

The George Washington University

# Cancer Program and Cancer Registry

Annual Report 2013

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The George Washington University Cancer Institute

The George Washington University Hospital

The George Washington Medical Faculty Associates

The Dr. Cyrus and Myrtle Katzen Cancer Research Center

**CONTENTS**

2 CANCER REGISTRY REPORT

9 GW RESOURCES

12 CANCER COMMITTEE MEMBERS

# Research, Compassionate Care, Education, and Service



THE GEORGE  
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# REGISTRY REPORT

# THE GEORGE WASHINGTON UNIVERSITY HOSPITAL

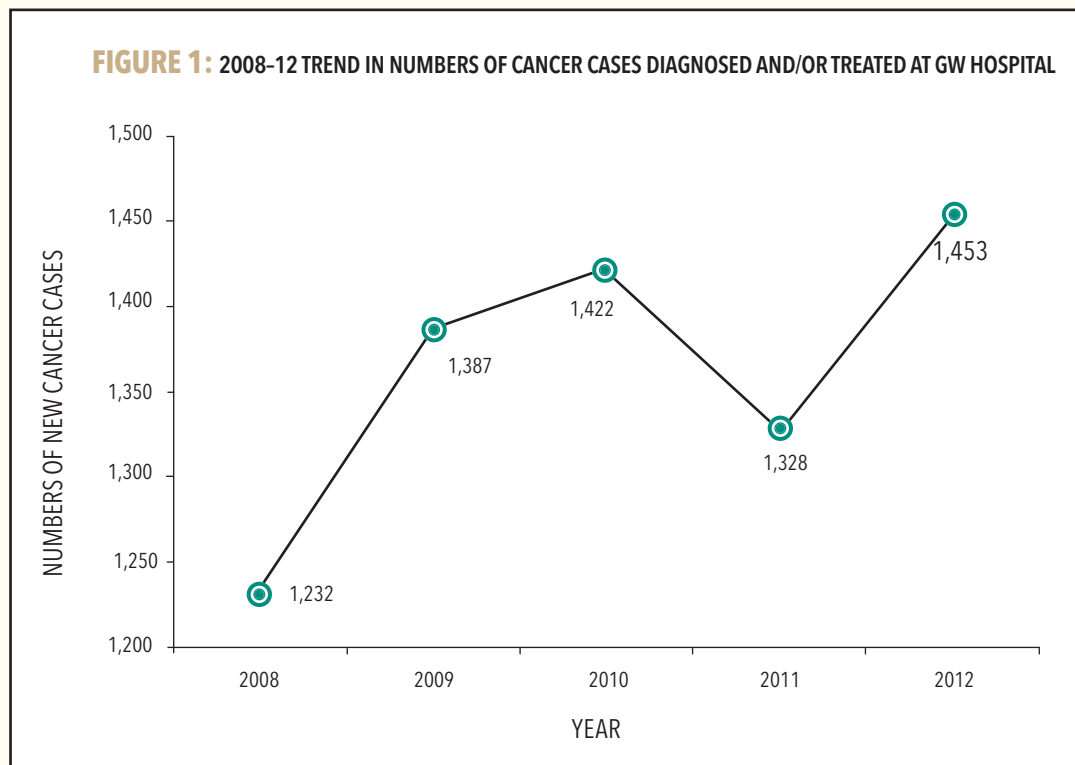
## 2013 CANCER REGISTRY ANNUAL REPORT (BASED ON 2012 CANCER DATA)

The GW cancer registry has continued to grow over the past five years. The number of patients diagnosed and/or treated (analytic cases) at the GW Hospital increased from 1,197 in 2007 to 1,333 in 2011 (Figure 1). Of these patients, 1,092, or 82 percent, were diagnosed and treated at GW Hospital. The remaining 241 cases, or 18 percent, were diagnosed and/or treated elsewhere.

The five major cancer sites treated at GW Hospital continue to be breast, lung, prostate, colon, and kidney cancers (Table 1, pp. XX-XX). There was an increase in thyroid and other endocrine glands, nervous, and digestive systems as well as a significant increase in head and neck cancers and lymphoma-hematopoietic cancers. Lymphoma-hematopoietic cancers rose from 5.7 percent in 2010 to 9.7 percent in 2011, while head and neck cancers increased from 3.8 percent in 2010 to 5.3 percent in 2011 (Figure 2).

Tables 2A and 2B (p. 30) show a comparison between GW Hospital cancer cases and national American Cancer Society (ACS) data for male and female patients. While there was a slight decrease in lung cancer among both the male and female populations at GW, patient data indicates a significant increase in leukemia cases that is even higher than it is among the ACS population. Thyroid cancer is a major female cancer for both the GW Hospital (6.7 percent) and ACS (5 percent) populations when compared to the male population at GW Hospital (2.3 percent) and ACS (1.0 percent). The rates of liver cancer cases increased from 0.9 percent in 2010 to 2.0 percent among male patients in 2011. Pancreatic cancer became a major cancer among GW Hospital's female patient population in 2011, while stomach cancer was a major cancer among the hospital's male and female populations for the year. This was a contributing factor in the increased colorectal cancer observed in 2011 at GW Hospital.

FIGURE 1: 2008-12 TREND IN NUMBERS OF CANCER CASES DIAGNOSED AND/OR TREATED AT GW HOSPITAL



**TABLE 1: THE GW HOSPITAL CANCER REGISTRY, 2012 CANCER CASES BY ANATOMIC SITE**

PRIMARY SITE	# CASES	% CASES	CLASS OF CASES		RACE***			AJCC STAGE AT DIAGNOSIS (ANALYTIC CASES ONLY)						
			ANALYTIC	ANALYTIC **	W	B	O	0	I	II	III	IV	88	UNK
<b>BREAST</b>	384	26.4	354	30	157	143	54	107	157	61	22	5	0	2
<b>MALE GENITAL</b>	228	15.7	217	11	101	87	29	2	42	123	40	9	0	1
PROSTATE GLAND	207	14.3	196	11	87	84	25	0	27	121	39	9	0	0
TESTIS	19	1.3	19	0	13	2	4	1	15	2	0	0	0	1
PENIS	2	0.1	2	0	1	1	0	1	0	0	1	0	0	0
<b>URINARY SYSTEM</b>	178	12.3	173	5	92	54	27	42	80	17	21	13	0	0
KIDNEY	88	6.1	86	2	50	24	12	0	58	6	17	5	0	0
URINARY BLADDER	66	4.6	64	2	29	23	12	31	16	9	1	7	0	0
RENAL PELVIS - URETER	22	1.5	21	1	13	7	1	10	5	2	3	1	0	0
URETHRA	2	0.1	2	0	0	0	2	1	1	0	0	0	0	0
<b>DIGESTIVE SYSTEM</b>	145	10.0	135	10	50	67	18	3	42	28	29	29	0	4
COLON	46	3.2	39	7	18	14	7	2	9	8	12	6	0	2
STOMACH	22	1.5	20	2	3	15	2	0	10	3	3	4	0	0
RECTUM	18	1.2	17	1	5	9	3	0	8	3	1	4	0	1
PANCREAS	17	1.2	17	0	7	8	2	0	2	6	0	9	0	0
ANUS/ANAL CANAL	13	0.9	13	0	5	8	0	1	2	1	8	0	0	1
ESOPHAGUS	9	0.6	9	0	4	2	3	0	2	2	3	2	0	0
SMALL INTESTINE	8	0.6	8	0	4	4	0	0	5	1	1	1	0	0
GALL BLADDER & OTHER	7	0.5	7	0	2	4	1	0	2	3	0	2	0	0
LIVER	5	0.3	5	0	2	3	0	0	2	1	1	1	0	0
<b>RESPIRATORY SYSTEM</b>	96	6.6	92	4	45	43	4	1	36	11	14	27	1	2
BRONCHUS & LUNG	94	6.5	91	3	44	43	4	1	36	10	14	27	1	2
PLEURA	2	0.1	1	1	1	0	0	0	0	1	0	0	0	0
<b>ENDOCRINE SYSTEM</b>	78	5.4	71	7	36	23	12	0	38	7	4	5	17	0
THYROID GLAND	59	4.1	54	5	29	13	12	0	38	7	4	5	0	0
OTHER GLANDS & THYMUS	19	1.3	17	2	7	10	0	0	0	0	0	0	17	0
<b>HEMATOPOIETIC</b>	77	5.3	66	11	37	19	10	0	0	0	0	0	66	0
OTHER BLOOD DISORDERS	27	2.0	22	5	15	4	3	0	0	0	0	0	22	0
MULTIPLE MYELOMA	21	1.4	19	2	7	10	2	0	0	0	0	0	19	0
CHRONIC LEUKEMIA	15	1.0	14	1	7	2	5	0	0	0	0	0	14	0
ACUTE LEUKEMIA	12	0.8	9	3	6	3	0	0	0	0	0	0	9	0
HAIR CELL LEUKEMIA	2	0.1	2	0	2	0	0	0	0	0	0	0	2	0

**TABLE 1:** THE GW HOSPITAL CANCER REGISTRY, 2012 CANCER CASES BY ANATOMIC SITE

PRIMARY SITE	# CASES	% CASES	CLASS OF CASES		RACE***			AJCC STAGE AT DIAGNOSIS (ANALYTIC CASES ONLY)						
			ANALYTIC	NON-ANALYTIC **	W	B	O	0	I	II	III	IV	88	UNK
<b>HEAD AND NECK</b>	59	4.0	55	4	27	23	5	0	15	12	7	19	2	0
LARYNX	15	1.1	13	2	2	10	1	0	4	1	0	7	1	0
TONGUE	14	0.9	14	0	6	6	2	0	8	2	1	3	0	0
OROPHARYNX	9	0.6	9	0	5	4	0	0	1	3	2	3	0	0
OTHER ORAL CAVITIES	8	0.6	6	2	4	1	1	0	1	1	1	3	0	0
SALIVARY GLAND	6	0.4	6	0	4	1	1	0	1	2	3	0	0	0
FLOOR OF MOUTH	2	0.1	2	0	2	0	0	0	0	1	0	1	0	0
NASAL CAVITY/SINUSES	2	0.1	2	0	1	1	0	0	0	0	0	1	1	0
TONSILS	2	0.1	2	0	2	0	0	0	0	1	0	1	0	0
HYPOPHARYNX	1	0.1	1	0	1	0	0	0	0	1	0	0	0	0
<b>NERVOUS SYSTEM</b>	53	3.6	47	6	31	13	3	0	0	0	0	0	47	0
BRAIN/SPINAL CORD	39	2.7	38	1	29	7	2	0	0	0	0	0	38	0
MENINGES	11	0.7	9	2	2	6	1	0	0	0	0	0	9	0
OTHER PARTS OF CNS	3	0.2	0	3	0	0	0	0	0	0	0	0	0	0
<b>LYMPHOMA</b>	44	3.1	38	6	22	7	9	0	10	4	7	17	0	0
NON-HODGKIN'S	33	2.3	28	5	17	4	7	0	7	1	4	16	0	0
HODGKIN'S	11	0.8	10	1	5	3	2	0	3	3	3	1	0	0
<b>SKIN</b>	33	2.3	17	16	17	0	0	1	12	1	2	1	0	0
MELANOMA	16	1.1	16	0	16	0	0	1	12	1	1	1	0	0
OTHER SKIN CANCER	17	1.2	1	16	1	0	0	0	0	0	1	0	0	0
<b>FEMALE GENITAL</b>	30	2.1	22	8	6	9	7	0	15	3	3	1	0	0
CORPUS UTERI	13	0.9	12	1	3	4	5	0	7	2	2	1	0	0
OVARY	12	0.8	6	6	2	3	1	0	4	1	1	0	0	0
CERVIX UTERI	4	0.3	3	1	1	1	1	0	3	0	0	0	0	0
VAGINA	1	0.1	1	0	0	1	0	0	1	0	0	0	0	0
<b>SOFT TISSUES</b>	26	1.8	21	5	13	6	2	0	6	6	6	2	1	0
<b>UNKNOWN</b>	19	1.3	18	1	12	5	1	0	0	0	0	0	18	0
<b>BONE</b>	3	0.2	2	1	1	1	0	0	1	0	0	0	1	0
<b>ALL SITES</b>	1453	100	1328	125	647	500	181	156	454	273	155	128	153	9

**NOTE:**

\* Analytic – initially diagnosed at GW Hospital and all or part of first course of therapy at GW Hospital or case diagnosed elsewhere and all or part of first course of therapy at GW Hospital.

\*\* Non-Analytic case – initially diagnosed and treated

elsewhere, referred to GW Hospital for recurrence or subsequent therapy and physician office cases.

\*\*\* Race – W=White; B=Black; O=Other

AJCC staging at diagnosis is either clinical or pathological staging.

**TABLE 2A:** 2010-12 ANALYTIC CASES – THE MOST FREQUENT CANCERS IN MALE

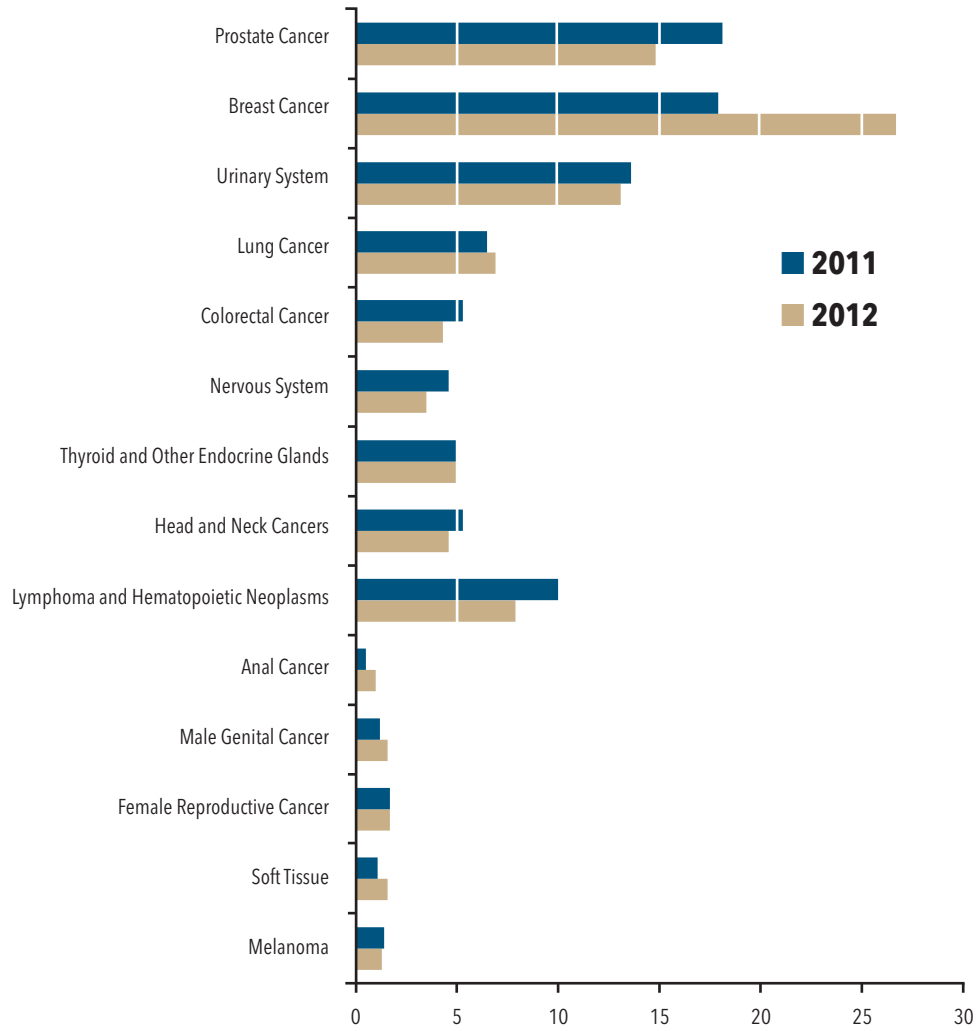
PRIMARY SITE	2012 CASES (%)				2011 CASES (%)				2010 CASES (%)			
	GWUH		ACS		GWUH		ACS		GWUH		ACS	
PROSTATE	196	(30.5)	241,740	(28.0)	243	(34.6)	240,890	(29.0)	310	(40.0)	217,730	(28.0)
KIDNEY/RENAL PELVIS	71	(11.1)	40,250	(5.0)	76	(10.8)	37,120	(5.0)	83	(10.7)	35,370	(4.0)
LUNG	46	(7.2)	116,470	(14.0)	44	(6.3)	115,060	(14.0)	63	(8.0)	116,750	(15.0)
URINARY BLADDER	41	(6.4)	55,600	(7.0)	37	(5.3)	52,020	(6.0)	52	(6.7)	52,760	(7.0)
COLON-RECTUM	34	(5.3)	73,420	(9.0)	39	(5.5)	71,850	(9.0)	34	(4.4)	72,090	(9.0)
LEUKEMIA/OTHER	38	(5.9)	26,830	(3.0)	50	(7.1)	25,320	(3.0)	31	(4.0)	24,690	(3.0)
BRAIN/ OTHER CNS	22	(3.4)	12,630	(2.0)	28	(4.0)	12,260	(2.0)	29	(3.7)	11,980	(2.0)
NON-HODGKIN'S LYMPHOMA	23	(3.6)	38,160	(4.0)	19	(2.7)	36,060	(4.0)	20	(2.6)	35,380	(4.0)
THYROID	20	(3.1)	14,600	(2.0)	16	(2.3)	11,470	(1.0)	16	(2.1)	11,890	(2.0)
LARYNX	11	(1.7)	9,840	(1.0)	10	(1.4)	10,160	(1.0)	10	(1.3)	10,110	(1.0)
STOMACH	10	(1.6)	13,020	(2.0)	14	(2.0)	13,120	(2.0)	14	(1.8)	12,730	(2.0)
TESTIS	19	(3.0)	8,590	(1.0)	13	(1.8)	8,290	(1.0)	18	(2.3)	8,480	(1.0)
OTHERS	111	(17.2)	197,020	(22.0)	114	(16.2)	188,680	(23.0)	96	(12.4)	179,660	(22.0)
<b>TOTAL</b>	<b>642</b>	<b>(100.0)</b>	<b>848,170</b>	<b>(100.0)</b>	<b>703</b>	<b>(100.0)</b>	<b>822,300</b>	<b>(100.0)</b>	<b>776</b>	<b>(100.0)</b>	<b>789,620</b>	<b>(100.0)</b>

**TABLE 2B:** 2010-12 ANALYTIC CASES – THE MOST FREQUENT CANCERS IN FEMALE

PRIMARY SITE	2012 CASES (%)				2011 CASES (%)				2010 CASES (%)			
	GWUH		ACS		GWUH		ACS		GWUH		ACS	
BREAST	353	(51.5)	226,870	(29.0)	239	(37.9)	230,480	(30.0)	256	(39.7)	207,090	(28.0)
LUNG	45	(6.6)	109,690	(14.0)	42	(6.7)	106,070	(14.0)	65	(10.0)	105,770	(14.0)
KIDNEY/ RENAL PELVIS	31	(4.5)	24,520	(3.0)	42	(6.7)	23,800	(3.0)	39	(6.0)	22,870	(3.0)
THYROID	34	(5.0)	43,210	(5.0)	42	(6.7)	36,550	(5.0)	40	(6.2)	33,930	(5.0)
LEUKEMIA/OTHER	28	(4.1)	20,320	(3.0)	39	(6.2)	19,280	(3.0)	15	(2.3)	18,360	(2.0)
BRAIN/ OTHER CNS	16	(2.3)	10,280	(1.0)	32	(5.1)	10,080	(1.0)	30	(4.7)	10,040	(1.0)
COLON/RECTUM	22	(3.2)	70,040	(9.0)	32	(5.1)	69,360	(9.0)	48	(7.4)	70,480	(10.0)
URINARY BLADDER	23	(3.4)	17,910	(2.0)	24	(3.8)	17,230	(2.0)	33	(5.1)	17,770	(2.0)
CORPUS UTERINE	12	(1.7)	47,130	(6.0)	15	(2.4)	46,470	(6.0)	15	(2.3)	43,470	(6.0)
NON-HODGKIN'S LYMPHOMA	15	(2.2)	31,970	(4.0)	11	(1.7)	30,300	(4.0)	16	(2.5)	30,160	(4.0)
STOMACH	10	(1.4)	8,300	(1.0)	10	(1.6)	8,400	(1.0)	9	(1.4)	8,270	(1.0)
PANCREAS	9	(1.3)	21,830	(3.0)	10	(1.6)	21,980	(3.0)	9	(1.4)	21,770	(3.0)
OTHERS	88	(12.8)	15,8670	(20.0)	92	(14.5)	154,370	(19.0)	71	(11.0)	154,710	(21.0)
<b>TOTAL</b>	<b>686</b>	<b>(100.0)</b>	<b>790,740</b>	<b>(100.0)</b>	<b>630</b>	<b>(100.0)</b>	<b>774,370</b>	<b>(100.0)</b>	<b>646</b>	<b>(100.0)</b>	<b>739,940</b>	<b>(100.0)</b>



**FIGURE 2: TREND FOR NEW ANALYTIC CASES BY ANATOMIC SITES AND YEAR OF ADMISSION**





RESOURCES & SUPPORT

## RESOURCES AND SUPPORT

### The George Washington University and GW Cancer Institute Resources

The George Washington University Hospital  
900 23rd St., N.W.  
Washington, D.C. 20037  
(202) 715-4000  
1-888-4GW-DOCS  
www.gwhospital.com

The George Washington University  
Medical Faculty Associates  
2150 Pennsylvania Ave., N.W.  
Washington, D.C. 20037  
(202) 741-3000  
www.gwdocs.com

The George Washington Cancer Institute  
2030 M St., N.W., 4th Floor  
Washington, D.C. 20036  
(202) 994-2449  
www.gwcancerinstitute.org

The Dr. Cyrus and Myrtle Katzen  
Cancer Research Center  
2150 Pennsylvania Ave., N.W., Suite 1-200  
Washington, D.C. 20037  
(202) 741-2250  
www.katzcancer.org

Breast Care Center  
22300 M Street, NW, 8th Floor  
Washington, DC 20037  
(202) 741-3270

Cancer Education and Outreach  
2030 M St., N.W., Suite 4003  
Washington, D.C. 20036  
(202) 994-2449

Cancer Prevention and Control  
2030 M St., N.W., Suite 4003  
Washington, D.C. 20036  
(202) 994-2449

Cancer Registry  
900 23rd St., N.W.  
Washington, D.C. 20037  
(202) 715-4383

Clinical Oncology  
2150 Pennsylvania Ave., N.W., 3rd Floor  
Washington, D.C. 20037  
(202) 741-2210

Hematology/Oncology  
2150 Pennsylvania Ave., N.W., 3rd Floor  
Washington, D.C. 20037  
(202) 741-2210

Pain Management Center  
2131 K St., N.W.  
Washington, D.C. 20037  
(202) 715-4599

Pathology  
900 23rd St., N.W.  
Washington, D.C. 20037  
(202) 715-4665

Patient Navigation Program  
2030 M St., N.W., 4th Floor  
Washington, D.C. 20036  
(202) 994-2214

Mobile Mammography Program  
2150 Pennsylvania Ave., N.W.,  
D.C. Level  
Washington, D.C. 20037  
(202) 741-3020  
Radiation Oncology  
725-A 23rd St., N.W.  
(at the corner of H and 23rd streets)  
Washington, D.C. 20037  
(202) 715-5120

Radiology  
900 23rd St., N.W.  
Washington, D.C. 20037  
(202) 715-5183

Rehabilitation Services  
2131 K St., N.W.  
Washington, D.C. 20037  
(202) 715-5655

Social Work Services  
2150 Pennsylvania Ave., N.W., 3rd Floor  
Washington, D.C. 20037  
(202) 741-2218, (202) 994-2449

Surgery  
2150 Pennsylvania Ave., N.W., 6th Floor  
Washington, D.C. 20037  
(202) 741-3200

## RESOURCES AND SUPPORT

*The Dr. Cyrus and Myrtle Katzen Cancer Research Center (Katzen Center) supports many holistic and wellness services for cancer patients and their families that are free of charge and open to the community.*

Medical Faculty Associates (M.F.A.)  
2150 Pennsylvania Ave., N.W.  
Washington, D.C. 20037

Active Treatment (all cancers)  
*Open to patients currently undergoing treatment.*  
Wednesdays, 12:30–1:30 pm  
MFA, Katzen Cancer Center Board Room  
Facilitator: Jennifer Bires, L.I.C.S.W.,  
(202) 741-2218

Advanced Cancer Support Group for Women  
*This group focuses on sharing common concerns, fears, and coping strategies.*  
Third Thursday of every month, 5:30–6:30 p.m.  
MFA, First floor, Room 1-402  
Facilitators: Jennifer Bires, L.I.C.S.W.  
(202) 741-2218 and Monica Dreyer (202) 741-3153  
mdreyer@mfa.gwu.edu

Breast Cancer Support Group  
*A post-treatment support group.*  
First Tuesday of every month, 6–7:30 pm  
MFA, Katzen Cancer Center Board Room  
Facilitators: Elizabeth Hatcher, (202) 994-2215

Breast Cancer Support Group  
for Women in Active Treatment  
*For women undergoing treatment for breast cancer.*  
Meets Mondays, 6–7 pm.  
MFA, Room 1-402.  
Facilitator: Monica Dreyer, (202) 741-3153,  
mdreyer@mfa.gwu.edu

For more information about these support groups and other supportive services:

Jennifer Bires, L.I.C.S.W.  
(202) 741-2218  
jbires@mfa.gwu.edu

This report is produced by the George Washington University School of Medicine and Health Sciences' Department of Communications and Marketing. Cancer registry data compiled and prepared by Hong Nguyen, M.P.H., C.T.R., Nhiha Than, and Patricia Morgan with the George Washington University Hospital.

Caregivers' Support Group  
Third Tuesday of every month, 12:30–1:45 pm  
MFA, Katzen Cancer Center Board Room  
Facilitator: Jennifer Bires, L.I.C.S.W.,  
(202) 741-2218

Kids Club: Support Group for Children  
Whose Parent/Grandparent Has Cancer  
*This group is open to children ages 6-13 with sessions focused around art activities. A separate group will be held at the same time for parents.*  
Second Thursday of every month, 6 pm–7:30 pm  
MFA, First floor, Room 1-402  
Facilitator: Jennifer Bires, L.I.C.S.W.,  
(202) 741-2218, or Monica Dreyer, (202) 741-3153

Multiple Myeloma Group  
*This group is open to Multiple Myeloma patients, survivors, and caregivers. Meetings feature speakers as well as education and support. Please call to register.*  
Fourth Thursday of every month, 5:30–6:30 pm  
MFA, Katzen Cancer Center Board Room  
Facilitator: Jennifer Bires, L.I.C.S.W.,  
(202) 741-2218

Prostate Cancer Educational Group  
*The prostate cancer support group is open to patients, survivors, and caregivers.*  
Second Tuesday of every month, 6–7:30 pm  
MFA, Katzen Cancer Center Board Room  
Facilitator: Eva Ruiz, (202) 677-6099

Young Adult Group  
*Young adults (19–39 years of age) who are currently in treatment or are cancer survivors may attend this discussion group facilitated by two social workers.*  
Third Sunday of every month, 5–6:30 pm  
The Charles E. Smith Center  
600 22nd St., N.W.,  
Facilitator: Adrienne Dern,  
adrienne@smithcenter.org

Washington, D.C., Metropolitan Area  
Brain Tumor Support Group  
*This group offers support for brain tumor patients, survivors, and caregivers.*  
First Thursday of every month, 6:30–8:30 pm  
MFA, Katzen Cancer Center Board Room  
Facilitators: Jennifer Bires, L.I.C.S.W.,  
(202) 741-2218, and Ashley Varner, L.C.S.W.

*Parking is provided for all groups. For information about upcoming support groups and events, visit [smhs.gwu.edu/katzencancer/events](https://smhs.gwu.edu/katzencancer/events).*

[cancerinstitute.org](http://cancerinstitute.org)

RGW Cancer Institute

## 2012-13 CANCER COMMITTEE MEMBERS

Robert S. Siegel, M.D.  
*Director/Hematology Oncology  
Chair/GW Cancer Program*

Christine B. Teal, M.D., F.A.C.S.  
*Director/Breast Care Center  
Chief of Breast Surgery  
Physician Liaison/GW Cancer Program*

Jeanny Aragon-Ching, M.D.  
*Hematology Oncology*

Jennifer Bires, L.I.C.S.W.  
*Social Work/Cancer Support Groups*

Robin Brannon, M.S., R.D., C.S.O.  
*Manager/GW Hospital –  
Clinical Nutrition Dietitian*

Rachel F. Brem, M.D.  
*Director/Breast Imaging and Intervention*

Mandi Pratt-Chapman, M.A.  
*Associate Director/GWCI  
Community Programs*

May Chin, M.D.  
*Anesthesiology and Pain Medicine*

Michele Chiriaco, R.H.I.A., C.C.S.  
*GW Hospital/HIM Director*

April Dukes  
*American Cancer Society*

Khaled El-Shami, M.D.  
*Hematology Oncology*

Heidi Floden, Pharm.D.  
*Katzen Cancer Research Center*

Meggan Florell, M.S., P.T.  
*Director, Rehabilitation Services/GW Hospital*

Nicole Giller, R.D., C.S.O.  
*GW Hospital/Clinical Nutrition Dietitian*

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