

Profile of Kidney and Renal Pelvis (K/RP) Cancer Cases in Arizona



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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 the more than 30,000 new cancer cases annually. The central cancer registry merges these case reports to accurately count each case and generate the trends and demographic profiles about the various types of cancer.

Cancer of kidney and renal pelvis¹ ("K/RP") is one of the many types of cancer tracked by the central registry. This Profile characterizes Arizona residents diagnosed with K/RP cancer. Data are based upon the case reports submitted to the central cancer registry as of March 2017.

Data highlights for K/RP

- The count of newly diagnosed K/RP cases in 2014 totaled 1,155 (Figure 1).

Gender

- For every 5 cases diagnosed among males there are 3 cases diagnosed among females.
- The rate of new cases has averaged 18.7 cases per 100,000 males, and 10.0 cases per 100,000 females during the past 20 years (Figure 2). The state's incidence rates of newly diagnosed cases are increasing across time, more so among males.

Age

- Incidence of K/RP increases with age: 51% of Arizona cases are diagnosed in persons age 65 or older (Figure 3). However, young adults and children also are diagnosed with K/RP.

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

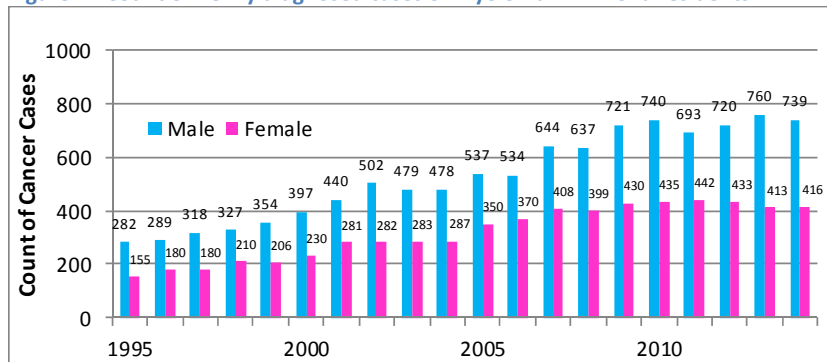


Figure 2. AZ KRP, age-adjusted Incidence rate (per 100,000 population)

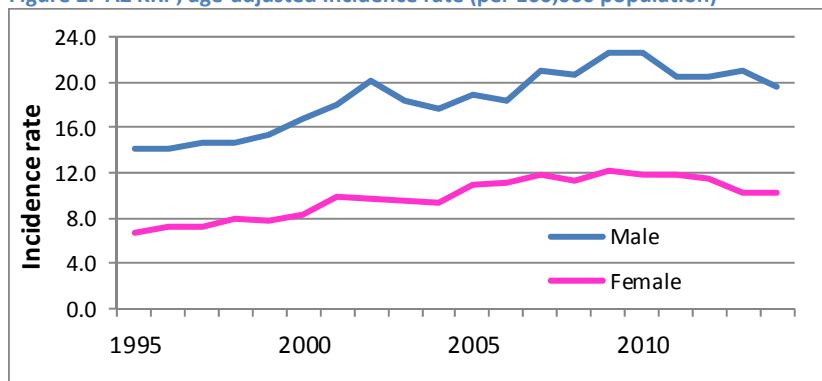
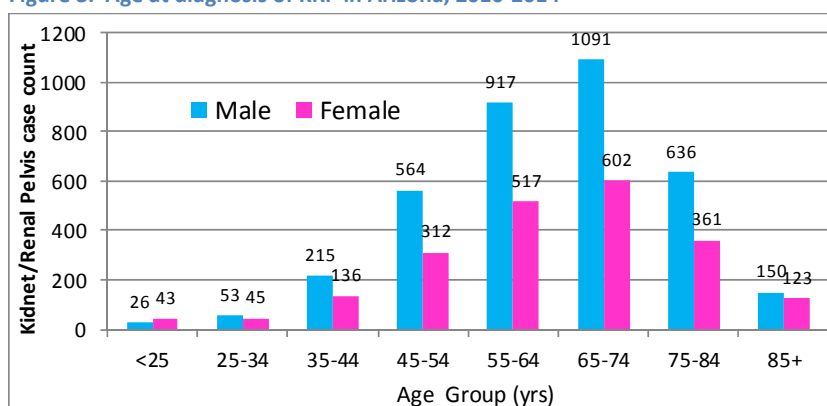


Figure 3. Age at diagnosis of KRP in Arizona, 2010-2014



Race and ethnic groups

- K/RP cancer occurs among all race and ethnic groups. The state's race composition is mostly White, and most of the diagnosed cases also occur among this population.

¹ ICD-O-3 site codes C64.9 (Kidney), C65.9 (Renal Pelvis). All histology codes are included except for the lymphoma codes.

- But, the incidence rate of K/RP is highest among Arizona's American Indian population (Figure 3).

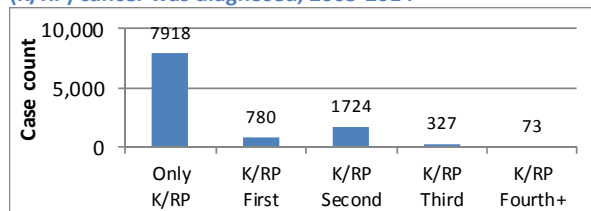
Geographic distribution

- K/RP cases are reported from all 15 of Arizona's counties (Figure 4). The highest count each year is reported from Maricopa County (where the majority of the population lives).

Other cancers

- One in four persons with K/RP cancer was diagnosed with another cancer (Figure 5). The other cancer may occur before or after a diagnosis of K/RP.

Figure 5. Sequence (order) in which Kidney/Renal Pelvis (K/RP) cancer was diagnosed, 2005-2014



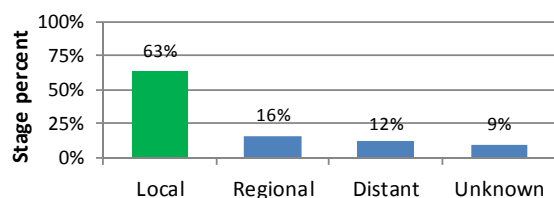
Mortality

- In the year 2015 there were 310 Arizonans who died of K/RP cancer (Table 3).

Table 3. Count of Arizonan residents with K/RP (C64-C65) listed as the underlying cause of death

Year	Count of Deaths
2011	264
2012	249
2013	274
2014	271
2015	310

Stage at Diagnosis Most cases are diagnosed in local stage, which along with histologic subtype, influences survival.



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>

Figure 3. Rate of K/RP cancer by race and ethnic group, Arizona, 2010-2014

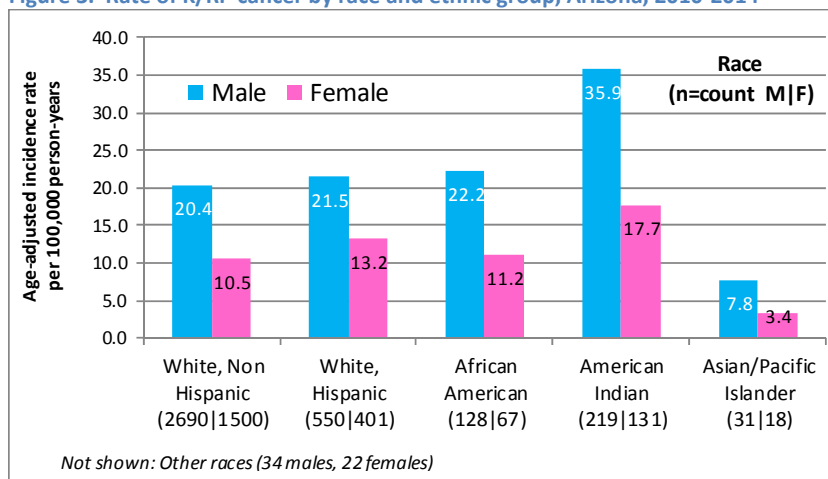
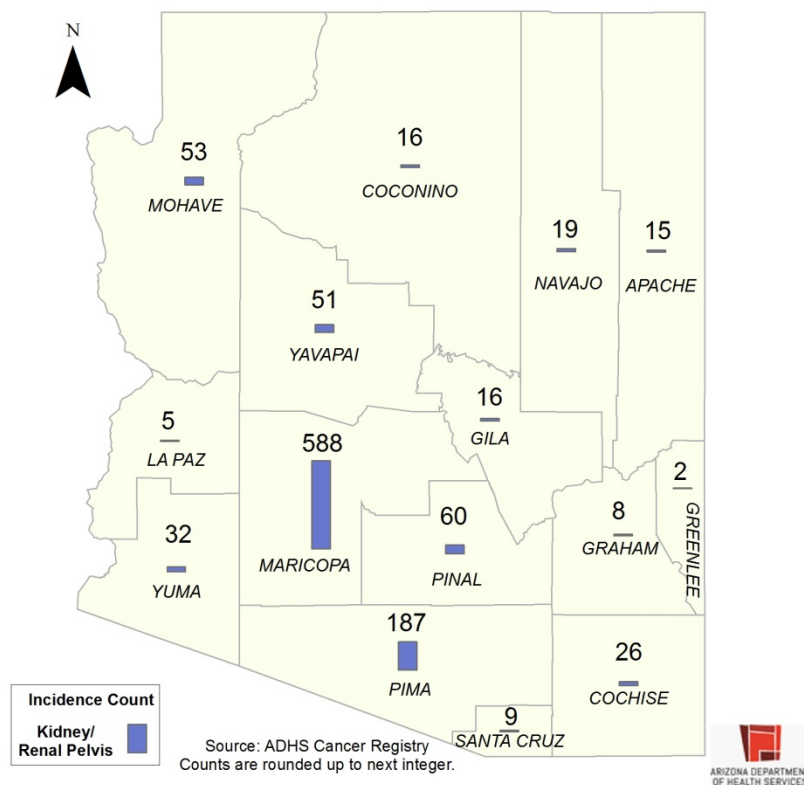


Figure 4. Average yearly count of newly diagnosed Kidney / Renal Pelvis cancer cases, 2005-2014, by county of residence.



The Arizona Cancer Registry is supported by general funds from the State of Arizona and a grant from the CDC, National Program of Cancer Registries.



tjf; 2017-03-22