



Arizona Melanoma Reporting

No. 2020-1 / August 2020

MESSAGE FROM NANCY SILVIS, M.D., Task Force Chair

Puzzle this out

In 2013 the age adjusted rate of melanoma in Arizona per 100,000 persons was **below** the national rate. By 2017 the Arizona rate of invasive melanoma (29.9) was 24.1% **higher** than the US rate (22.7) per 100,000. Reported cases of melanoma in-situ (MIS) increased in tandem with invasive cases attaining an almost one-to-one rate i.e. in 2017 50% of reported Arizona melanoma cases were diagnosed as in-situ. The Arizona percentage of MIS cases is similar to the SEER 49% of melanoma cases diagnosed as in-situ. (Tables 3 and 4).

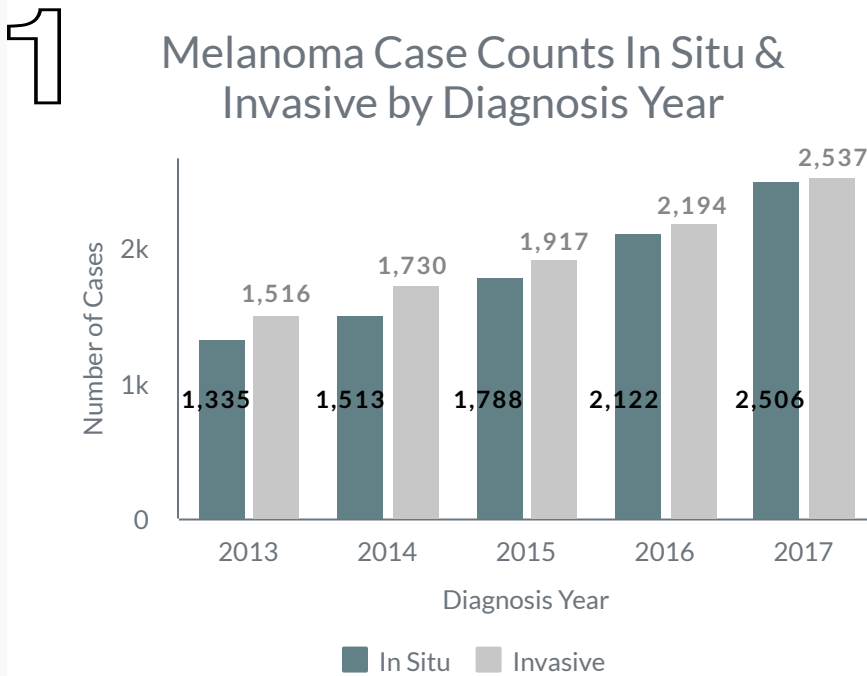
I know that reporting of melanoma cases has markedly improved as demonstrated by the increased number of reporting providers: 349 providers in 2019 vs 141 providers reporting in 2009 (thanks everyone!). The question which I would like to answer is at what point does the increased rate of reported melanoma cases represent a true growth of disease incidence vs simply more complete reporting? I welcome any ideas on how to answer this question.

Thank you. Nancy Silvis, MD



Information about Arizonans diagnosed with melanoma

TOTAL MELANOMA, 2013-2017 - COUNTS



NOTES ABOUT FIGURES 1 - 3

1 From 2013 to 2017 there has been a 77% (in situ & invasive) increase in reported cases.

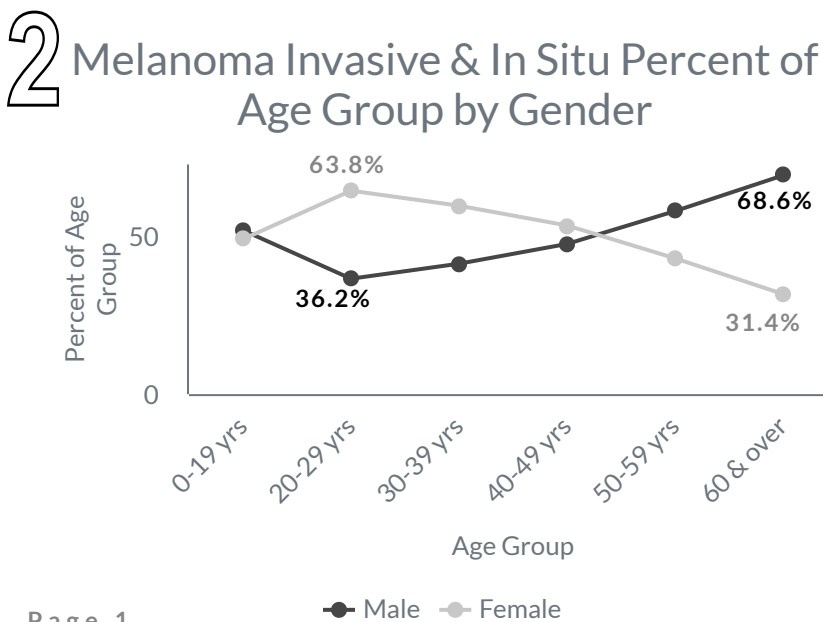
TOTAL INVASIVE MELANOMA CASES REPORTED FOR 2017 **2,537**

TOTAL IN SITU MELANOMA CASES REPORTED FOR 2017 **2,506**

2 Age at diagnosis differs between males and females. Between the ages of 20 and 50 years, a higher percent of melanoma cases are diagnosed in females. After the age of 50 years most melanoma cases are diagnosed in males.

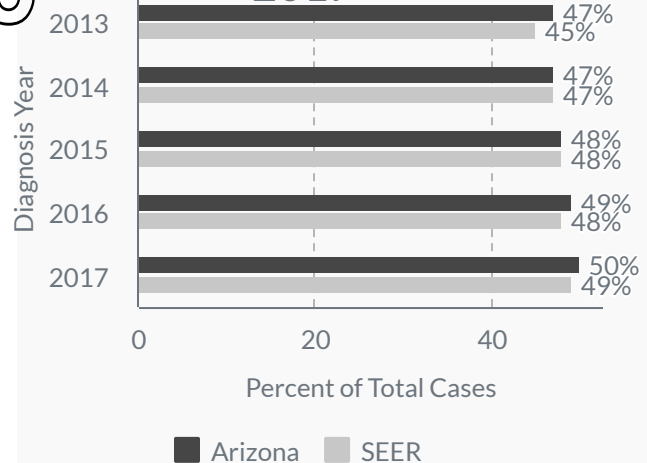
3 The percent of Arizona and SEER in situ melanoma cases are almost equivalent.

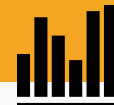
TOTAL MELANOMA, 2013-2017 - GENDER AGE GROUP



3

Percent of In Situ Melanoma by Diagnosis Years, 2013-2017





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Increase melanoma counts and rates demonstrate the effect of improved physician reporting

PURPOSE OF THE ARIZONA MELANOMA TASK FORCE

To identify barriers and develop strategies to improve melanoma reporting by physicians in Arizona.

AGE ADJUSTED INVASIVE INCIDENCE RATE FOR 2017

29.9 Per 100,000 persons

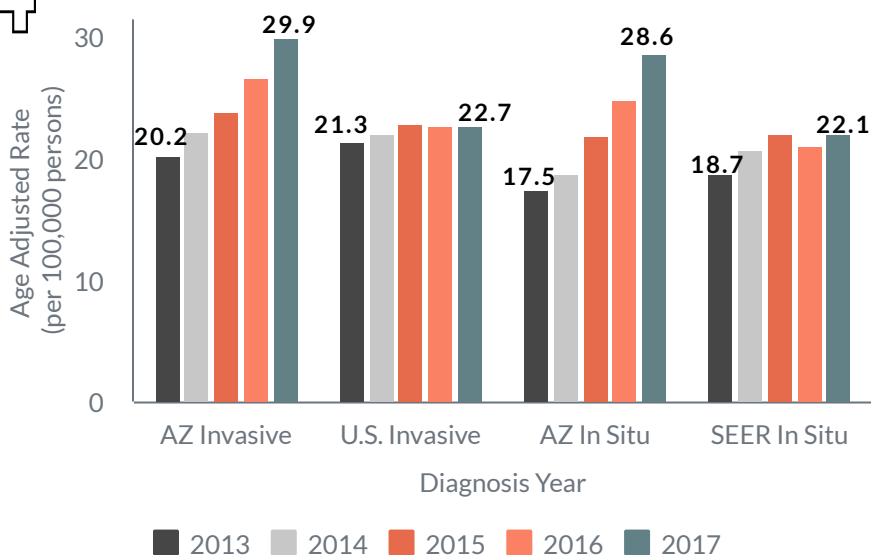
AGE ADJUSTED MORTALITY RATE FOR 2018

2.4 Per 100,000 persons

The following figures are COMPARISONS BETWEEN ARIZONA, U.S., AND SEER

Invasive & In Situ Melanoma Age Adjusted Rates by Diagnosis Year, 2013-2017

4



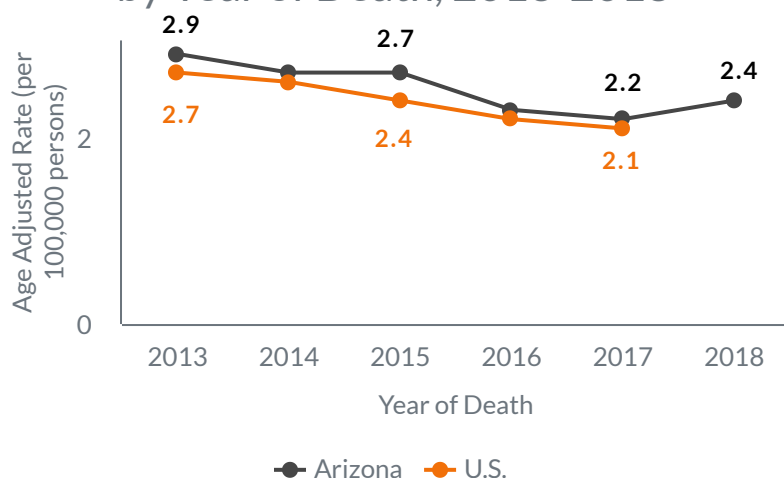
NOTES ABOUT FIGURES 4-5

4 Invasive melanoma age adjusted rates in Arizona have risen 48 percent from 2013 to 2017. In the same time period rates for the U.S. increased 6.6 percent. This increase most likely reflects more complete reporting by dermatologists. The Arizona in situ rates have risen 63.4 percent from the year 2013 to 2017. For the 2017 diagnosis year the Arizona in situ rate (28.6) was 22.7% higher than the SEER rate (22.1)

5 The Arizona melanoma mortality age adjusted rate from 2013 to 2017 decreased 24%. While the U.S. age adjusted rate decreased from 2013 to 2017 to 2.1, a 22.2% decrease. U.S. data not available for 2018.

5

Melanoma Age Adjusted Mortality Rates by Year of Death, 2013-2018



NUMBER OF MELANOMA REPORTS SUBMITTED BY PHYSICIAN OFFICES

Starting on page 4 are physician offices that reported 2019 melanoma reports to the Arizona Cancer Registry and the number of case reports submitted. This list is not included in the web version. The list is grouped by Phoenix Area, Tucson Area, and the rest of the state. The list does not contain physician names where a hospital cancer registry reports their cases. If your name is not listed, the Arizona Cancer Registry has not received reports for 2019 from your office. If the number of reports does not appear accurate for your office, or if you have questions about reporting, please contact Georgia Yee (georgia.yee@azdhs.gov) for more information.



2019 INFORMATION ABOUT THE NUMBER OF MELANOMA REPORTS SUBMITTED BY PHYSICIAN OFFICES

TOTAL NUMBER OF PHYSICIANS REPORTING 2019 MELANOMA CASES	PHOENIX AREA TOTAL NUMBER OF 2019 MELANOMA PHYSICIAN REPORTS SUBMITTED	TUCSON AREA TOTAL NUMBER OF 2019 MELANOMA PHYSICIAN REPORTS SUBMITTED	REST OF THE STATE TOTAL NUMBER OF 2019 MELANOMA PHYSICIAN REPORTS SUBMITTED	Physician reporting includes reports submitted by Nurse Practitioners and Physician Assistants.
349	2,864	838	683	

Notes about the listing of physician cases:



- ✓ Reference date of list is 08/18/20. Cases reported from January 2019 through August 18, 2020.
- ✓ The 2019 number of reports identified in the table above and in the following listing may include non-reportable (e.g., atypical melanocytic dysplasia) cases and/or duplicate reporting. These cases have not been through the quality controlled process. Once the quality control process is initiated non-reportables will be eliminated and the case reports will be matched to the registry database to identify potential duplicates. If duplicates are identified we will use the information reported to consolidate into one "best record" so that each diagnosed melanoma is counted only once for incidence.
- ✓ All providers involved with a melanoma case are required by Arizona regulation to report any melanoma case that is not referred to a hospital for diagnosis and/or treatment.

Data source for graphs that contain U.S. data: US. Cancer Statistics Working. Group. U.S. Cancer Statistics Data Visualizations Tool, based on 2019 submission data (1999-2017): U.S. Department of Health and Human Services, Centers for Disease Control and Prevention and National Cancer Institute; www.cdc.gov/cancer/dataviz, released in June 2020.

Data source for graphs that contain SEER data: Surveillance, Epidemiology, and End Results (SEER) Program (www.seer.cancer.gov) SEER*Stat Database: Incidence - SEER Research Data, 18 Registries, Nov 2019 Sub (2000-2017) - Linked To County Attributes - Time Dependent (1990-2017) Income/Rurality, 1969-2018 Counties, National Cancer Institute, DCCPS, Surveillance Research Program, released April 2020, based on the November 2019 submission.

Data source for graphs that contain Arizona mortality data: Arizona Department of Health Services, Population Health and Vital Statistics Dataset. (2020). Retrieved January 28, 2020.

Data source for graphs that contain cancer Arizona incidence data: Arizona Department of Health Services, Arizona Cancer Registry. Retrieved April 22, 2020.

The Centers for Disease Control and Prevention (CDC) provide support to the Arizona Cancer Registry under Cooperative Agreement NU58DP006341 (National Program of Cancer Registries Component). The contents of this report are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention.

Note: The Arizona Cancer Registry database is dynamic, meaning that numbers are updated frequently for any diagnosis year. Previous reports may reflect different numbers due to these updates.

***Forms for melanoma reporting can be found at <http://www.azdhs.gov/cancer/MelanomaForm.pdf>**

Check out the latest Melanoma Infographic at: <https://www.azdhs.gov/documents/preparedness/public-health-statistics/cancer-registry/adhs-acr-melanoma-infographic.pdf>