Guidebook

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*When presenting this information, please keep in mind: All data pertains to the VICC Catchment Area, which includes 123 counties encompassing the entire state of TN, 23 counties in western KY, and 5 counties in northern AL.
## Demographics

<table>
<thead>
<tr>
<th></th>
<th>Catchment Area</th>
<th>United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female</td>
<td>51%</td>
<td>51%</td>
</tr>
<tr>
<td>Rural Residents</td>
<td>25%</td>
<td>19%</td>
</tr>
<tr>
<td>Age 65+</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>Less Than 18</td>
<td>23%</td>
<td>23%</td>
</tr>
<tr>
<td>Median Income</td>
<td></td>
<td>$49,600</td>
</tr>
<tr>
<td>High School or Less</td>
<td></td>
<td>$57,700</td>
</tr>
<tr>
<td>Education</td>
<td></td>
<td>31%</td>
</tr>
<tr>
<td>Poverty</td>
<td></td>
<td>16%</td>
</tr>
<tr>
<td>Foreign Born</td>
<td></td>
<td>5%</td>
</tr>
</tbody>
</table>

2019

VANDERBILT-INGRAM CANCER CENTER
USA

POPULATION

321.0 MILLION

2019
**RACE AND ETHNICITY**

- White: 75%
- Hispanic: 16%
- Black: 5%
- Asian: Other: 2+ Races

**Catchment Area**

Population: 7.9 MILLION

2019
**RACE AND ETHNICITY**

- **White**
- **Hispanic**
- **Black**
- **Asian**
- **Other**
- **2+ Races**

**Urban Counties**

→ **Population**

5.9 million

2019
Rural Areas

⇒ POPULATION

⇒ 2.0 MILLION

2019
Nashville
DAVIDSON COUNTY
POPULATION
654,187
2019
Memphis

SHELBY COUNTY

POPULATION

937,847

2019
Knoxville

KNOX COUNTY

POPULATION

452,286

2019
Bowling Green

WARREN COUNTY

POPULATION

123,824

2019
RACE AND ETHNICITY

- White: 65%
- Hispanic: 5%
- Black: 24%
- Asian: Other: 2+
- Races:

Huntsville

MADISON COUNTY

POPULATION

353,213

2019
Cancer Burden: Most Common Cancers
In the Catchment Area

- Prostate
- Lung
- Colorectal
- Urinary Bladder
- Melanoma of the Skin

- Female Breast
- Lung
- Colorectal
- Corpus and Uterus
- Melanoma of the Skin

Vanderbilt-Ingram Cancer Center
Cancer Burden: Most Common Deaths from Cancer

In the Catchment Area

- Lung
- Colorectal
- Prostate
- Pancreas
- Liver

LEFT - Lung
LEFT - Female Breast
LEFT - Colorectal
LEFT - Pancreas
LEFT - Ovary

2019
Cancers with Higher Mortality
In the Catchment Area vs the U.S.

- Lung
- Colon & Rectum
- Cervix
- Oropharynx
- Melanoma of the Skin

2019

Vanderbilt-Ingram Cancer Center
Cancers with Rising Mortality Trends
In the Catchment Area

ALSO RISING IN THE USA

- UTERUS
- LIVER

NOT RISING IN THE U.S.
- Esophagus
- Melanoma of the Skin
- Pancreas
- Urinary Bladder
Catchment Area Life Expectancy

- **United States**: 78.6
- **Tennessee**: 76.1
- **Kentucky**: 75.4
- **Alabama**: 75.4

![Graph showing life expectancy comparisons between United States, Tennessee, Kentucky, and Alabama.]
Catchment Area Life Expectancy

<table>
<thead>
<tr>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Years of Age</td>
</tr>
<tr>
<td>71 - 73</td>
</tr>
<tr>
<td>74</td>
</tr>
<tr>
<td>75</td>
</tr>
<tr>
<td>76 - 77</td>
</tr>
<tr>
<td>78 - 82</td>
</tr>
<tr>
<td>Rural</td>
</tr>
</tbody>
</table>

2019
Racial and Ethnic Disparities
In the Catchment Area

Blacks Higher than Whites

- Breast
- Cervix
- Colon & Rectum
- Kidney
- Pancreas
- Prostate
- Stomach
- Uterus

Hispanics Higher than Non-Hispanic Whites

- Cervix
- Childhood
- Stomach

2019
Overall Cancer Incidence

**INCIDENCE RATE:**
- 391.40 - 426.50
- 426.51 - 459.50
- 459.51 - 477.70
- 477.71 - 502.00
- 502.01 - 544.30
- Rural

2019
Overall Cancer Mortality

MORTALITY RATE:

- 127.40 - 168.00
- 168.01 - 185.80
- 185.81 - 200.20
- 200.21 - 218.10
- 218.11 - 254.80

Rural
Lung Cancer Incidence

INCIDENCE RATE:
- 42.10 - 62.90
- 62.91 - 77.10
- 77.11 - 87.30
- 87.31 - 100.30
- 100.31 - 116.10

Rural

VANDERBILT-INGRAM CANCER CENTER

2019
Lung Cancer Mortality

MORTALITY RATE:

- 29.10 - 36.00
- 36.01 - 56.40
- 56.41 - 66.90
- 66.91 - 75.90
- 75.91 - 88.10

Circle: Rural

2019
Late Stage Breast Cancer Incidence

LATE STAGE INCIDENCE RATE:

- Data Suppressed
- 28.95 - 34.10
- 34.11 - 39.20
- 39.21 - 43.50
- 43.51 - 47.80
- 47.81 - 57.90
- Rural

VANDERBILT-INGRAM CANCER CENTER

2019
Breast Cancer Mortality

MORTALITY RATE:

- Data Suppressed
- 13.60 - 16.60
- 16.61 - 20.50
- 20.51 - 23.80
- 23.81 - 28.20
- 28.21 - 35.10
- Rural
Prostate Cancer Incidence

INCIDENCE RATE:

- Data Suppressed
- 61.01 - 80.70
- 80.71 - 97.30
- 97.31 - 111.10
- 111.11 - 129.10
- 129.11 - 152.60
- Rural

2019
Prostate Cancer Mortality

MORTALITY RATE:

- Data Suppressed
- 11.90 - 14.10
- 14.11 - 18.90
- 18.91 - 22.00
- 22.01 - 25.80
- 25.81 - 30.40

Rural
Late Stage Colorectal Cancer Incidence

INCIDENCE RATE:

- Data Suppressed
- 16.01 - 20.30
- 20.31 - 23.30
- 23.31 - 26.20
- 26.21 - 31.10
- 31.11 - 44.00
- Rural

2019
Colorectal Cancer Mortality

MORTALITY RATE:

- Data Suppressed
- 8.50 - 12.20
- 12.21 - 16.10
- 16.11 - 19.60
- 19.61 - 23.10
- 23.11 - 30.60
- Rural
Pancreatic Cancer Incidence

INCIDENCE RATE:

- Data Suppressed
- 6.70 - 10.20
- 10.21 - 12.60
- 12.61 - 14.70
- 14.71 - 17.10
- 17.11 - 20.90
- Rural

2019
Have a Regular Healthcare Provider

United States
- Overall: 77%
- White: 76%
- Black: 79%
- Hispanic: 60%

Healthy People 2020 Goal: 84%

Key:
- Higher % = Better
- Lower % = Better
Could Not See A Health Care Provider Because of Cost

- United States: 13%
- Catchment Area:
  - Overall: 18%
  - White: 13%
  - Black: 15%
  - Hispanic: 25%

No Healthy People 2020 Goal Established

Key:
- Higher % = Better
- Lower % = Better

2019
Adult Cigarette Smoking

United States
- Overall

Catchment Area
- Overall
- White
- Black
- Hispanic

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

Healthy People 2020 Goal: 12%
Youth Cigarette Smoking

United States
- Overall: 9%
- White: 13%
- Black: 2%
- Hispanic: 7%

Healthy People 2020 Goal: 16%

Higher % = Better
Lower % = Better
Youth e-Cigarette Use

United States
- Overall: 13%

Catchment Area
- Overall: 13%
- White: 13%
- Black: 13%
- Hispanic: 3%

No Healthy People 2020 Goal Established

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

2019
Adult Obesity

Healthy People 2020 Goal: 31%

Key

United States
- Overall

Catchment Area
- Overall
- White
- Black
- Hispanic

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better
Adult Physical Activity

Key

United States
- Overall

Catchment Area
- Overall
- White
- Black
- Hispanic

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

Healthy People 2020 Goal: 20%
→ Youth Obesity

United States
- Overall

Catchment Area
- Overall
- White
- Black
- Hispanic

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

Healthy People 2020 Goal: 16%
Youth Physical Activity

- United States:
  - Overall: 26%
- Catchment Area:
  - Overall: 26%
  - White: 27%
  - Black: 20%
  - Hispanic: 23%

Healthy People 2020 Goal: 26%

Key:
- Higher % = Better
- Lower % = Better

VANDERBILT-INGRAM CANCER CENTER

2019
Self-Rated Health Status: Fair or Poor

- **United States**
  - Overall: 18% (Goal: 20%)
- **Catchment Area**
  - Overall: 21%
  - White: 22%
  - Black: 22%
  - Hispanic: 10%

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

2019
HPV Vaccination Coverage
Ages 13-17

United States
- Overall: 49%
- White: 40%
- Black: 40%
- Hispanic: 35%

Healthy People 2020 Goal: 80%

Higher % = Better
Lower % = Better

2019

VANDERBILT-INGRAM CANCER CENTER
Female Breast Cancer Screening

United States
- Overall: 78%
- White: 77%
- Black: 76%
- Hispanic: 84%

Healthy People 2020 Goal: 81%

Key:
- Higher % = Better
- Lower % = Better

2019
Cervical Cancer Screening

United States
- Overall: 80%
- White: 81%
- Black: 80%
- Hispanic: 79%

Healthy People 2020 Goal: 93%

Healthy People 2020 Goals:

Higher % = Better
Lower % = Better
Colorectal Cancer Screening

Key

United States
- Overall

Catchment Area
- Overall
- White
- Black
- Hispanic

Healthy People 2020 Goals:
- Higher % = Better
- Lower % = Better

Healthy People 2020 Goal: 71%

2019
HUMAN PAPILLOMAVIRUS (HPV) VACCINATION

► Started HPV Vaccine Series 2018

2019
Human Papillomavirus (HPV) Vaccination

→ Finished HPV Vaccine Series

2018

VANDERBILT-INGRAM CANCER CENTER

2019
<table>
<thead>
<tr>
<th>Vision for the Future</th>
<th>Goals for 2020-2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness, healthy living and longevity for all</td>
<td>Empower people to engage in cancer prevention and early detection</td>
</tr>
<tr>
<td>Accessible prevention, screening and care</td>
<td>Reduce barriers to accessing care</td>
</tr>
<tr>
<td>Quality, affordable and equitable care</td>
<td>Promote evidence-based guidelines and policy</td>
</tr>
<tr>
<td>Holistic treatment and support as standard practice</td>
<td>Integrate treatment and support for physical, emotional and other needs</td>
</tr>
<tr>
<td>Strong public support and diverse participation in cancer research</td>
<td>Raise awareness about importance of cancer research</td>
</tr>
<tr>
<td>All cancers prevented or cured</td>
<td>Advance new scientific discoveries in prevention, screening, and treatment</td>
</tr>
</tbody>
</table>
HPV RELATED CANCERS

6 TYPES OF CANCER

- OROPHARYNGEAL
  (Back of Throat and Tonsils)
- CERVICAL
- VAGINAL
- VULVAR
- PENILE
- ANAL

VANDERBILT-INGRAM CANCER CENTER

2019
OBESITY RELATED CANCERS

7 TYPES OF CANCER

ESOPHAGUS
BREAST
GALLBLADDER
PANCREAS
KIDNEY
ENDOMETRIUM (Lining of Uterus)
COLON AND RECTUM

VANDERBILT-INGRAM CANCER CENTER

2019
**State Cancer Plan Goals Tennessee**

**Primary Prevention**

- Stabilize the incidence rate of melanoma.
- Increase the number of adolescents aged 13-17 years who are up to date with the HPV vaccine series.
- Increase the percentage of Tennesseans at a healthy BMI.
- Increase the number of homes tested annually for radon.
- Decrease the percentage of Tennesseans who currently smoke cigarettes, use electronic vapor products, or smokeless tobacco.

**Screening/Secondary Prevention**

- Increase the percentage of at-risk adults screened for lung cancer.
- Increase the percentage of adults aged 50-75 who have fully met the USPSTF colon cancer screening recommendation.
- Increase the percentage of women aged 50-74 who have had a mammogram within the past two years.
- Increase the percentage of women aged 21-65 who have had a Pap test in the past three years.
- Increase the percentage of residents with personal and/or family history of cancer who are at high risk for inherited disease that are offered appropriate genetic counseling and/or testing for inherited cancer predisposition.

**Treatment/Tertiary Prevention and Quality of Life**

- Increase the number of health care professionals trained in effective palliative care techniques.
- Increase the five-year relative cancer survival rate.
- Improve the medical, psychosocial, and educational outcomes and needs of childhood cancer patients in Tennessee.
### State Cancer Plan Goals
#### Kentucky

<table>
<thead>
<tr>
<th><strong>Primary Prevention</strong></th>
<th><strong>Screening/Secondary Prevention</strong></th>
<th><strong>Treatment/Tertiary Prevention and Quality of Life</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduce the incidence and mortality rates of tobacco-related cancers in all populations.</td>
<td>Reduce the proportion of late-stage diagnosis and mortality from breast cancer through screening and early detection.</td>
<td>Promote access to and appropriate utilization of quality cancer diagnostic and treatment services for all Kentuckians.</td>
</tr>
<tr>
<td>Reduce the incidence of cancers related to nutrition, physical activity, and obesity.</td>
<td>Reduce the incidence and mortality rates of cervical cancer through prevention and early detection.</td>
<td>Promote overall health of Kentucky cancer survivors from diagnosis onward, to increase quality of life.</td>
</tr>
<tr>
<td>Reduce the incidence and mortality rates of cancers related to environmental carcinogens, with a focus on radon.</td>
<td>Reduce the incidence and mortality rates of colon cancer through prevention and early detection.</td>
<td></td>
</tr>
<tr>
<td>Reduce incidence of HPV-related cancers by increasing initiation and completion of the human papillomavirus (HPV) vaccine series.</td>
<td>Increase the percentage of eligible residents who are offered appropriate genetic counseling and/or testing for inherited cancer predisposition.</td>
<td></td>
</tr>
</tbody>
</table>
### State Cancer Plan Goals

**Alabama**

<table>
<thead>
<tr>
<th><strong>Primary Prevention</strong></th>
<th><strong>Screening/Secondary Prevention</strong></th>
<th><strong>Treatment/Tertiary Prevention and Quality of Life</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduce cancer risk by maintaining a healthy weight, eating a healthy diet, and being physically active.</td>
<td>Reduce incidence of late stage breast cancer and breast cancer mortality.</td>
<td>Increase participation of Alabamians in cancer clinical trials.</td>
</tr>
<tr>
<td>Increase vaccination rate for vaccines shown to reduce the risk of cancer.</td>
<td>Reduce incidence of late stage cervical cancer and cervical cancer mortality.</td>
<td>Improve quality of life for cancer survivors and their families.</td>
</tr>
<tr>
<td>Reduce the incidence and mortality related to lung cancer.</td>
<td>Reduce incidence of late stage colon and rectal cancer and colon and rectal cancer mortality.</td>
<td></td>
</tr>
<tr>
<td>Reduce the risk of skin cancer by decreasing exposure to ultraviolet light.</td>
<td>Reduce prostate cancer mortality in Alabamians.</td>
<td></td>
</tr>
</tbody>
</table>

**VANDERBILT-INGRAM CANCER CENTER**

2019
Fact Sheets
CANCER STATISTICS

Most Common Cancers

Affecting Men and Women in the catchment area

- Prostate
- Lung
- Colorectal
- Urinary Bladder
- Melanoma of the Skin
- Female Breast
- Lung
- Colorectal
- Corpus and Uterus
- Melanoma of the Skin

Most Common Deaths from Cancers

Affecting Men and Women in the catchment area

- Lung
- Colorectal
- Prostate
- Pancreas
- Liver
- Lung
- Female Breast
- Colorectal
- Pancreas
- Ovary

Cancers with Higher Mortality

These particular types of cancer had higher death rates in the catchment area versus the overall U.S.

- Lung
- Colon & Rectum
- Cervix
- Oropharynx
- Melanoma of the Skin

Cancers with Rising Mortality Trends

Also rising in the U.S.

- Uterus
- Liver

Not rising in the U.S.

- Esophagus
- Melanoma of the Skin
- Pancreas
- Urinary Bladder

For more info visit www.mvtcp.org and www.vicc.org
→ **Race and Ethnicity**

Listed are the demographic characteristics of the catchment area compared to the population of the U.S.:

**Key**

- **Race and Ethnicity**
  - White
  - Hispanic
  - Black
  - Asian
  - Other
  - 2+ Races

**U.S.**

- **Population**
  - 321.0 Million

**Catchment Area**

- **Population**
  - 7.9 Million

→ **Cancer Disparities**

**Racial and Ethic Disparities in Catchment Area**

New cancer cases or cancer death rates are higher for Blacks and Hispanics compared to non-Hispanic Whites for the cancers listed.

**Blacks Higher than Whites**

- Breast
- Cervix
- Colon & Rectum
- Kidney
- Pancreas
- Prostate
- Stomach
- Uterus

**Hispanics Higher than Non-Hispanic Whites**

- Cervix
- Childhood
- Stomach

→ Hispanic populations, in comparison to others in the catchment area, are more likely to not see a health care provider because of cost.

**Key**

- **United States**
  - Overall

- **Catchment Area**
  - Overall
  - White
  - Black
  - Hispanic

**Have a Regular Health Care Provider**

- **Overall**
  - 77%

- **White**
  - 75%

- **Black**
  - 79%

- **Hispanic**
  - 75%

**Could Not See A Health Care Provider Because of Cost**

- **Overall**
  - 15%

- **White**
  - 13%

- **Black**
  - 18%

- **Hispanic**
  - 15%

For more info visit [www.mvtcp.org](http://www.mvtcp.org) and [www.vicc.org](http://www.vicc.org)
Rural Residents

In the catchment area, 25% of residents are considered rural. The charts below highlight the current racial and ethnic breakdown.

Demographics

Key

Race and Ethnicity
- White
- Hispanic
- Black
- Asian
- Other
- 2+ Races

Catchment Area

- Population
- 7.9 Million

Rural Areas

- Population
- 2.0 Million

Rural Residents Life Expectancy

Life expectancy in the catchment area varies by county and reflects differences in overall health status and the burden of disease.

Cancer in Rural Areas

The difference in incidence rates among urban and rural counties highlight the geographical disparities that exist in the catchment area.

For more info visit www.mvtcp.org and www.vicc.org
2019 Community Cancer Needs Assessment

To view full versions:  https://www.vicc.org/community/research
Questions or Concerns?

Kelsey Minix, MPH

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Vanderbilt-Ingram Cancer Center

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