

Profile of Oropharyngeal Cases in Arizona

Data from the Arizona Cancer Registry

The Arizona Cancer Registry collects, manages, and analyzes information on the incidence, survival and mortality of persons diagnosed with cancer. Arizona's hospitals, clinics, and doctors submit reports of more than 34,000 new cancer cases annually. The central cancer registry merges these case reports to accurately count each case and to generate the trends and demographic profiles about the various types of cancer.

Oropharyngeal cancer¹(OPC) is one of the many types of cancer tracked by the central registry. This profile characterizes Arizona residents diagnosed with OPC, a cancer linked to use of tobacco, alcohol consumption, and oral infection with the human papilloma virus (HPV). Data are based upon case reports submitted to the central cancer registry as of March 2022.

Data highlights for OPC

- The count of newly diagnosed cases, males and females, in 2019 totaled 370 (Figure 1).

Gender

- On average from 1995-2019, 4 out of 5 cases of OPC are male.

- The rate of new cases has averaged 6.2 cases per 100,000 males, and 1.4 cases per 100,000 females during the past 25 years (Figure 2). The state's incidence rate of newly diagnosed cases among males is increasing across time.

Age

- In the last 10 years, the count of incidence OPC cases was highest among persons 60-69

years old (Figure 3). However, adults of all ages are diagnosed with OPC.

Figure 1. Count of newly diagnosed cases of OPC in Arizona residents

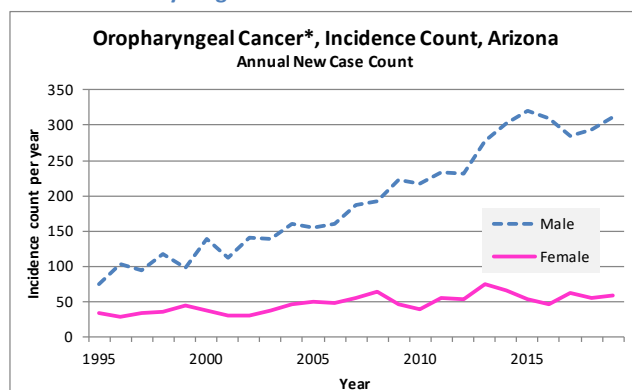


Figure 2. AZ OPC, age-adjusted Incidence rate (per 100,000 population)

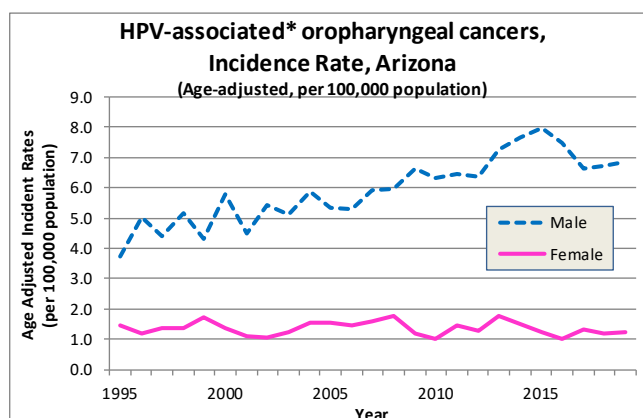
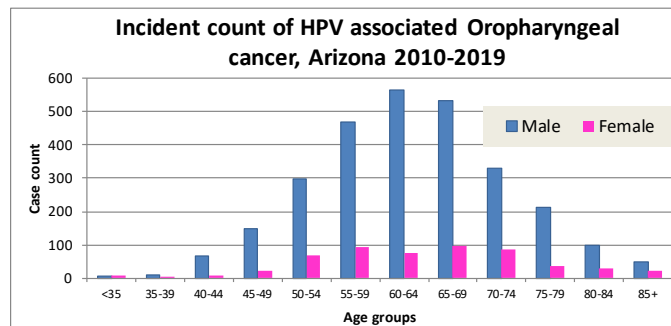


Figure 3. Age at diagnosis of OPC in Arizona, 2009-2018



¹ Anatomically: base of tongue; pharyngeal tonsils, anterior and posterior tonsillar pillars, and glossotonsillar sulci; anterior surface of soft palate and uvula; and lateral and posterior pharyngeal walls (AJCC Staging Manual). ICD-O-3 codes: sites

C01.9, C02.4, C02.8, C05.1, C05.2, C09.0-C09.9, C10.0-C10.9, C14.0, C14.2, C14.8; histology codes for squamous cell carcinoma 8050-8084, 8120-8131. (MMWR, July 8, 2016:65(26),661-666)

Race and ethnic groups

- OPC occurs among all race and ethnic groups (Table 1). The state's race composition is mostly White, and most of the diagnosed cases also occur among this population.

- The incidence rate of OPC is highest among Arizona's White Non-Hispanic and African American male populations (Figure 4).

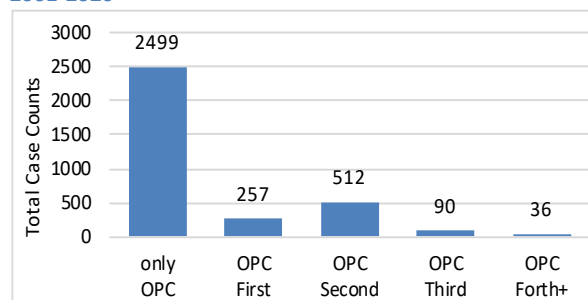
Geographic distribution

- OPC cases are reported from all 15 of Arizona's counties (Figure 5). The highest count each year is reported from Maricopa County (where most of the population lives).

Other cancers

- One in five persons with OPC was diagnosed with another primary cancer (Figure 6). The other cancer may occur before or after a diagnosis of OPC.

Figure 6. Sequence (order) in which OPC was diagnosed, 2001-2020



Mortality

- In the year 2020 there were 89 Arizonans who died of OPC¹ (Table 2).

Table 2. Count of Arizonan residents with OPC listed as the underlying cause of death

Year	Count of Deaths
2017	72
2018	64
2019	75
2020	89

Survival

- Adjusted for age, the 3-year relative survival rate was 81.8% for localized, 78.4% for regional and 45.3% for distant OPC cancer stage among cases diagnosed between 2007-2018.

More cancer data

<http://www.azdhs.gov/phs/phstats/acr/index.htm>
<http://seer.cancer.gov/canques/incidence.html>
<http://statecancerprofiles.cancer.gov>
<http://faststats.naaccr.org>

Table 1. Sum of diagnosed OPC cases by race and ethnic group, 2010-2019

Race	Male	Female	Total
White, Non Hispanic	2,476	489	2,965
White, Hispanic	167	42	209
Black	56	10	66
American Indian	40	9	49
Asian/Pacific Islander	23	11	34
Other	22	2	24
Total	2,784	563	3,347

Figure 4. Rate of OPC by race and ethnic group, Arizona, 2010-2019

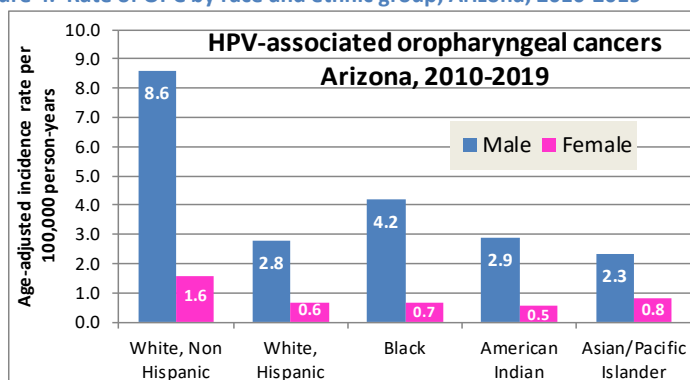
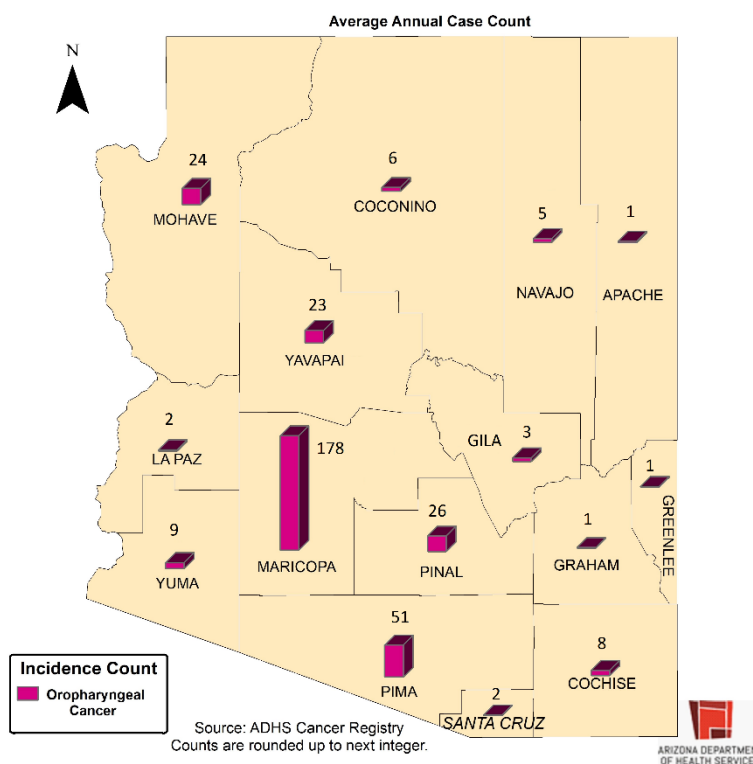


Figure 5. Average yearly count of newly diagnosed Oropharyngeal cases, 2010-2019, by county of residence.



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