Eisaman**, Laura Padilla, Stephen L Brown, Michael C Joiner, Michael M Dominello, Jay Burmeister. Three Discipline Collaborative Radiation Therapy (3DCRT) special debate: In the future, at least 20% of NIH funding for radiotherapy research should be allocated to non-oncologic applications. *J Appl Clin Med Phys.* 2020 Feb;21(2):7-13.
- v. Whoon Jong Kil, Ryan Collins, Susan Branton, Tyler Wilhite, **Subarna Eisaman**. Breast-directed Quad Shot Radiotherapy for Effective Breast Symptoms Palliation Without Interrupting or Delaying Systemic Cancer Therapy schedule in patients with Neglected Breast Cancer. *Adv Rad Oncol.* (2023) 8, 101229.
- vi. Whoon Jong Kil, Wilke Christopher T, Mowery Yvonne, **Subarna Eisaman**. Pharyngeal Constrictor-sparing Salvage SBRT with Tongue-Out in a patient with In-Field Recurrent after Definitive RT for Head & Neck Cancer: Guide to Tongue-Out RT (TORT). Accepted for publication in *Practical Radiation Oncology*. June 28, 2024 [PRACTICALRADONC-D-24-00332R1]

2. BOOKS, BOOK CHAPTERS AND MONOGRAPHS

- vii. **Eisaman Hamid S**, Dupuy DE, Role of Combination Therapies in the Treatment of Non-small Cell Lung Cancer and Thoracic Metastasis. In: McMullen WN, Dupuy DE, Fong Y, et al.

¹³ Hurst, David. Breast Cancer Awareness | Hillman Cancer Center links Johnstown to UPMC system. *The Tribune-Democrat* (Final ed.). 2024 Oct 2.

editors. Image-Guided Cancer Therapies: A multiple-disciplinary approach. New York, NY: Springer, 2013.

3. ABSTRACTS (not published in Scientific Journals)

- viii. **Hamid S**, Eckert, K. Chemotherapeutic Nucleoside Analogues And DNA Polymerase Beta. Poster Session. AACR Meeting Abstracts 2005, 2005: 319-c-320. 96th American Association for Cancer Research Annual Meeting, Anaheim, CA.
- ix. **Hamid S**, Ackerman S, Arthur D, Benda R, Cavanaugh S, Kuske R, Prestidge B, Quiet C, Sha S, Wazer DE. A Multi-Institutional Assessment Of The Feasibility, Implementation, And Early Clinical Results With Noninvasive Image-Guided Breast Brachytherapy For Tumor Bed Boost. Poster Session. December 11, 2010: Abstract P4-11-13. 33rd Annual San Antonio Breast Cancer Symposium, San Antonio, TX.
- x. **Hamid S**, Ackerman S, Arthur D, Benda R, Cavanaugh S, Kuske R, Prestidge B, Quiet C, Sha S, Wazer DE. A Multi-Institutional Study Of Implementation, Tolerance And Early Clinical Results With Non-Invasive Image-Guided Breast Brachytherapy For Tumor Bed Boost. Oral Presentation. April 16, 2011: Abstract #151ABS11D1, OR48. 2011 Annual American Brachytherapy Society Meeting, San Diego, CA.
- xi. **Hamid S**, Rocchio K, Arthur D, Vera R, Sha S, Jolly M, Cavanaugh S, Wooten E, Benda R, Greenfield B, Prestidge B, Ackerman S, Kuske R, Quiet C, Snyder M and Wazer D. A Multi-Institutional Study Of Feasibility, Implementation, And Early Clinical Results With Noninvasive Breast Brachytherapy (NIBB) For Tumor Bed Boost. Poster Session. October 27, 2011: in print. Brown University 19th Annual Hospital Research Celebration, Providence, RI.

PROFESSIONAL ACTIVITIES

TEACHING

Resident and Faculty Development Teaching:

Dates	Title of Session/ Role	Frequency Duration	Sessions / year	Summary of Involvement (# of Participants)
1. 2013-present	Conemaugh Memorial Medical Center Surgical Tumor Board/ Physician Participant	Monthly 1hr	9-10	Review of AJCC cancer staging, NCCN guidelines, Radiation Oncology Clinical Pathway recommendations pertaining to the cases being presented. Includes first-, second- and third-year surgical residents (8-10). Multidisciplinary faculty (>20).

2. 2017-2020	UPMC Radiation Oncology Departmental Conference IMRT Electronic (e)-rounds/ Physician Participant	Weekly 1hr	27-30	Detailed review of recent literature and IMRT contouring/planning guidelines in reference to clinical cases treated within network. Includes second-, third- and fourth- year radiation oncology residents (4-5), plus physicists, physicians, and dosimetrists (>25).
3. 2018-2019	Elsevier ClinicPath (formerly Via Oncology Pathway)/ Lymphoma, Chair	Daily Variable	200+ cases	Leading discussions of current literature evidence and approval of ongoing pathway updates incorporating evidence and physician feedback.
4. 2018-present	Elsevier ClinicPath/ Thoracic Cancer, Chair Bone Met, Chair	Ad hoc off-pathway case reviews within all UPMC sites	300-420 cases	Includes reviewing all Radiation Oncology off-pathway patient cases for greater than 20 UPMC sites spanning Harrisburg, Pittsburgh, Erie, Susquehanna, and Bedford, PA, locations (>50). More detailed log of case review available upon request.
5. 05/2018-12/2019	UPMC Radiation Oncology, Indiana, PA/ UPMC Peer Reviewer for Locum Physician (Dr. Max Laguerre)	Daily case reviews/ variable	>150 cases	Reviewed daily patient cases prospectively including detailed contour reviews and volume modifications to optimize dose constraints. Reviewed compliance with clinical pathways.
6. 2019-present	Peer-Review Session (UPMC Radiation Oncology Union Town, Northwest, and Indiana sites)/ UPMC Peer Reviewer	Weekly/ 1.5hr	36-38	Includes Drs. Sri Kottapally, Steve Gregoritch, Ramanamoorthy Chitti and corresponding physics and dosimetry teams (6-8). Detailed case review including prospective

7. 2019 – 02/2020	UPMC Radiation Oncology, Indiana, PA/ UPMC Peer Reviewer for Locum Physician (Dr. Ramanamoorthy Chitti)	Ad hoc case reviews	15-20	contouring reviews and significant evidence-based modifications to many patients care plans. Typically, 10-12 patient cases are reviewed weekly. Prospective patient case/contour reviews and volume modifications to optimize dose constraints. Reviewed compliance with clinical pathways. Dr. Chitti was successfully recruited as fulltime physician and clinical director at UPMC Indiana Radiation Oncology Clinic starting August 2020.
8. 8/2/2022	UPMC Radiation Oncology, Williamsport, PA/ Peer Reviewer for New Physician (Dr. Kil Whoon Jong)	Ad hoc case review	1	Reviewed previous H&N oral cavity and pharyngeal constrictor sparing patient immobilizing technique he published in 2017. He is working on Quality Incentive project approval for this topic and on collaborative effort toward collecting multicenter data for prospective or retrospective analysis.
9. 2/20/2023-present	UPMC Radiation Oncology Departmental SBRT e-rounds/ Physician Participant	Monthly 1hr	9	Special case review combined with evidence-based practice guidelines for Stereotactic Body Radiation Therapy (SBRT). Includes second-, third- and fourth- year radiation oncology residents, radiation oncology physicists, physicians, and dosimetrists (>25).
10. 3/27/2023	UPMC Radiation Oncology Departmental Prostate Cancer e-rounds/ Physician Presenter	1hr	1	Review current national guidelines and literature evidence for post-prostatectomy salvage

radiation therapy in collaboration with Dr. Ryan Smith. Teaching session attended by >20 network physicians, physicists and dosimetrists. Most department residents in attendance as well.

Curriculum Development:

Dates	Title of Session/ Role	Frequency Duration	Sessions / year	Summary of Involvement
1. 2021-present	UPMC Radiation Oncology Departmental Conference e-teaching rounds/ Physician Coordinator	Monthly 1hr	9	Curriculum development involving selecting topics/clinical cases, expert discussion leaders, network presenters, anonymizing contours/plans and coordinating communications with the Department. Also maintain course accreditation for SA-CME credits.
2. 3/2023-present	Elsevier ClinicPath/ Founding committee member for new Oligometastatic Rad Onc Pathway	Monthly	Estimate 12-24	Elsevier ClinicPath/ Founding committee member for new Oligometastatic Rad Onc Pathway

Mentoring:

Dates	Title of Session/ Role	Frequency Duration	Sessions / year	Summary of Involvement (# of Participants)
1. 6/2018-6/2019	APP Training Clinical Review/ Supervising Physician	Weekly 1hr	40-45	One-on-one mentoring of Brandi Penatzer, PA-C. Previous Orthopedic surgery advanced Practice Provider (APP) whom I mentored on oncology and radiation oncology clinical patient care including hands-on physical examination and diagnosis

of radiation related toxicities/treatments.

2.	1/2020-present	APP Training Clinical Review/ Supervising Physician	Weekly 1hr	45	One-on-one mentoring of Emily Diloreto, CRNP. Previous cardiology APP whom I mentor on oncology and radiation oncology clinical patient care including hands-on physical examination and diagnosis of radiation related toxicities/treatments. Ms. Diloreto is independently seeing follow-up patients routinely in the clinic. On 01/2023 she was promoted to senior APP progressing in the UPMC professional career ladder.
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RESEARCH

CLINICAL TRIAL RELATED

- Active participation in enrollment for clinical trials currently open on-site, including:
 - Prostate NRG- GU009 PREDICT-RT (08/2020- present)
 - Carnegie Mellon Univ/Hillman Aromatase Inhibitor Trial (06/2022- present)
 - PRISM: Pennsylvania Rural Health Model - Impact on Cancer Surgery and Outcomes (Interviewed as participant on 07/27/2022)
 - UPCI 13-056/13-056A Concurrent Cisplatin vs. Docetaxel-cetuximab in locally Advanced Head and Neck Squamous Cell Carcinoma (04/2020- present)
 - EA3191 Adjuvant Therapy with Pembrolizumab after Resection of Recurrent/Second Primary Head and Neck Squamous Cell Carcinoma (12/2020-present)
- Enrollment in current National Clinical Trials, including:
 - DCISionRT Breast Registry (02/2018 and 07/2020)
 - NRG-GU009: Parallel phase III randomized trials for high-risk prostate cancer evaluating de-intensification for lower genomic risk and intensification of

concurrent therapy for higher genomic risk with radiation (PREDICT-RT)
(12/2022)

- HCC 22-030: Phase II Trial of Transoral Surgical Resection followed by de-escalated adjuvant IMRT in Resectable p16+ Locally Advanced Oropharynx Cancer (02/2023)

NON-CLINICAL TRIAL RELATED

- Preliminary collaboration with Dr. Kil Whoon Jong regarding implementing published oral cavity and pharyngeal constrictor sparing H&N immobilization technique at multiple network sites for retrospective data collection and review. Based on Kil, *et al.* Head Neck. 2017 Aug;39(8):E85-E91. (10/2022- present)

LIST of CURRENT RESEARCH INTERESTS

- Expansion of clinical compassion skills to promote operational excellence, community awareness, patient, and staff satisfaction.
- Role of peer-to-peer reviews in faculty development and continuing medical education.
- Insights into combating healthcare provider burnout at a departmental and institutional level.
- Study motivational techniques to foster healthcare provider empathy and continued work satisfaction.