

2017 Annual Report

SALEM HEALTH CANCER INSTITUTE



Salem Health Cancer Institute continues to offer the latest and highest quality cancer care to our patients in the Mid-Willamette Valley. We remain on the leading edge of lung cancer screening in Oregon. Our focus on fostering key partnerships brings specialists together to combine efforts and expertise, ensuring comprehensive, collaborative and state-of-the-art cancer treatment and care to the communities we serve.

2017 saw the retirement of Bev Smith, Director of Cancer Services since 2014, and Dr. Nancy Boutin, Cancer Institute Medical Director since 2007. Their leadership and direction set the stage for what is to come in the years ahead. Also in 2017, key physician and administrative leaders from throughout our cancer care continuum formed the Cancer Leadership Council convening monthly to help steer the direction of the cancer program.

Achieving positive outcomes with our patients and their families would not be possible without a collaborative effort. Primary and specialty care providers throughout our community work together to help us deliver the best care. We are excited to share with you our accomplishments and look forward to another great year ahead.

Nancy Reyes-Molyneux, MD
Cancer Institute Medical Director

Josh Franke
Oncology Director

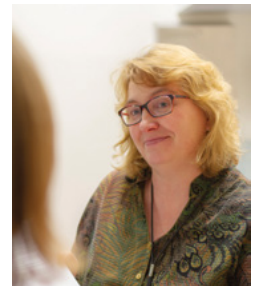
Supporting our patients

Our support services team helps patients and families navigate cancer diagnoses, treatment and beyond. In 2017, the team received more than 1,400 referrals and had more than 3,500 office visits and phone contacts with patients and families.

We provide coordinated care with access to:

- **Cancer nurse navigators** who help patients and families solve problems, access resources and better understand their diagnosis.
- A **social worker** who provides counseling, coping strategies and support.
- A **registered dietitian** who helps patients optimize nutrition and combat treatment-related side effects.
- **Support groups and exercise classes.**
- **Financial assistance resources** for prescriptions, treatment and transportation.
- A **lending library** provided by Salem Health's Community Health Education Center and the American Cancer Society.

Salem Health now offers **genetic counseling and testing** for hereditary cancer. Certified nurse specialist Nancy Ledbetter meets with patients and families for this service to help improve early detection and inform treatment toward the best possible outcomes for our patients. For more information, please contact 503-814-1365.



Survivorship: Patient story

Terri Brown was diagnosed with non-small cell lung cancer in August 2015. She was referred to Salem Health Cancer Institute where she immediately started chemotherapy and radiation therapy. However, the cancer spread, and Terri was given only two months to live. As a last option, Terri started a clinical trial testing a new immunotherapy — and today she's a cancer survivor!

"I am eternally grateful to Dr. Strother, my primary care team and everyone at Salem Health Cancer Institute," Terri said at our Shine a Light on Lung Cancer event in November 2017. "It's important for me to give other people hope."

We're proud to care for our patients like Terri, and continue to support patients on their path to living well after cancer. In 2017, we worked to improve our survivorship program with the development of an electronic survivorship care plan. The care plan is now generated by the Cancer Registry and includes a treatment summary, follow-up guidelines and an explanation of potential long-term effects of treatment. Survivorship continues to be a top priority to ensure we are addressing the needs of our patients beyond treatment.



Physician engagement and collaboration

Tumor site committees

The Breast Committee is a model for multidisciplinary teamwork focusing on quality, communication, clinical outcomes and patient satisfaction. This group met eight times in 2017 and focused on an improvement project in collaboration with Salem Health Rehabilitation to decrease the wait times for physical therapy appointments following breast cancer surgeries.

The committee identified when patients should be seen as a priority, such as when range of motion issues impact treatment. A patient education handout was also created about the importance of therapy after surgery. The project improved patient wait times for physical therapy appointments by three days.

Thoracic and GI committees did not meet in 2017. Discussions to reestablish these groups are planned for fall 2018.

Cancer Conference

A group of physicians and support service staff meet weekly for Cancer Conference. They review prospective cases and collaborate on treatment planning that covers the full spectrum of patient care. Specialties represented weekly include medical oncology, radiation oncology, pathology, surgery and imaging. Support services represented include genetics, palliative care, clinical trials, nurse navigation and social work. In 2017, 226 cases were discussed at Cancer Conference. All physicians are invited to present a case and/or attend to listen when their patient's case is presented. Cancer Conference is held Thursdays at 7 a.m.

Cancer symposiums

Salem Health continues to provide educational symposiums for local physicians, fostering a collaboration between cancer specialists and primary care providers. In 2017, we reached nearly 90 participants through three symposiums covering breast cancer issues, HPV-associated oropharyngeal cancer and optimal treatment for early stage prostate cancer.

Physician leadership

Nancy Reyes-Molyneux, MD
Cancer Institute Medical Director
Radiation Oncology
Radiation Therapy Consultants

Eric Laro, MD
Cancer Committee Chair
General Surgery
Doctors' Clinic

Beth Dayton, MD
Breast Committee Chair
General Surgery
Oregon Oncology Specialists

John Strother, MD
Knight Cancer Institute Affiliation
Medical Director
Medical Oncology
Oregon Oncology Specialists

Natasha Tiffany, MD
Cancer Liaison Physician
Medical Oncology
Oregon Oncology Specialists

Matthew Kang, MD
Radiation Oncology Medical Director
Radiation Therapy Consultants

Elizabeth Munro, MD
Gynecologic Oncology
Medical Director
OHSU Gynecologic Oncology



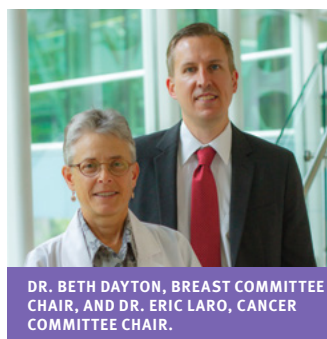
Radiation oncology

Radiation oncology welcomed William Chance, MD, MS, in July 2017. Dr. Chance joins Drs. Nancy Reyes-Molyneux, Matthew Kang and Samuel Wang in serving the community with personalized treatment plans that deliver radiation with maximum precision and care. 2017 also saw the retirement of Dr. Arnella Hennig who dedicated 25 years of service to Radiation Oncology at Salem Health.

The radiation oncologists are a team of specialists, working together with board-certified physicists, certified medical dosimetrists, radiation therapists, oncology certified nurses and support staff to bring a patient-friendly approach to a highly technical field.

Salem Health continues to provide leading-edge technology in radiation oncology:

- Stereotactic radiosurgery
- Stereotactic body radiation therapy
- 4D CT with respiratory gating
- Volumetric modulated arc therapy
- Intensity modulated radiation therapy
- Image guided radiation therapy
- Calypso real-time tracking system
- Dedicated high-dose-rate brachytherapy suite with in-room CBCT capability



National Accreditation

Salem Hospital is accredited by the American College of Surgeons Commission on Cancer and National Accreditation Program for Breast Centers. CoC accreditation is nationally recognized by the National Cancer Institute, American Cancer Society, The Joint Commission, National Quality

Forum and Centers for Medicare and Medicaid Services. Completing the rigorous accreditation process is a voluntary commitment to deliver high-quality, evidence-based cancer care. The commitment to establish this standard creates the framework to deliver patient-centered cancer care along a continuum — from screening and prevention to diagnosis and treatment to rehabilitation, support and surveillance.



Volume and outcomes | Salem Health Cancer Institute Cancer Registry

Case distribution

Primary Site	New cases* seen in 2016	New cases* Estimated for 2017	Total of cases in registry 2000-2017
Breast	353	376	6,155
Colorectal	143	159	2,724
Lung	259	235	4,007
Lymphoma/Leukemia	137	136	2,393
Prostate	217	169	4,658
Other/Undefined	809	752	12,026
Total	1,918	1,827	31,963

The Cancer Registry at Salem Health is one of the oldest in the country, with data on cancer trends and treatment experience dating back to 1960. Our Registry remains one of the busiest in the state with over 68,300 cases in the database to date and approximately 1,600 to 2,000 new cases added each year.

*New Cases: Total number of new cases seen at Salem Health that utilized services – includes all Class of Cases.

Cancer Program Practice Profile Reports

Performance rates, 2015*

Breast cancer - Select measures	n=	Salem Cancer Institute	All CoC-approved programs**	All Oregon
Radiation therapy is administered within one year (365 days) of diagnosis for women under the age of 70 receiving breast conservation surgery for breast cancer. [BCS/RT]	84	94.0%	92.3%	92.1%
Tamoxifen or third generation aromatase inhibitor is recommended or administered within one year (365 days) of diagnosis for women with AJCC T1c or Stage IB - III hormone receptor positive breast cancer. [HT]	134	94.8%	93.1%	95.2%
Radiation therapy is recommended or administered following any mastectomy within one year (365 days) of diagnosis of breast cancer for women with ≥ 4 positive regional lymph nodes. [MAST/RT]	8	100.0%	89.8%	92.7%
Image or palpation-guided needle biopsy to the primary site is performed to establish diagnosis of breast cancer. [nBx]	196	97.4%	92.5%	89.5%
Breast conservation surgery rate for women with AJCC clinical stage 0, I, or II breast cancer. [BCS]	179	70.4%	66.3%	65.4%
Combination chemotherapy is recommended or administered within four months (120 days) of diagnosis for women under 70 with AJCC T1c No, or Stage IB - III hormone receptor negative breast cancer. [MAC]	10	90.0%	93.2%	97.5%
Colon cancer - Select measures				
At least 12 regional lymph nodes are removed and pathologically examined for resected colon cancer. [12RLN]	59	100.0%	92.2%	94.7%
Adjuvant chemotherapy is recommended or administered within four months (120 days) of diagnosis for patients under the age of 80 with AJCC Stage III (lymph node positive) colon cancer. [ACT]	13	92.3%	89.1%	94.5%
Rectal cancer - Select measures				
Preoperative chemo and radiation are administered for clinical AJCC T3No, T4No, or Stage III; or postoperative chemo and radiation are administered within 180 days of diagnosis for clinical AJCC T1-T2No with pathologic AJCC T3No, T4No, or Stage III; or treatment is recommended for patients under the age of 80 receiving resection for rectal cancer. [REC/RT]	7	100.0%	88.0%	95.4%

*Latest performance data available nationally.

**Rates computed based on data directly reported to the NCDB using specifications endorsed by the National Quality Forum.

Cancer care specialists

Gastroenterology

Falguny Bhavan, MD
Richard Brandes, MD
Nabil Choueiri, MD
Makkalearn Em, MD
Lawrence Gates Jr., MD
Katherine Hoda, MD
Patricia Kao, MD
Robert Ponec, MD
Edward Schultheiss, MD
Christian Speer, MD
Srinivasan Subramanian, MD

Cancer surgery Including breast, GI and soft tissue

Catherine Boulay, MD
Glena Caton, MD
Christine Clarke, MD
G. Andrew Clarke, MD
Beth Dayton, MD
Kristopher Dozier, MD
Jonathan Durning, MD
Juan Esguerra, MD
Ronald Jaecks, MD
Jiyoun (Liz) Kim, MD
Eric Laro, MD
Hsinchen Lin, MD
Patricia Luckerth, MD
Gloria Marlowe, MD
Everett Mozell, MD
Rajan Nair, MD
Alison Smith, MD

Chest cancer surgery

Nervin Fanous, MD
Katherine Jones, MD
Eric Laro, MD
Everett Mozell, MD

Gynecologic oncology

Amanda Bruegl, MD
Koenraad De Geest, MD
Meagan McFarland, FNP
Melissa Moffitt, MD
Elizabeth Munro, MD

Medical oncology

Janelle Meyer, MD
Charles Petrunin, MD
William Pierce, MD, PhD
Renee Prins, MD
Frank Santoli, MD
John Strother, MD
Natasha Tiffany, MD

Neurosurgery

Maurice Collada, MD
Valerie Coon, MD
Charles Hatchette, MD
Julie York, MD

Otolaryngology

Joseph Allan, MD
John Donovan, MD
Jared Hiebert, MD
Bruce Johnson, MD
Gary Nishioka, MD
Clark Thompson, MD

Palliative care

James Lowry, MD
Julie Hinson, AGNP-C, OCN, ACHPN
Eriko Onishi, MD
Alexander Ritter, MD
Rachel Wixson, FNP-C

Pathology

Cindy Hsieh, MD
Amariek Jensen-de la Cruz, MD
Mark Magilner, MD
Clark McDonald, MD
Pamela Smith, MD
Penny Vanderveer, MD
Daryl Vogel, MD, PhD
Debbie Wu, MD

Plastic surgery

Edwin Austin, MD
Dustin Christiansen, MD
Dann Leonard, MD
Keith Neaman, MD

Pulmonology / Critical care

Fayez Bader, MD
Cody Benthin, MD
Kamran Firoozi, MD
Martin Johnson, MD
Steven Marvel, MD
Nimeshkumar Mehta, MD
Kavan Ramachandran, MD
Alistair Scriven, MD
Kovid Trivedi, MD
Samar Vanaik, MD

Radiation oncology

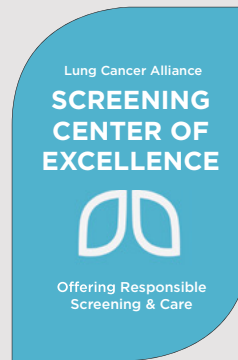
William Chance, MD
Matthew Kang, MD
Nancy Reyes-Molyneux, MD
Samuel Wang, MD, PhD

Radiology

M. Brett Abbott, MD
Scott Ambruster, MD
John Bradshaw, MD
S. Leon Burrows, MD
Richard Collins, MD
Thomas Cullen, MD
Travis Fromwiller, MD
Michael George, MD
Sidney Green, MD
Nicholas Hanson, MD
David Harrison, MD
Yama Kharoti, MD
Kyu Kim, MD
Jose Novoa, MD
Michael Pass, MD
Jared Sadler, MD
Kathryn Snyder, MD
Sean Stack, MD

Urology

Jaffer Bashey, MD
David Elkins, MD
Timothy Fleming, MD
Anjana Ganeshappa, MD
Andrea Hatchette, MD
Mark Mhoon, MD
Bradley Warner, MD



Lung cancer screening program

Salem Health launched a lung cancer screening program in 2013 to help catch the disease in its early stages and save lives. The program has been successful screening a total of 3,058 patients between January 2013 and December 2017. As a result of these screenings, 37 lung cancers have been diagnosed with 65 percent being diagnosed early at stages I and II.

2017 Data

- 1,099 lung screenings
- 578 were baseline (initial) screens
- 521 were annual (subsequent) screens
- 5 patients were diagnosed with lung cancer, one during an annual screen

Inpatient oncology

The Inpatient Medical-Surgical Oncology unit has 14 oncology certified nurses making up 25 percent of its nursing staff. In addition, nurses hold certifications in medical-surgical nursing and hospice and palliative care. In 2017, the oncology unit gained approval for a resource nurse in response to the increased demand for chemotherapy administration hospital-wide. Additionally, the inpatient oncology unit sponsored the Cancer Crushers Relay For Life team.

Infusion clinic

In 2017 the infusion clinic at Salem Health had 12,022 patient visits that included (but were not limited to):

- 3,441 patient visits for antibiotics
- 406 chemotherapy regimens
- 1,489 episodes of IV hydration
- 1,910 units of red blood cells
- 287 units of platelets
- 745 iron infusions
- 354 IVIG infusions
- 503 Infliximab infusions

Salem Health Cancer Institute

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