

Dr. Carolina Elizabeth Fasola

Areas of Focus / Skills

Technologies

Languages: English and Spanish (fluent)
Computer: SAS statistical programming, epidemiologic analysis

Education

Undergraduate / Bachelor of Science

Vassar College, Poughkeepsie, NY
Bachelor of Arts in Biology with Honors and Departmental Honors

Harvard University, Cambridge, MA. Summer Course 2002
Johns Hopkins University Pathology Cytogenetics Laboratory Research Assistant. Fall Semester 2003, Summer 2004
Columbia University, Paris, France. Summer Abroad 2005

Residency

Department of Radiation Oncology, Stanford University, Stanford, CA Radiation Oncology Residency Training Program

Chief Resident, 2014-2015

American Association for Women Radiologists (AAWR) Member-in-Training Committee member 2014
Radiological Society of North America (RSNA) Resident and Fellow Committee member 2012-present

Medical School

Emory University School of Medicine (EUSOM) and Rollins School of Public Health, Atlanta, GA
Doctor of Medicine, master of Public Health in Epidemiology and Global Health

National Cancer Institute (NCI) Cancer Research Training Fellow 2006
Centers for Disease Control (CDC) Research Fellow 2006-2008
EUSOM Medical Student Senate, Senator 2005-2010. Secretary 2006-2008

Fellowship

Cancer Research Training Fellowship



Postgraduate & Post Doctorate Training

Kaiser Oakland Department of Internal Medicine, Oakland, CA
Preliminary Internship in Internal Medicine

Clinical Oncology Global Health rotation, Tegucigalpa, Honduras. During this elective rotation, I participated in daily patient rounds in Spanish and had exposure to a variety of cases in Medical Oncology and Radiation Oncology. I also participated in a lecture series for residents

Professional Associations

Professional Society Memberships

2012-present Radiological Society of North America
2011-present American Association for Women Radiologists
2009-present American Society for Radiation Oncology (ASTRO)

Honors and Awards

2013 Best of ASTRO 2013 Annual Meeting Abstract selection.
Abstract: Fasola CE, Jones JC, Huang DD, Le QT, Hoppe RT, Donaldson SS. Low dose radiation therapy (2 Gy x 2) in treatment of orbital lymphoma.
2009 EUSOM/Rollins School of Public Health MD/MPH Scholarship Award
2007 Breast Cancer Fund Award for work on Environmental Risks and Breast Cancer informational CD for patients.
2006 Cancer Research Training Fellowship Award, National Cancer Institute, National Institutes of Health.

Research, Publications, & Teaching

Research (Current)

Department of Radiation Oncology, Winship Cancer Institute, Atlanta, GA, 2008-2012
Investigated radiation therapy in treatment of breast cancer with neoadjuvant chemotherapy
Department of Surgical Oncology, Winship Cancer Institute, Atlanta, GA, 2009-2010
Investigated the effects of chemotherapy on neurocognitive function in breast cancer patients through an online survey
Division of Bacterial Diseases, Centers for Disease Control, Atlanta, GA, 2006-2008
Collaborated with the Get Smart: Know when Antibiotics Work campaign
Developed CDC guidelines for appropriate antibiotic use

Laboratory of Population Genetics, National Cancer Institute, Bethesda, MD, Summer 2006
Cancer Research Training Fellowship
Incorporated epidemiological methods to breast cancer research, evaluated tracts of homozygosity to search for breast cancer susceptibility genes
Department of Psychology, Vassar College, 2005
Helped develop campus website for violence prevention program and compiled reference list of

relevant articles

Department of Science, Technology and Society, Vassar College, 2004-2005

Collaborated to create an informational compact disc entitled, "Environmental Risks and Breast Cancer" used for public education

Pathology Cytogenetics Laboratory, Johns Hopkins University, Baltimore, MD, Summer 2004

Developed fluorescence in situ hybridization (FISH) probes to locate breakpoints for balanced chromosomal translocations

Book Chapters

Fasola CE, Wang L, Adler JR, Soltys SG, Gibbs IC, Koong AC, Chang D. CyberKnife. In Principles and Practice of Stereotactic Radiosurgery, 2nd edition, eds. Chin LS and Regine WF, Springer, p. 147 – 161 (2015).

Journal Articles

Kandula S, Switchenko JM, Harari S, Fasola C, Mister D, Yu DS, Zelnak A, Torres MA. Locoregional recurrence risk in breast cancer patients with estrogen receptor positive tumors and residual nodal disease following neoadjuvant chemotherapy and mastectomy without radiation therapy. *Int J Breast Cancer* 2015.

Negahdar M, Fasola CE, Yu AS, von Eyben R, Yamamoto T, Diehn M, Fleischmann D, Tian L, Loo BW, Maxim PG. Noninvasive pulmonary nodule elastometry by CT and deformable image registration. *Radiother Oncol* 2015;115:35-40.

Fasola CE, Horst, KC. Identification of patients at very low risk of local recurrence after breast-conserving surgery. *Breast Diseases: A Year Book Quarterly*. 2014;25:339-340.

Fasola CE, Jones JC, Huang DD, Le QT, Hoppe RT, Donaldson SS. Low dose radiation therapy (2 Gy x 2) in the treatment of orbital lymphoma. *Int J Radiat Oncol Biol Phys* 2013;86:930-5.

Marcus DM, Switchenko JM, Prabhu R, O'Regan R, Zelnak A, Fasola C, Mister D, Torres MA. Neoadjuvant hormonal therapy is associated with comparable outcomes to neoadjuvant chemotherapy in post-menopausal women with estrogen receptor-positive breast cancer. *Front. Oncol.* 2013;3:317.

Fasola CE, Horst KC. Fractionation for whole breast irradiation: an American Society for Radiation Oncology (ASTRO) evidence-based guideline. *Breast Diseases: A Year Book Quarterly* 2012;23:182-183.

Chen J, Chen C, Atwood TF, Gibbs IC, Soltys SG, Fasola C, Xing L. Volumetric modulated arc therapy planning method for supine craniospinal irradiation. *Journal of Radiation Oncology* 2012;1:291-297.

Prabhu R, Godette K, Carlson G, Losken A, Gabram S, Fasola C, O'Regan R, Zelnak A, Torres M. The impact of skin-sparing mastectomy with immediate reconstruction in patients with Stage III breast cancer treated with neoadjuvant chemotherapy and postmastectomy radiation. *Int J Radiat Oncol Biol Phys* 2012;82:e587-593.

Fasola CE, Jensen KC, Pai JS, Wang Z, Allison KH, Horst KC. Local recurrence among patients with pleomorphic lobular carcinoma in situ of the breast: is there a role for radiation? Manuscript Submitted to The Breast.

Horst KC, Fasola CE, Ikeda D, Bruce D, Ognibene G, Goffinet DR, Dirbas FM. Five-year results of a prospective clinical trial investigating accelerated partial breast irradiation using 3D conformal radiotherapy after lumpectomy for early stage breast cancer – locoregional recurrence and toxicity. Manuscript Submitted to International Journal of Radiation Oncology, Biology, Physics.

Vassar College, Environmental Risks and Breast Cancer. CD-ROM, 2005. I participated in a collaborative effort to create an informational compact disc used for public education. I contributed scientific information, helped edit the material and translate to Spanish to reach a broader audience.

Lectures

Fasola CE, Advani R, Hoppe RT. Clinical outcomes and risk of late effects among patients with stage I-II Hodgkin's disease with large mediastinal adenopathy treated with combined modality therapy.

Fasola CE, Ognibene G, Kapp DS, Kidd E. The benefit of radiation therapy in the management of recurrent ovarian cancer.

Fasola CE, Horst KC, Goffinet DR, Ognibene G, Bobo S, Dirbas FM. The effect of systemic therapy on local relapse among patients with early stage breast cancer treated with intraoperative radiotherapy.

Presentations

Fasola CE, Kapp DS, Kidd EA. Favorable outcomes using radiation therapy after chemotherapy in the management of primary, recurrent and metastatic ovarian cancer. Accepted for Poster Presentation. ARS Annual Meeting 2015. Kauai, HI.

Fasola CE, Horst KC, Goffinet DR, Ognibene G, Bobo S, Dirbas FM. Local recurrence among patients with early stage breast cancer treated with intraoperative radiotherapy: the effect of systemic therapy. Accepted for Poster Presentation. ASTRO Annual Meeting 2014, San Francisco, CA.

Fasola CE, Jones JC, Huang DD, Le QT, Hoppe RT, Donaldson SS. Low dose radiation therapy (2 Gy x 2) in the treatment of orbital lymphoma. Oral Presentation. ASTRO Annual Meeting 2013, Atlanta, GA. Abstract selected for first annual Best of ASTRO 2013.

Fasola CE et al. Impact of receptor status on prognosis among breast cancer patients with brain metastases treated with CyberKnife radiosurgery. Poster Presentation. San Antonio Breast Cancer Symposium (SABCS) 2012, San Antonio, TX.

Fasola CE et al. Local regional recurrence among patients with pleomorphic lobular carcinoma in situ of the breast: is there a role for radiation? Poster Presentation. ASTRO Annual meeting 2012, Boston, MA.

Fasola CE et al. Effect of radiotherapy on local regional recurrence among patients with pathologic complete response to neoadjuvant chemotherapy in breast cancer. Oral Presentation. ASTRO Annual Meeting 2010, San Diego, CA.

Fasola CE et al. Atypical fracture in a post-menopausal woman taking alendronate. Poster Presentation. American College of Physicians (ACP) regional conference 2010, San Francisco, CA.

Fasola CE et al. Imaging and receptor status as predictors of pathologic complete response to neoadjuvant chemotherapy in breast cancer. Poster Presentation. ASTRO Annual Meeting 2009, Chicago, IL.

Fasola CE et al. The effect of radiotherapy on local regional recurrence among patients with pathologic complete response to neoadjuvant chemotherapy in locally advanced breast cancer. Poster Presentation. SABCS 2009, San Antonio, TX.

Fasola CE et al. Homozygosity mapping in an inbred population using high-density single nucleotide polymorphism genotypes. Poster Presentation. Medical Student Research Day, 2007. EUSOM, Atlanta, GA.

Fasola CE et al. Homozygosity mapping in an inbred population using high-density single nucleotide polymorphism genotypes. Poster Presentation. Summer Research Poster Session 2006. National Institutes of Health, Bethesda, MD.

Axilbund JE, Klein AP, Bacon JA, Wang L, Edelstein D, Fasola CE, Giardiello FM, Griffin CA. Risk of pancreatic cancer in hereditary nonpolyposis colorectal cancer. 2006.

Struewing JP, Clifford RJ, Pereira LHM, Pineda MA, Fasola CE, Zhang H, Finney RP, Zhang J, Buetow KH. A likelihood approach to defining homozygous tracts using high-density SNP genotypes. Poster Presentation. American Society of Human Genetics annual conference 2006.

Fasola CE et al. The significance of fluorescence in situ hybridization (FISH) for detection of 1p and 19q chromosomal loss in archival gliomas. Poster Presentation. Annual Pathology Young Investigators' Day 2004, John Hopkins University, Baltimore, MD