



# Hematology/Oncology

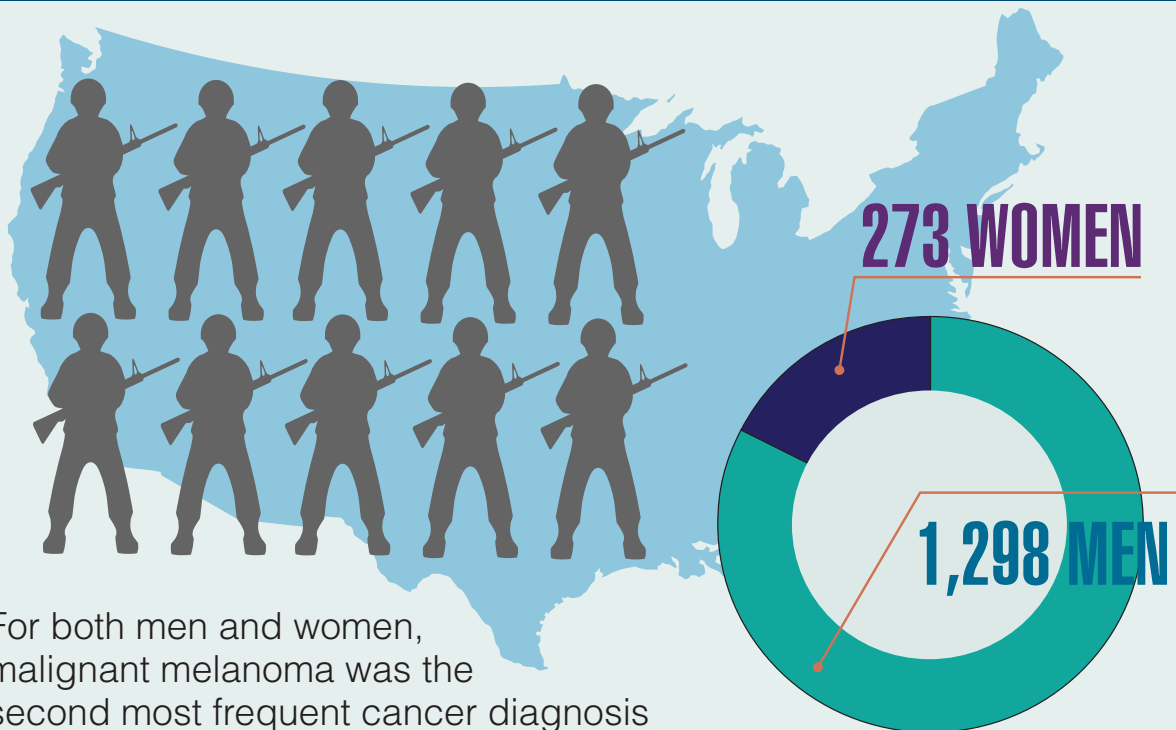
Cancer research is a high priority for the DoD and especially for the VA. Researchers in both agencies played an important role in the early stages of the Cancer Moonshot. As part of this initiative, the VA, DoD, and National Cancer Institute joined forces in the Applied Proteogenomics Organizational Learning and Outcomes (APOLLO) project to develop a system to quickly identify unique targets and pathways of cancer for better interventions.

The VA also will provide access to the Million Veteran Program database, and > 20 years of electronic health records data for analysis using the U.S. Department of Energy's advanced computer systems. The enhanced computational infrastructure provided by the departments will facilitate new studies of cancer genomics. The research will begin

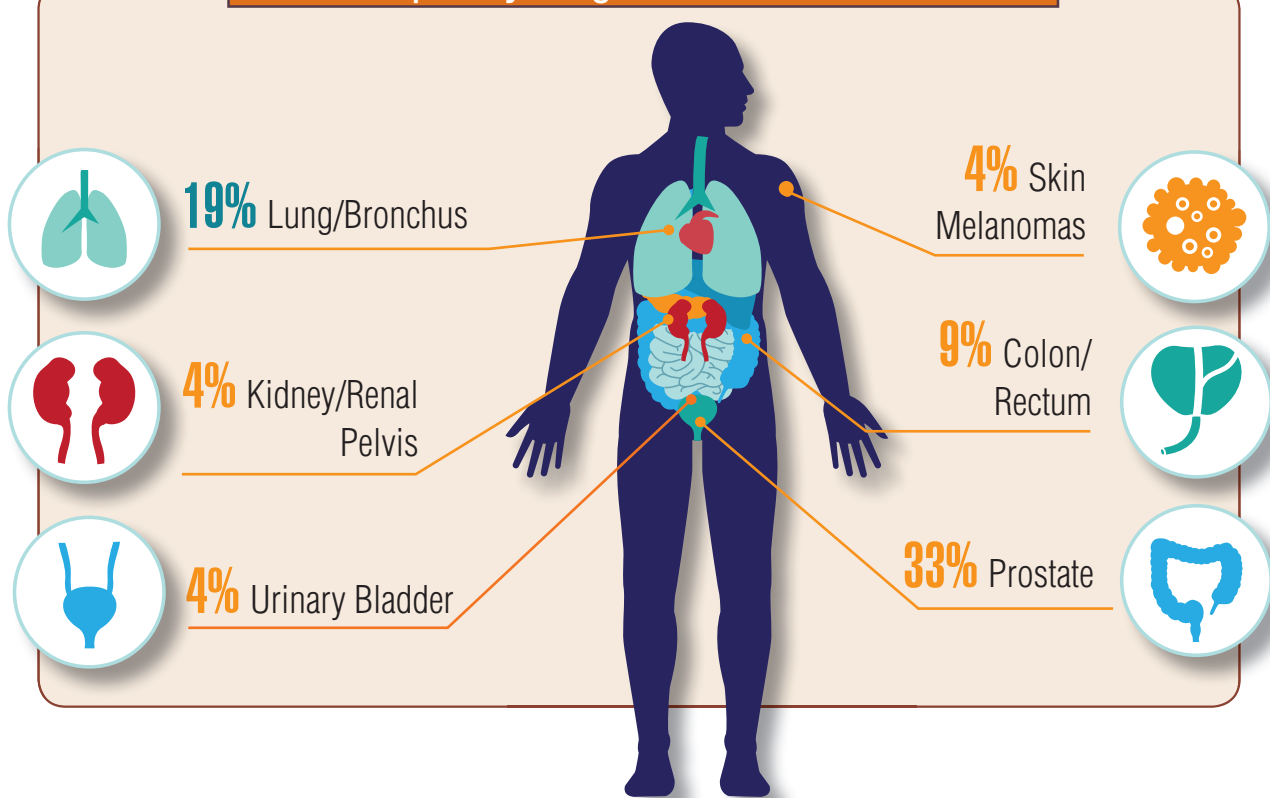
with prostate cancer, and it is hoped that the project will help researchers distinguish between those prostate cancers that require aggressive management and the more benign cancers that are less likely to progress.

According to the latest VA budget, its researchers are conducting a broad array of research on cancers common in the veteran population, including prostate, lung, colorectal, bladder, kidney, pancreatic, skin, esophageal, and female-specific cancers (such as breast and cervical cancer), as well as lymphomas and melanomas. For example, one study is focused on improving palliative care for patients with advanced cancer, and another will enroll 50,000 veterans to compare colorectal cancer screening strategies.

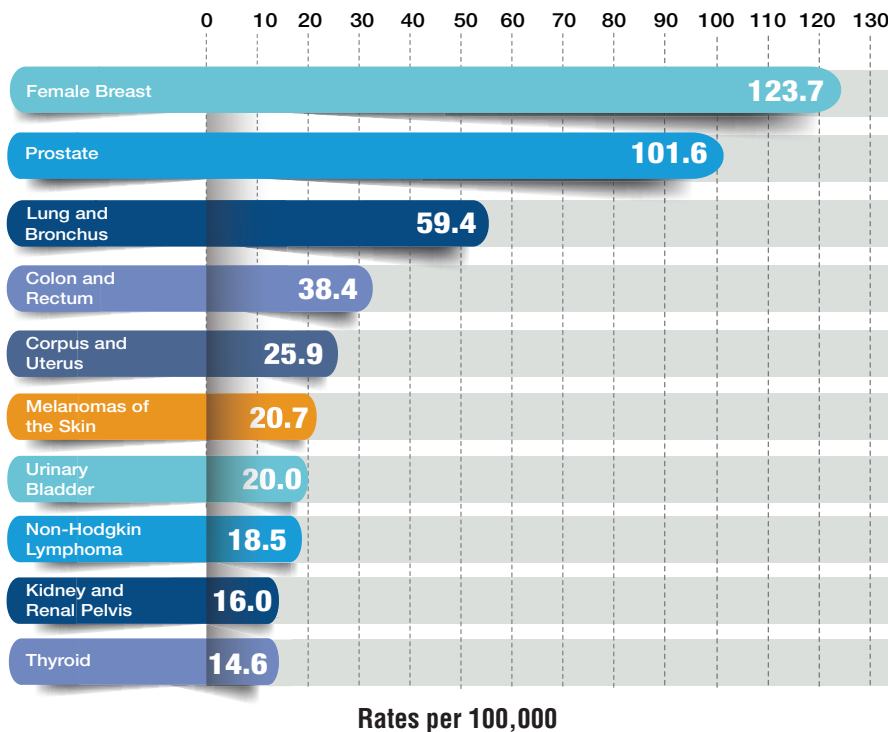
## Malignant Melanoma Cases in the U.S. Armed Forces, 2005-2014<sup>1</sup>



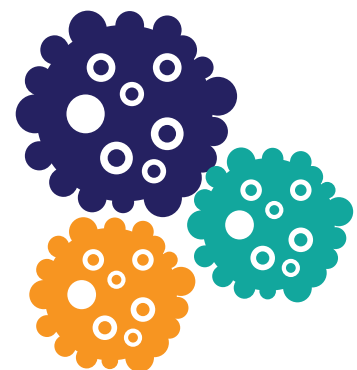
## Most Frequently Diagnosed Cancers in the VA<sup>2</sup>



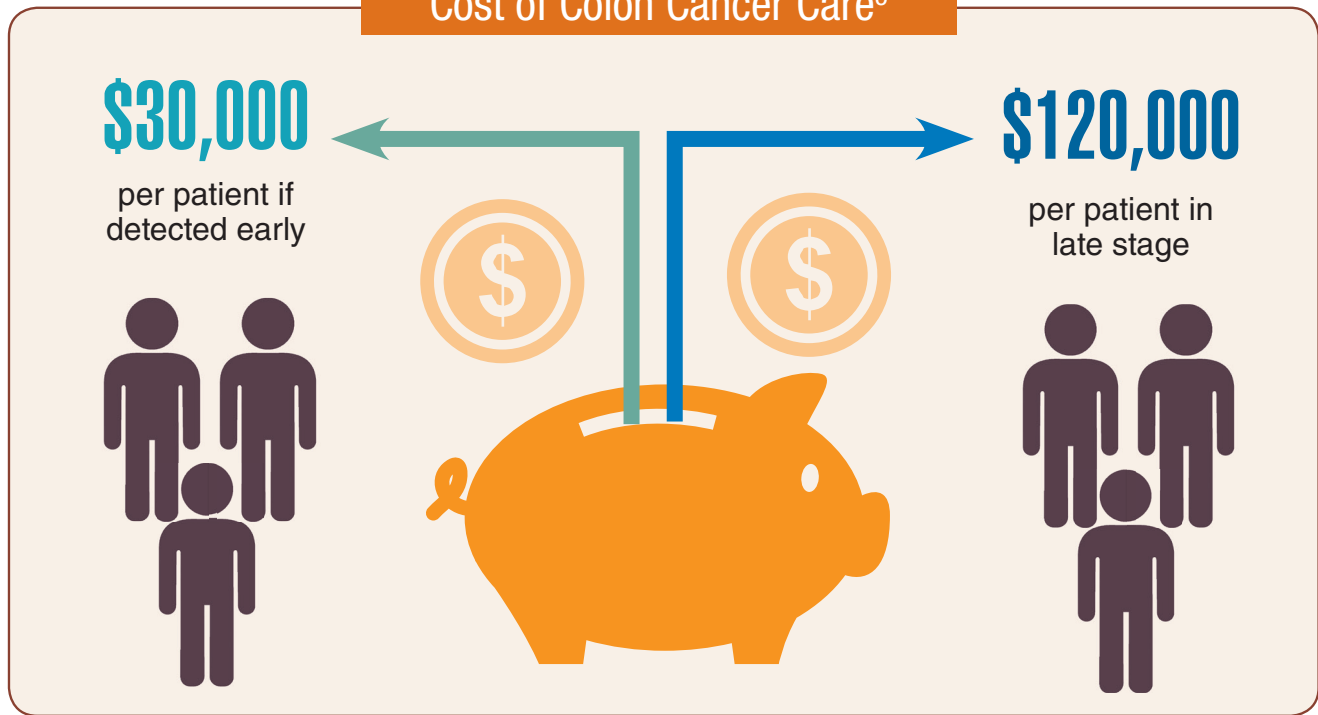
## Top 10 Cancer Sites, Male/Female, All Races, 2013<sup>3</sup>



ABOUT  
**175,000**  
patients with  
cancer are cared  
for at the VA  
annually<sup>4</sup>



## Cost of Colon Cancer Care<sup>5</sup>



From 1945 to 1962, **195,000 service members** served in Hiroshima or Nagasaki, Japan, and about **210,000** participated in atmospheric nuclear weapons testing<sup>6,7</sup>



For those veterans, the VA assumes that the following conditions are related to exposure:

- 17 different types of cancer
- Leukemia (except chronic lymphocytic leukemia)
- Lymphomas (except Hodgkin disease)
- Multiple myeloma

## Incidence and Survival<sup>8</sup>

Types of Cancer	Incidence per 100,000	% surviving 5 years
Colon and Rectal	40.1	64.9
Kidney and Renal	15.6	74.1
Leukemia	13.7	60.6
Lung and Bronchus	55.8	18.1
Melanoma	22.3	91.7
Myeloma	6.6	49.6
Non-Hodgkin Lymphoma	19.5	71.0
Prostate	119.8	98.6

# Advances in HEMATOLOGY and ONCOLOGY



A Brief History of AVAHO

Open Colorectal Cancer Clinical Trials

Treating Patients With Localized Prostate Cancer Roundtable Discussion

Clinicians Partner With Engineers to Improve Timeliness of Cancer Care

How TRICARE Beneficiaries View Cancer Screening

Using Genetic Testing to Expand the Diagnosis of MEN1

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