

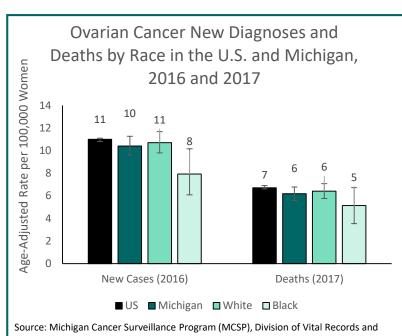
DHHS Ovarian Cancer in Michigan

Updated April 2019

- Ovarian cancer is not one single disease, but has subtypes that have different risk factors, prognoses, and treatments. 1
- Ovarian cancer causes more deaths than cervical, uterine, vaginal, and vulvar cancers combined. 1
- In 2019, it is estimated that there will be 730 new cases of ovarian cancer and 490 deaths from ovarian cancer in Michigan women. 2

Michigan Ovarian Cancer Trends and Disparities

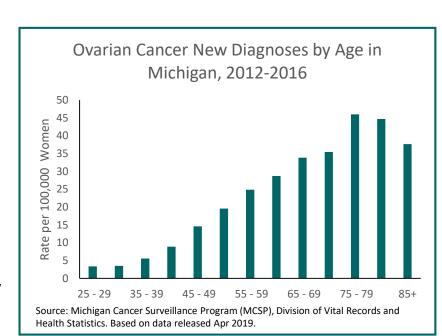
- > The rate of new ovarian cancer diagnoses have declined from 16 cases per 100,000 Michigan women in 1985 to 10 cases per **100,000** women in 2016. ³
- > The rate of ovarian cancer deaths have declined from 9 cases per 100,000 women in 1985 to 6 cases per 100,000 women in 2017. 3
- > Although data for Hispanic women in Michigan is suppressed due to low numbers, national data show after White women, Hispanic women have the second highest rate of new diagnoses (11 and 10 cases per 100,000 respectively). 4



Health Statistics. Based on data released Apr 2019.

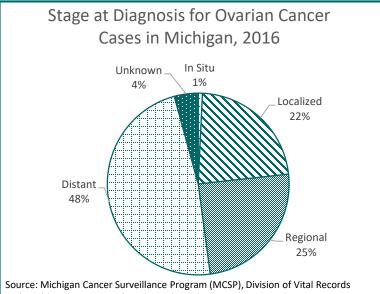
Ovarian Cancer Risk Factors: 1

- 45 years of age or older
 - In Michigan, 89% of cases occurred after age 45
- A personal or family history of ovarian cancer on either the mother or father's side
- Inherited genetic mutations for hereditary cancer syndromes, including hereditary breast and ovarian cancer syndrome, Lynch syndrome, and LiFraumeni syndrome
- Obesity
- Never having given birth
- Use of hormone replacement therapy
- A history of endometriosis
- Increased number of lifetime ovulatory cycles

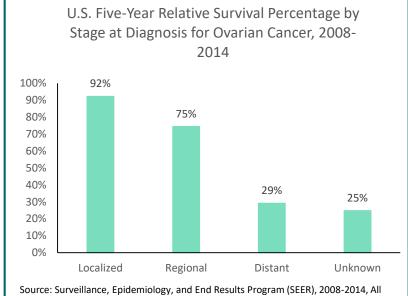


Early Detection of Ovarian Cancer

- Common symptoms of ovarian cancer include persistent bloating, pelvic pain, trouble eating or feeling full quickly, or urinary symptoms such as urgency or frequency. 1
- Early ovarian tumors often have no symptoms and are difficult or impossible to feel through a pelvic exam. 1
- In the U.S., women diagnosed with ovarian cancer have a 46% chance of surviving five-years. 3
- In the U.S., Black women have a significantly lower five-year survival rate (39%) compared to White women (46%) (data not shown). 5
- In Michigan, only 22% of ovarian cancers are found at the localized stage; however, when it is found early the five-year survival rate is 92%. ⁵
- Only 29% of U.S. women diagnosed in the distant stage will survive five years. In Michigan, 48% of women are diagnosed at this stage. 5



and Health Statistics. Based on data released Apr 2019.



Races, Females by SEER Summary Stage 2000. www.seer.cancer.gov

Genetic Testing and Counseling for Inherited Genetic Mutations ¹

Women with a personal or family history of breast and ovarian cancer should consult their healthcare provider about genetic counseling and testing for inherited genetic mutations. Inherited genetic mutations, such as mutations in BRCA1/BRCA2, are rare in the general population, but are more prevalent in specific populations. Approximately 0.2% of the U.S. population have BRCA1/BRCA2 mutations, but 10% to 15% of women diagnosed with invasive ovarian cancers have the mutations. Other hereditary cancer syndromes can also increase the risk for ovarian cancers.

References: 1) American Cancer Society. Ovarian Cancer. Cancer.org/cancer/ovarian-cancer. 2) American Cancer Society. Cancer Statistics Center: Michigan at a Glance 2019. Retrieved at: http://cancerstatisticscenter.cancer.org./#/state/Michigan. 3) Michigan Cancer Surveillance Program. Invasive Ovarian Cancer Incidence and Mortality Trends, Michigan Female Residents, 1985-2016. Division for Vital Records & Health Statistics. Michigan Department of Health & Human Services. Retrieved at: http://www.cancer-rates.info/mi/index.php. 4) U.S. Cancer Statistics Working Group. U.S. Cancer Statistics Data Visualizations Tool, based on November 2017 submission data (1999-2015): U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; www.cdc.gov/cancer/dataviz, June 2018. 5) Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER 18 Regs Research Data + Hurricane Katrina Impacted Louisiana Cases, November 2017 Sub (2000-2015), National Cancer Institute, DCCPS, Surveillance Research Program, Surveillance Systems Branch, released April 2018, based on the November 2017 submission.