



HonorHealth Scottsdale Osborn Medical Center Cancer Program

2016 ANNUAL REPORT

HONORHEALTH[®]



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OF SURGEONS

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Dear Colleague,

I'm pleased to present the 2016 annual report of the HonorHealth Scottsdale Osborn Medical Center Cancer Program. The report highlights the growing presence of Osborn's cancer program within the HonorHealth system.

To deliver the best cancer care, HonorHealth's cancer program in 2016:

- Grew its outreach programs.
- Continued its efforts to gather a talented team of physicians, nurses and technologists.
- Continued to rely on its Quality of Life support personnel.

Matching talent with resources to expand capabilities across the entire HonorHealth network continues, allowing tomorrow's cures to become today's treatments for everyone.

Unifying HonorHealth's cancer mission across the entire health system focuses on standardizing cancer care while creating new opportunities for patients. These new opportunities include gaining access to lifesaving drugs and to groundbreaking clinical trials at the HonorHealth Research Institute.

Coordinated efforts to integrate the oncology service line throughout HonorHealth started last year by deploying a highly sophisticated cancer registry database to capture valuable clinical information and outcomes. The resulting actionable data will allow the HonorHealth cancer program to:

- Create individual and practice-level reporting metrics against state and national registries.
- Provide clinical performance statistics to drive milestones for best-in-class care.
- Create new research opportunities to enhance patient treatments and outcomes.

In addition, HonorHealth leadership has engaged physicians in the formation of Tumor Site Strategy Groups. The groups bring together doctors, medical research physicians and key HonorHealth administrative leaders to create a Valleywide cancer program that benefits patients and their families.

The Tumor Site Strategy Groups already have enhanced the practice of care and oncology service offerings by implementing new programs and procedures ranging from:

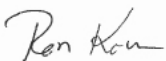
- Needle-less localization of breast cancer.
- Community standards for screening mammography.
- Institutional recognition of Shea's breast cancer care as a Center of Excellence by the National Accreditation Program for Breast Cancer.
- Early detection research of pancreatic cancer for patients at risk for this deadly disease.

The Tumor Site Strategy Groups also provide a venue to discuss the best in patient care through weekly treatment planning meetings. Also, to include each HonorHealth physician in the circle of care, the primary-care physician network can continue to receive education through symposia on breast, pancreas and colorectal cancers.

The journey to improved and expanded cancer care continues through the recently formed HonorHealth Virginia G. Piper Cancer Care Network and the partnership with the Arizona Center for Cancer Care oncologists. The network's mission? To offer cure, care and compassion to all of our patients.

Together with our partners from all cancer programs in the Valley, HonorHealth is ready to tackle the new frontiers of tomorrow. Stay tuned!

Cordially,



Ronald Korn, MD
Medical Director, HonorHealth Oncology Service Line

Community outreach at HonorHealth is very active. In 2016, cancer programs alone numbered 1,205 with 28,887 participants plus exposure to an additional 176,000 people at Parada Del Sol (114,000), Making Strides Against Cancer Walk (18,000), Light the Night Walk for Leukemia/Lymphoma Society (7,500) and a television interview with our oncology nutritionist (10,500).

Community Outreach Education and Prevention Resource Events:

- Monthly Lunch and Learn: Sedentary Lifestyle; Clinical Trials; Gastroenterology; What is Palliative Care; Skin Cancer; Cancer Survivorship; Vaccines for Hep C, HIV; Ovarian/Gynecology
- East Valley Women
- Central Phoenix Women
- West Valley Women
- Artist of Scottsdale
- Sunflower Health Fair
- Parada Del Sol
- Valley Life Golf Tournament
- Oral Cancer Walk
- Skin Cancer Presentation ASU
- Pillow Talk: Gynecological Effects Post Surgery
- We Walk for the Cure - Breast Cancer Awareness
- Annual Block Out Cancer Skin Screening Event
- Pain Fest America Art Event for Cancer Survivors
- National Cancer Survivorship Day
- Westminster Skin Cancer Education
- Prostate Cancer Awareness Walk
- Brighton Power of Pink
- Scottsdale Leadership Programs for Education, Risk, and Prevention
- Annual Ladies' Night for Cancer
- AT Still's University Benefit Fair
- Annual Learn and Living with Cancer Event
- Cox Communications Wellness Fair
- PayPal Educational Resource Table
- Debbie Gaby Breast Cancer Event
- Phoenix Undy National Cancer Walk
- Making Strides Against Cancer Walk
- Light the Night Walk for Leukemia / Lymphoma Society
- Annual Celebration of Lights Event

Bone Marrow Drives:

- Glendale High School
- HonorHealth Shea Campus
- Arizona Eye Surgery Center
- Anasazi Elementary School

Tina's Treasures Events:

- Sweet Spring Event
- Beauty in Bloom Event
- Facing Forward Classes / Bimonthly

Oncology Nurse Navigation:

- Patient Navigation Services / Appointments
- Mastectomy Education Classes

Community Outreach Events:

- Parada Del Sol Parade
- Parada Del Sol Rodeo
- American Cancer Society Making Strides Walk
- Debby Gaby Event for Breast Cancer
- National Cancer Survivorship Day Celebration
- Pancreatic Event
- Bone Marrow Transplant Donor Drives
- Tina's Treasures Fall Event & Luncheon
- Tina's Treasures American Breast Care Event

Cancer Exercise Rehab:

- Exercise Physiologist appointments
- 1:1 New Patient Appointments

Community Outreach Nutrition Programs Included:

- Eating for Life
- 1:1 Follow-up Nutritional Appointments
- Presentation Mayo Cancer Conference
- Eat Great Live Well radio interview

- Channel 5 Interview: Healthy or Not Snacks
- Osteoporosis Support Group
- CVS Caremark Fit Club Sugar Talk
- Atria Sierra Point: The MIND Diet for HonorHealth Longevity program
- Healthy Happy Hour Maravilla: Milk and Milk Alternatives
- X-Women Support Group Meeting
- Colon Cancer Alliance National Nutrition Webinar
- CVS / Caremark Lunch N' Learn
- Healthy Brain Expo Foothills Community Center
- Fountain Hills Mens' Discussion Group
- Gals on the Run AZ
- Channel 12 Midday Live Interview
- Green Living Simple Solutions Summit

Body, Mind and Spirit Program:

- Reiki
- Yoga
- Nidra
- Tai Chi
- Qi Gong
- Healing Art
- Crafts
- Mahjong
- Jin Shin Jyutsu
- Meditation
- Writing through Wellness

Support Groups:

- Breast Cancer Support Group
- Colo-Rectal Cancer Support Group
- Caregiver and Family Support Group
- GYN Cancer Support Group
- Living with Lymphedema
- Pancreatic Support Group
- SPOHNC Support Group

Physician Committee Members	2016
Patrick Donovan	Medical Oncology
Elena Sibley	General Surgery
Luci Chen	Radiation Oncology
Sharon Gburek	Pathology
Mark Kuo	Radiology

Non-Physician Members	2016
Matt Schneider	Cancer Program Administration
Ben Clonts	Oncology Nursing
Aman Bahia	Genetic Counseling
Gerrie Jakobs	Oncology Social Worker
Nancy McCutcheon	Community Outreach
Allison Young	Oncology Nurse Clinician
Marlene Miller	Performance/Quality Improvement
Terri Taylor	Nutrition Services
Terry Thomas	Cancer Registry
Joyce Schaffer	Clinical Trials
Kathy Manske	Palliative Care

Analytic Cases - Age by Gender (2015 data)

Age	Male	Female	Total
1-9	0	0	0
10-19	0	1	1
20-29	4	2	6
30-39	7	11	18
40-49	10	27	37
50-59	40	63	103
60-69	75	77	152
70-79	90	68	158
80-89	52	55	107
90-99	5	5	10
> 100	0	0	0
Total	283	309	592

Ten Most Common Analytic Cancers Per Gender (2015 data)

Male Top Ten Sites	Incidence	Percentage Of Total Male Cases (n=264)
Lung	51	19.3%
Melanoma	30	11.4%
Colorectal	29	11.0%
Non-Hodgkin Lymphoma	20	7.6%
Pharynx	18	6.8%
Prostate	15	5.7%
Brain / CNS	13	4.9%
Unknown	12	4.6%
Benign Brain	7	2.7%
Pancreas	7	2.7%
Total	202	76.7%

Female Top Ten Sites	Incidence	Percentage Of Total Female Cases (n=297)
Breast	113	38.1%
Lung	41	13.8%
Colorectal	26	8.8%
Lymphoma	18	6.1%
Benign Brain / CNS	14	4.7%
Unknown	10	3.4%
Eye / Orbit	10	3.4%
Melanoma	9	3.0%
Brain / CNS	9	3.0%
Thyroid	8	2.7%
Total	258	86.9%

Patients in their seventies accounted for 26.7% of all accessions in 2015. Patients in their fifties and in their sixties accounted for 17.4% and 25.7%, respectively. Collectively, patients of ages 50-79 accounted for 69.8% of all 2015 cases.

2016 Cancer Conferences

There were 43 general tumor boards held at Osborn in 2016 with 101 cases presented, 99 (98%) prospectively. Physician attendance averaged 8.7; non-physician 2.6.

There were an additional 112 tumor boards held at Shea in 2016 (39 general, 23 breast, 4 endocrine, 3 sarcoma and 43 pancreatic). There were 415 cases presented (118 general, 181 breast, 11 endocrine, 15 sarcoma, and 90 pancreatic). Of them 411 (99%) were prospective presentations.

Physician attendance at Shea tumor boards averaged 9.4; 7.5 at general, 12.5 at breast, 9 at endocrine, 6 at sarcoma, and 9.8 at pancreatic.

Non-physician attendance at Shea tumor boards averaged 8.6; 8.4 at general, 8.7 at breast, 2 at endocrine, 2 at sarcoma, and 9.7 at pancreatic.

HonorHealth Scottsdale Osborn Medical Center Cancer Program Practice Profile Reports Summary for Breast, Colon, Gastric, Non-Small Cell Lung Cancer and Rectal Cancers

Performance rates from the Commission on Cancer National Cancer Database for 2014 diagnoses comparison among Scottsdale Osborn Medical Center, the upper limit of the 95% Confidence Interval, all Arizona accredited programs, and all CoC accredited programs.

Per Standard 4.4/4.5, the facility's upper limit of the 95% Confidence Interval for each performance measure must equal or exceed the corresponding performance rate specified by the CoC.

Breast Cancer Measures

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
Image or palpation-guided needle biopsy (core or FNA) is performed to establish diagnosis of breast cancer (80%)	50	80.0	91.1	83.1	90.1
Radiation therapy is considered or administered following any mastectomy within 1 year (365 days) of diagnosis of breast cancer for women with > 4 positive regional lymph nodes (90%)	2	50	100	72.3	83.5

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
Radiation therapy is administered within 1 year of diagnosis for women under age 70 receiving breast-conserving surgery for breast cancer (90%)	13	76.9	99.8	82.8	90.7
Tamoxifen or third-generation aromatase inhibitor is considered or administered within 1 year of diagnosis for women with AJCC T1c N0 M0, or Stage II or III ERA and/or PRA positive breast cancer (90%)	29	79.3	94.0	82.4	90.1

Colon Cancer Measure

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
At least 12 regional lymph nodes are removed and pathologically examined for resected colon cancer (85%)	15	100	100	90.8	91.0

Gastric Cancer Measure

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
At least 15 regional lymph nodes are removed and pathologically examined for resected gastric cancer (80%)	1	100	100	No data	57.1

Non-Small Cell Lung Cancer Measures

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
Systemic chemotherapy is administered within 4 months to day preoperatively or day of surgery to 6 months postoperatively, or it is recommended for surgically resected cases with pathologic lymph node-positive (pN1) and (pN2) NSCLC (85%)	2	100	100	No data	89.3
Surgery is not the first treatment for N2, M0 NSCLC cases. (85%)	4	100	100	83.7	91.8

Rectal Cancer Measure

Measure	Osborn Case #s	Osborn %	Osborn 95% C.I.	AZ Accredited programs	CoC Accredited Programs
Radiation therapy is considered or administered within 6 months of diagnosis for patients under the age of 80 with clinical or pathologic AJCC T4N0M0 or Stage III receiving surgical resection for rectal cancer (85%)	0	No data	No data	79.5	85.9

*Measure not presently required (breast conservation surgery rate, gastric LN resection, NSCLC chemo or LN resection, or rectal radiation).

The 95% Confidence Interval (C.I.) is a statistical tool for interpreting comparison data. In simplest terms, it means that there is a 95% chance that the true average value is contained within the specified range. The Commission on Cancer specifies that the upper limit of the 95% C.I. of a facility's measure should meet or exceed either the published standard's expected percentage or the actual percentage of all CoC accredited programs, collectively.

HonorHealth creates a new cancer care network

In 2017, HonorHealth expanded its cancer care options across the Valley through the creation of the HonorHealth Virginia G. Piper Cancer Care Network.

As part of this expansion, both the medical oncology and gynecologic oncology locations of the Arizona Center for Cancer Care became HonorHealth outpatient facilities. The practices' cancer research program also joined HonorHealth.

The Arizona Center for Cancer Care's physicians are remaining independent. They provide the oversight and clinical care for patients through a services agreement with HonorHealth. Approximately 100 employees of Arizona Center for Cancer Care transitioned to become HonorHealth employees.

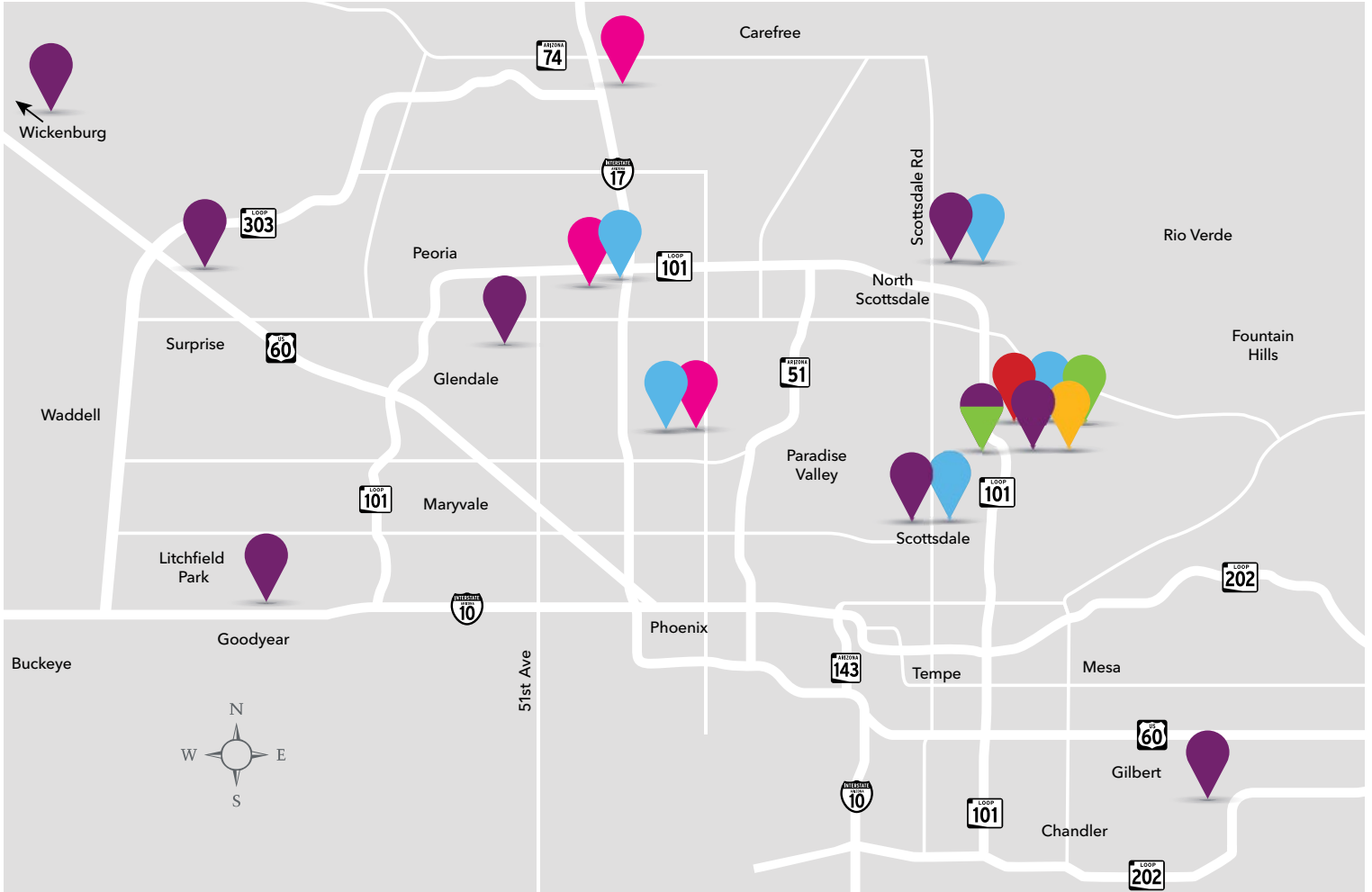
The HonorHealth Virginia G. Piper Cancer Care Network is bringing together Valley cancer experts to collaborate, create and adopt efforts to deliver quality care for patients and their families. The network provides cancer care in HonorHealth's five hospitals, the Virginia G. Piper Cancer Center and multiple outpatient cancer care locations across the Valley, adding convenience for patients.

"With this new network, we'll bring the combined strengths of outpatient cancer care together with the resources of inpatient care and research," said Christopher Biggs, MD, Arizona Center for Cancer Care medical director. "If we can deliver the highest quality cancer treatments to a diverse geographic region, we can take those greatest strengths of a cancer center to the patient, nearer to their homes."

The HonorHealth Virginia G. Piper Cancer Care Network will:

- Allow cancer specialists, primary care physicians and HonorHealth to collaborate to identify cancer stages and create treatment plans with streamlined delivery and integrated communication. The team approach will give patients the most appropriate therapies without delays, duplicative efforts or unnecessary expense.
- Serve the needs of cancer patients and their families in their journey through diagnosis, treatment and survivorship.
- Improve the coordinated delivery of care by physicians, nurses and others who treat patients with cancer.
- Create a Valley cancer research powerhouse through the combination of the clinical research offerings of the HonorHealth Research Institute and Pinnacle Oncology Hematology, a division of Arizona Center for Cancer Care. The combined research offerings will include Phase 1, 2 and 3 clinical trials that help bring better drugs to more patients, faster.
- Include nine outpatient locations across the Valley, plus two additional ones to be built adjacent to HonorHealth John C. Lincoln Medical Center and HonorHealth Deer Valley Medical Center.

"What this means for our patients is a comprehensive range of cancer diagnostic and treatment services that expands across the Valley under one local, highly coordinated umbrella of care," said Gary Baker, HonorHealth senior vice president who oversees cancer services. "This expansion is the natural evolution of the successful cancer care program at HonorHealth, which has redefined cancer care in the Valley over the last 15 years at our Virginia G. Piper Cancer Center."



Outpatient cancer centers

- 10320 W. McDowell Rd., #8025, Avondale, AZ 85392
- 14674 W. Mountain View Blvd., #105, Surprise, AZ 85374
- 519 Rose Lane, Wickenburg, AZ 85390
- 5750 W. Thunderbird Rd., #C300, Glendale, AZ 85306
- 21803 N. Scottsdale Rd., #110, Scottsdale, AZ 85255
- 9055 E. Del Camino Dr., #100, Scottsdale, AZ 85258
- 3501 N. Scottsdale Rd., #300, Scottsdale, AZ 85251
- 3645 S. Rome St., #209, Gilbert, AZ 85297
- 10460 N. 92nd St., Suite 303, Scottsdale, AZ 85258

Blood cancers program

- 10460 N. 92nd St., Suite 200, Scottsdale, AZ 85258

Lymphedema treatment

- 10460 N. 92nd St., Suite 300, Scottsdale, AZ 85258

Breast Health and Research Center

- 19646 N. 27th Ave., Suite 205, Phoenix, AZ 85027
- 9250 N. Third St., Suite 1002, Phoenix, AZ 85020
- 33423 N. 32nd Ave., Phoenix, AZ 85085

Clinical trials

- HonorHealth Research Institute
10510 N. 92nd St., Suite 200, Scottsdale, AZ 85258
- 9055 E. Del Camino Dr., #100, Scottsdale, AZ 85258

Hospitals

- HonorHealth Deer Valley Medical Center
19829 N. 27th Ave., Phoenix, AZ 85027
- HonorHealth John C. Lincoln Medical Center
250 E. Dunlap Ave., Phoenix, AZ 85020
- HonorHealth Scottsdale Thompson Peak Medical Center
7400 E. Thompson Peak Pkwy., Scottsdale, AZ 85255
- HonorHealth Scottsdale Shea Medical Center
9003 E. Shea Blvd., Scottsdale, AZ 85260
- HonorHealth Scottsdale Osborn Medical Center
7400 E. Osborn Rd., Scottsdale, AZ 85251

HonorHealth Scottsdale Osborn Medical Center

Primary Site Table - 2015 Analytic Cases

Site	Patient Status		Gender		AJCC Stage							Total	% Total
	Alive	Deceased	Male	Female	0	I	II	III	IV	NA	UNK		
Breast Female	107	2	0	109	25	45	29	5	4	0	1	109	25.12
Lung	30	18	25	23	1	14	5	9	19	0	0	48	11.06
Melanoma	38	1	30	9	6	21	7	2	1	0	2	39	8.99
Colon	25	5	18	12	0	5	9	7	6	0	3	30	6.91
Brain & Nervous System	16	5	12	9	NA	NA	NA	NA	NA	21	NA	21	4.84
Non-Hodgkin Lymphoma	17	4	11	10	0	3	2	3	12	1	0	21	4.84
Benign Brain and CNS	19	2	7	14	NA	NA	NA	NA	NA	21	NA	21	4.84
Eye and Orbit	15	1	6	10	0	2	0	1	1	2	10	16	3.69
Unknown Sites	7	7	9	5	NA	NA	NA	NA	NA	14	NA	14	3.23
Thyroid	12	0	5	7	0	6	0	1	2	1	2	12	2.76
Rectum	8	3	3	8	1	2	1	4	2	0	1	11	2.53
Myeloid and Monocytic Leukemia	7	3	5	5	NA	NA	NA	NA	NA	10	NA	10	2.30
Lip Oral Cavity Pharynx	9	0	8	1	1	2	1	0	4	0	1	9	2.07
Pancreas	7	2	5	4	0	1	4	0	4	0	0	9	2.07
Prostate	6	1	7	0	0	1	3	0	3	0	0	7	1.61
Stomach	4	2	4	2	0	3	0	0	2	0	1	6	1.38
Bladder	2	3	4	1	1	1	1	0	1	0	1	5	1.15
Multiple Myeloma	3	2	3	2	NA	NA	NA	NA	NA	5	NA	5	1.15
Esophagus	4	0	4	0	0	1	0	2	1	0	0	4	0.92
Anus	4	0	1	3	0	1	1	2	0	0	0	4	0.92
Corpus Uteri	2	1	0	3	0	1	0	1	0	0	1	3	0.69
Hodgkin Lymphoma	1	1	1	1	0	0	0	1	1	0	0	2	0.46
Lymphoid Leukemia	2	0	1	1	NA	NA	NA	NA	NA	1	NA	2	0.46
Liver	2	0	2	0	0	1	0	0	0	0	1	2	0.46
Small Intestine	2	0	2	0	0	0	0	2	0	0	0	2	0.46
Bones and Joints	1	0	1	0	0	0	0	0	1	0	0	1	0.23
Sarcoma	1	0	1	0	0	0	0	0	1	0	0	1	0.23
Breast Male	1	0	1	0	0	1	0	0	0	0	0	1	0.23
Ill-Defined Sites	1	0	1	0	NA	NA	NA	NA	NA	1	NA	1	0.23
Kidney	1	0	1	0	0	1	0	0	0	0	0	1	0.23
TOTALS	354	63	178	239	35	113	63	40	65	76	25	417	100.00

HonorHealth Scottsdale Shea Medical Center

Primary Site Table - 2015 Analytic Cases

Site	Patient Status		Gender		AJCC Stage							Total	% Total
	Alive	Deceased	Male	Female	0	I	II	III	IV	NA	UNK		
Breast Female	454	1	0	455	99	189	128	28	5	0	6	455	27.49
Prostate	224	4	228	0	0	87	88	32	16	0	5	228	13.78
Thyroid	122	0	28	94	0	81	8	10	6	0	5	122	7.37
Bladder	104	7	86	25	58	21	22	4	6	0	0	111	6.71
Colon	93	4	50	47	5	22	38	16	14	0	2	97	5.86
Melanoma	69	2	42	29	11	40	7	5	3	0	5	71	4.29
Kidney	64	2	43	23	0	45	4	9	2	0	6	66	3.99
Lung	48	11	25	34	0	27	4	11	15	0	2	59	3.56
Pancreas	27	20	26	21	0	7	21	4	14	0	1	47	2.84
Corpus Uteri	39	4	0	43	0	25	3	8	0	1	6	43	2.60
Non-Hodgkin Lymphoma	34	4	14	24	0	9	8	5	16	0	0	38	2.30
Multiple Myeloma	33	3	19	17	NA	NA	NA	NA	NA	36	NA	36	2.18
Rectum	29	1	16	14	0	7	13	7	2	0	1	30	1.81
Myeloid & Monocytic Leukemia	18	8	17	9	NA	NA	NA	NA	NA	26	NA	26	1.57
Sarcoma	22	3	16	9	0	2	9	8	1	0	5	25	1.51
Lip Oral Cavity Pharynx	23	1	16	8	0	7	2	5	7	0	3	24	1.45
Unknown Sites	13	7	7	13	NA	NA	NA	NA	NA	20	NA	20	1.21
Ovary	13	3	0	16	0	5	1	6	2	0	2	16	0.97
Lymphoid Leukemia	10	2	6	6	NA	NA	NA	NA	NA	12	NA	12	0.73
Stomach	8	4	6	6	0	3	2	2	4	0	1	12	0.73
Cervix	9	1	0	10	0	2	0	6	2	0	0	10	0.60
Larynx	8	0	8	0	2	3	0	2	0	0	1	8	0.48
Liver	6	2	5	3	0	4	0	1	1	1	1	8	0.48
Small Intestine	7	0	5	2	0	1	0	4	1	0	1	7	0.42
Anus	6	0	3	3	0	1	1	1	0	2	1	6	0.36
Esophagus	3	2	4	1	0	1	1	1	2	0	0	5	0.30
Bones and Joints	3	2	4	1	0	2	2	0	1	0	0	5	0.30
Breast Male	2	0	2	0	0	2	0	0	0	0	0	2	0.12
Benign Brain and CNS	1	1	1	1	NA	NA	NA	NA	NA	2	NA	2	0.12
Ill-Defined Sites	1	0	0	1	NA	NA	NA	NA	NA	1	NA	1	0.06
Hodgkin Lymphoma	1	0	1	0	0	0	1	0	0	0	0	1	0.06
TOTALS	1494	99	678	915	175	593	363	175	120	101	66	1593	100.00



Scottsdale Osborn Medical Center Cancer Program
7400 E. Osborn Road, Scottsdale, AZ 85251
480-882-4000