

# *Radiation Medicine*

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# Department of Radiation Medicine

**Gregory J. Gagnon, M.D., Interim Chair**

phone: (202) 444-3320  
fax: (202) 444-9323  
appointments: (202) 444-3320

## LOCATION

Bles Building, Lower Level  
3800 Reservoir Road, NW  
Washington, DC 20007

## *Clinical Programs & Services*

**Breast Cancer Service** **(202) 444-3320**

This service provides state-of-the-art Three-Dimensional Conformal Radiotherapy, Intensity Modulated Radiotherapy (IMRT), Brachytherapy and Intraoperative Radiotherapy (IORT). A variety of clinical trials are also available.

**Contact name:** Joanne Collier-Manning, M.D.

**Appointment line:** (202) 444- 3282

**Appointment hours:** Monday – Friday, 8:00 a.m. – 5:00 p.m.

*Clinical Programs & Services, continued***CyberKnife Service****(202) 444-3320**

This service uses state-of-the-art technology to deliver radiation to a site within the brain or elsewhere within the body with pinpoint accuracy. This noninvasive treatment option is for patients with tumors and lesions of the brain and spine, or anywhere in the body, many of which have been diagnosed as inoperable. It marries a robotic arm, which is capable of fine control and precision, with an x-band accelerator. The robotic arm treats a tumor with up to 1,400+ precision radiation beams. The arrangement of beams is determined by sophisticated optimization software which attempts to maximize the dose to the tumor while sparing adjacent uninvolved tissue from unneeded radiation. Near real-time imaging allows the robot to adjust to patient and tumor movements and even to adjust to breathing motion. The sheer number of beams and fine robotic control result in delivery of high radiation doses with submillimeter precision.

The Stereotactic Radiosurgery Center treats a variety of brain tumors including malignant and nonmalignant. The center treats areas including the spine, lung, pancreas, liver and prostate. Results to date have been encouraging and the applications of this technology appear to be broad.

**Contact name:** Gregory Gagnon, M.D.

**Appointment line:** (202) 444-3320

**Appointment hours:** Monday – Friday, 8:00 a.m. – 5:00 p.m.

**Prostate Cancer Service****(202) 444-3320**

Radiation therapy for prostate cancer includes the following procedures:

- Three-Dimensional Radiation Therapy (3D-CRT) and Intensity Modulated Radiation Therapy (IMRT) – the radiation is made to conform to the shape of the tumor volume, treating the cancer while limiting the exposure of normal tissue.
- Brachytherapy and Interstitial Implantation – this procedure seals sources of radioactive materials known as “seeds” and places them directly inside tumors. As a result, tumors are treated with very high doses of radiation while the dose to surrounding healthy tissue is minimized.
- Stereotactic Radiosurgery and CyberKnife Stereotactic Radiosurgery – this treatment method delivers large doses of highly focused, convergent beams of ionizing radiation to the tumor site as described in the CyberKnife description above.

**Contact name:** Anatoly (Tony) Dritschilo, M.D.

**Appointment line:** (202) 444-3062

**Appointment hours:** Monday – Friday, 8:00 a.m. – 5:00 p.m.

## RADIATION MEDICINE

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### *Physician Listing*

#### **Gregory J. Gagnon, M.D.**

**(202) 444-9328**

**Pager: (202) 405-1187**

Title: Assistant Professor and Interim Chair,  
Department of Radiation Medicine  
Degree: University of Virginia, 1986  
Internship: University of Virginia Affiliated Hospitals, 1987  
Residency: Georgetown University Medical Center, 1990  
Certification: Therapeutic Radiology, 1991

*Special interests:*

- High-dose rate brachytherapy
- Prostate cancer
- Stereotactic radiosurgery
- Three-dimensional conformal radiotherapy

#### **JoAnn C. Collier-Manning, M.D.**

**(202) 444-3282**

**Pager: (202) 516-3388**

Title: Staff Physician, Department of Radiation Medicine  
Degree: Howard University, 1982  
Residency: Howard University Hospital, 1985  
Fellowship: University of Maryland Medical Systems, 1986  
Certification: Therapeutic Radiology, 1992

*Special interests:*

- Breast cancer
- Prostate cancer/brachytherapy
- Three dimensional conformal radiotherapy

#### **Brian T. Collins, M.D.**

**(202) 444-3282**

**Pager: (202) 405-1164**

Title: Assistant Professor, Department of Radiation Medicine  
Degree: SUNY Stony Brook, 1995  
Internship: St. Vincent's Hospital, New York, 1996  
Residency: Georgetown University Medical Center, 2000  
Certification: Therapeutic Radiology, 2000

*Special interests:*

- Brachytherapy
- CNS
- Genitourinary
- GI cancer
- Leukemia/lymphoma
- Stereotactic radiosurgery

*Physician Listing, continued***Sean Collins, M.D.****(202) 444-3062****Pager: (202) 405-2238**

Title: Instructor, Clinician, Department of Radiation Medicine

Degree: University of Michigan, 2001

Residency: Georgetown University Hospital, 2006

Certification: Radiation Oncology, 2007

*Special interests:*

- Prostate, brain, GI, stereotactic radiosurgery

**Anatoly (Tony) Dritschilo, M.D.****(202) 444-3062****Pager: (202) 405-2231**Title: Professor, Department of Radiation Medicine;  
Interim Director, Lombardi Comprehensive Cancer Center

Degree: College of Medicine of New Jersey, 1973

Internship: Cincinnati General Hospital, 1974

Residency: Harvard Joint Center for Radiation Therapy, 1977

Certification: Therapeutic Radiology, 1977

Language: Russian

*Special interests:*

- Intraoperative radiation therapy
- Prostate cancer

**David Frye, M.D.****(301) 868-1100****Pager: (202) 405-1152**Title: Instructor, Clinician, Radiation Oncology,  
Department of Radiation Medicine

Degree: Dartmouth Medical School, 1999

Residency: Georgetown University Hospital, 2004

Certification: Radiation Oncology, 2004

*Special interests:*

- General radiation oncology

## RADIATION MEDICINE

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### *Physician Listing, continued*

#### **K. William Harter, M.D.**

**(202) 444-6385**

**Pager: (202) 405-2245**

Title: Associate Professor and Vice Chair,  
Department of Radiation Medicine  
Degree: Louisiana State University, 1978  
Internship: Mayo Clinic, 1979  
Residency: Mayo Clinic, 1980;  
Harvard Joint Center for Radiation Therapy, 1982  
Fellowship: Harvard Medical School, 1982  
Certification: Therapeutic Radiology, 1982

*Special interests:*

- Head and neck cancers
- Intraoperative radiation therapy
- Lymphomas
- Spinal tumors
- Three dimensional conformal radiotherapy

#### **Jefferson E.C. Moulds, M.D.**

**(202) 444-6665**

**Pager: (202) 405-2251**

Title: Assistant Professor, Department of Radiation Medicine  
Degree: Medical College of Virginia, 1994  
Internship: St. Mary's Medical Center, 1995  
Residency: Georgetown University Medical Center, 1998  
Certification: Radiation Oncology, 1999

*Special interests:*

- Breast, prostate and gynecologic tumors
- Three dimensional conformal radiotherapy
- Head and neck cancers
- High dose rate brachytherapy

#### **Andrew Satinsky, M.D.**

**(301) 868-1100**

**Pager: (202) 405-3471**

Title: Assistant Professor, Radiation Medicine  
Degree: University of Chicago, 1989  
Internship: George Washington Hospital, 1990  
Residency: Georgetown University Hospital, 1993  
Certification: Radiation Oncology, 1994

*Special interests:*

- General adult radiation oncology

*Voluntary Clinical Faculty Listing*

**Anu Gupta, M.D.** (703) 934-4450

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Associates in Radiation Oncology, P.C.  
10301 Democracy Lane  
Fairfax, VA 22030

**Gregory Sibley, M.D.** (202) 537-4788

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Washington, DC 20016

**Anu M. Singh, M.D.** (301) 762-5595

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