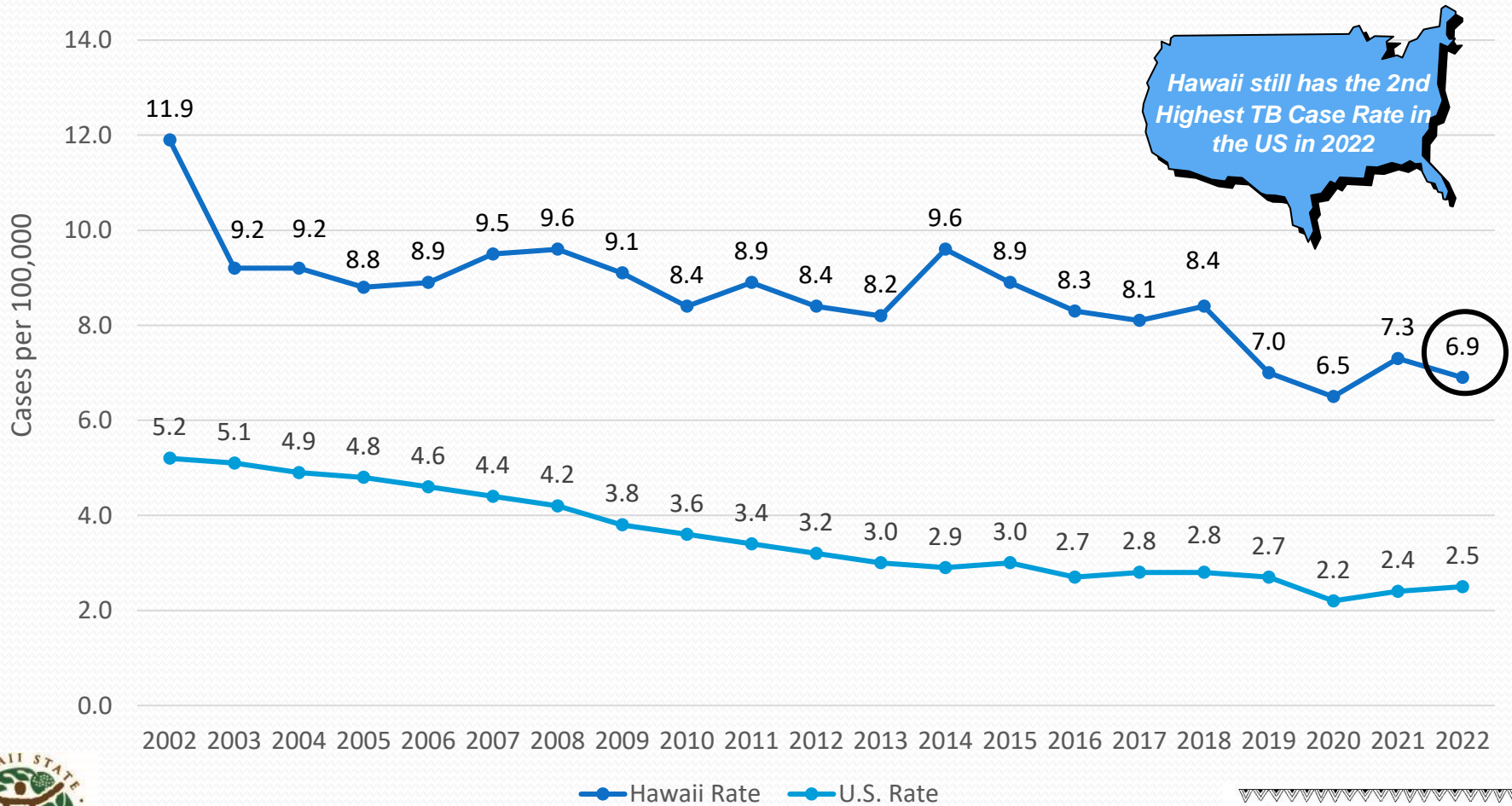


# TB Case Rates

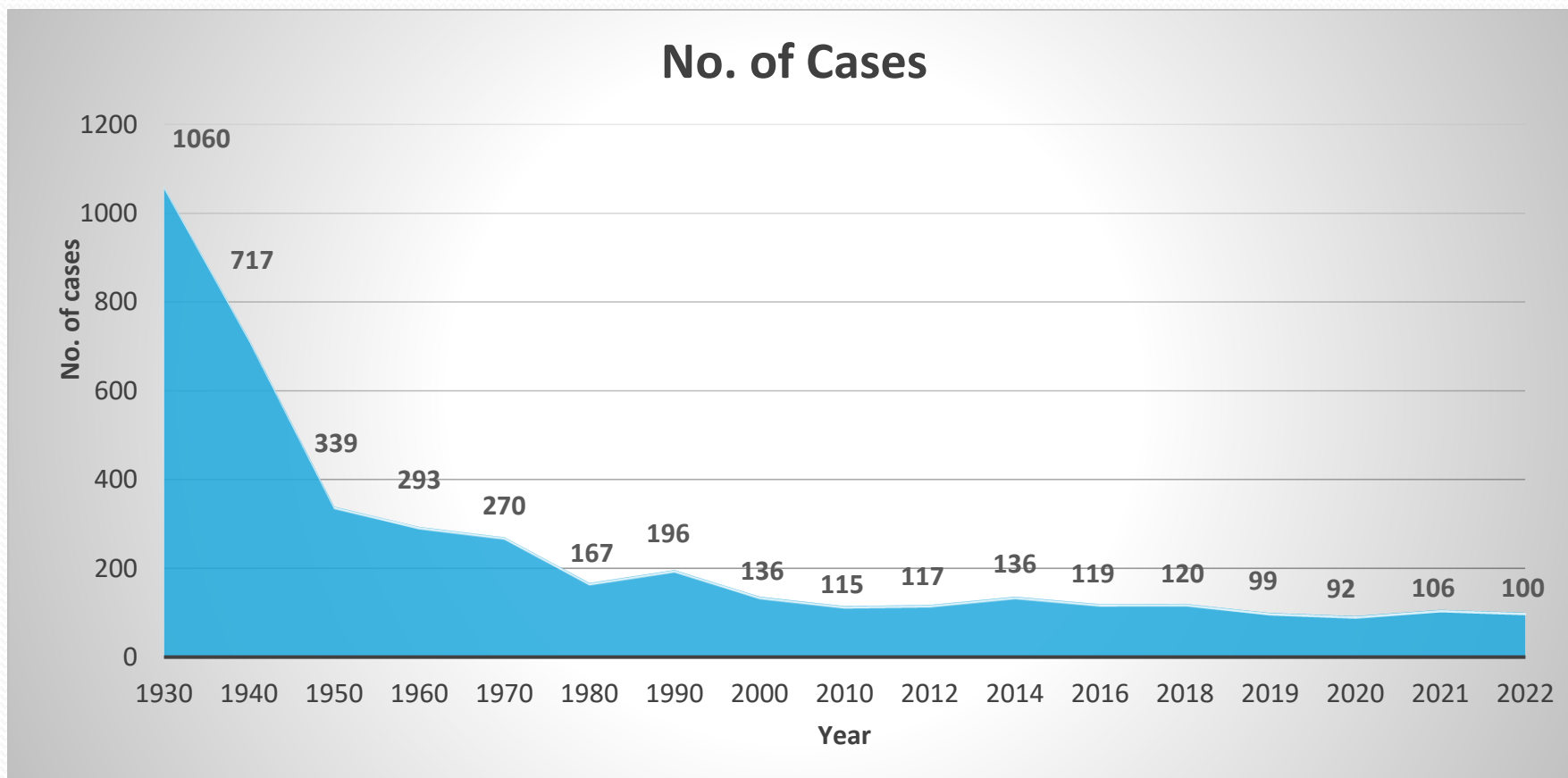
## Hawaii vs. United States, 2002–2022



1/3/2024



# Reported TB Cases Hawaii, 1930–2022



1/3/2024



# Reported TB Cases Hawaii, 2013–2022



1/3/2024



# TB Cases and Case Rates by County Hawaii, 2021-2022

County	No. of Cases		Case Rates (per 100,000 population)		Population Estimates	
	2021	2022	2021	2022	2021	2022
Hawaii	10	6	4.9	2.9	203,792	206,315
Honolulu	86	78	8.6	7.8	1,004,673	995,638
Kauai	5	5	6.8	6.8	73,791	73,810
Maui	5	11	3.0	6.7	164,817	164,351
<b>TOTAL*</b>	106	100	7.3	6.9	1,447,154	1,440,196

Note: Population estimates used to compute case rates were obtained from U.S. Census Bureau, Annual Estimates of the Resident Population for Counties in Hawaii: April 1, 2020 to July 1, 2022 (accessed on 4/24/2023)

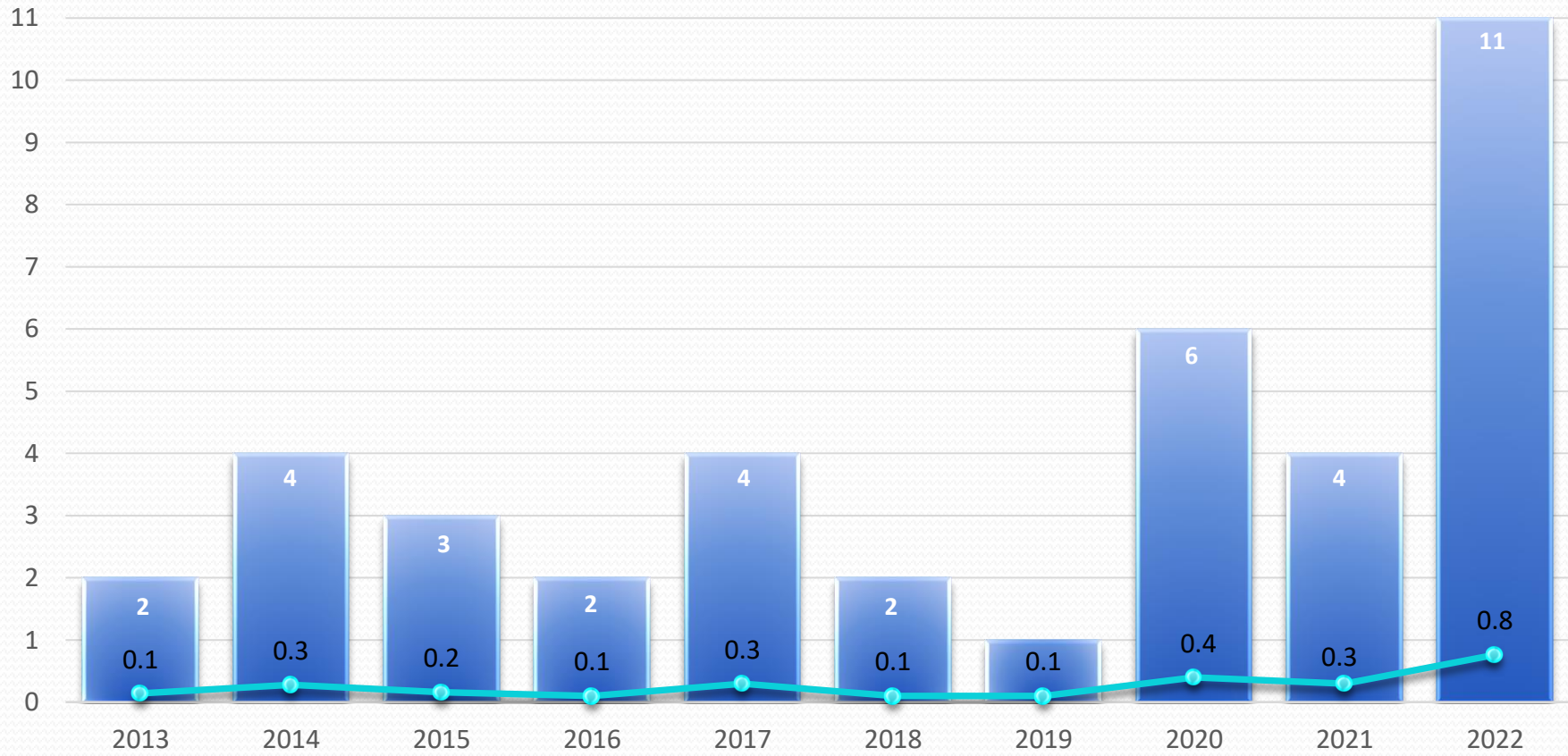
\*Kalawao County population data (81 in 2021 and 82 in 2022) are added to total population estimate however no TB cases were identified in Kalawao County in 2021 or 2022



# TB Deaths and Death Rates Hawaii, 2013–2022

No. of TB Deaths

Death Rate per 100,000



■ TB Deaths    ● TB Death Rate



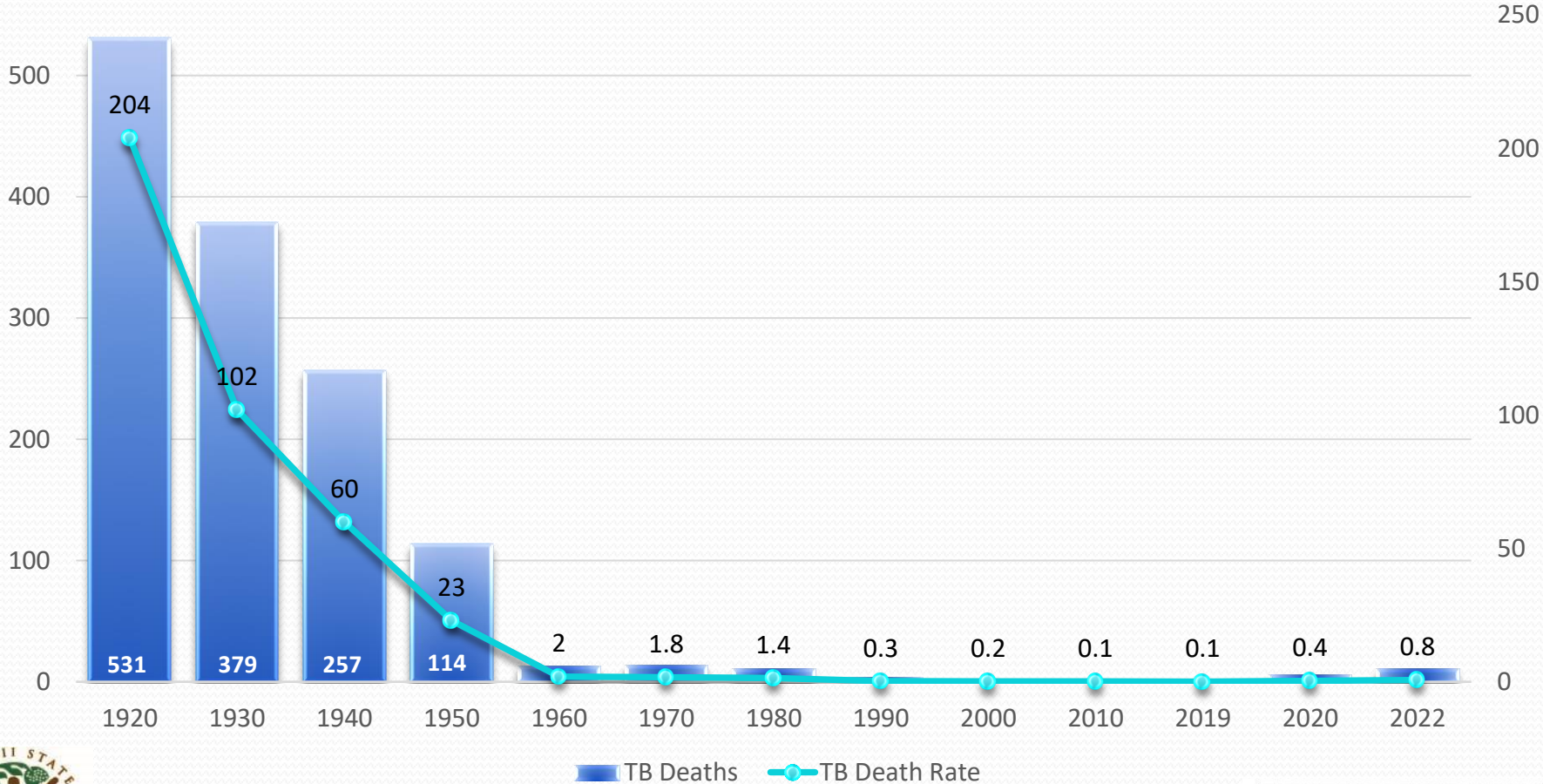
1/3/2024



# TB Deaths and Death Rates Hawaii, 1920–2022

No. of TB Deaths

Death Rate per 100,000

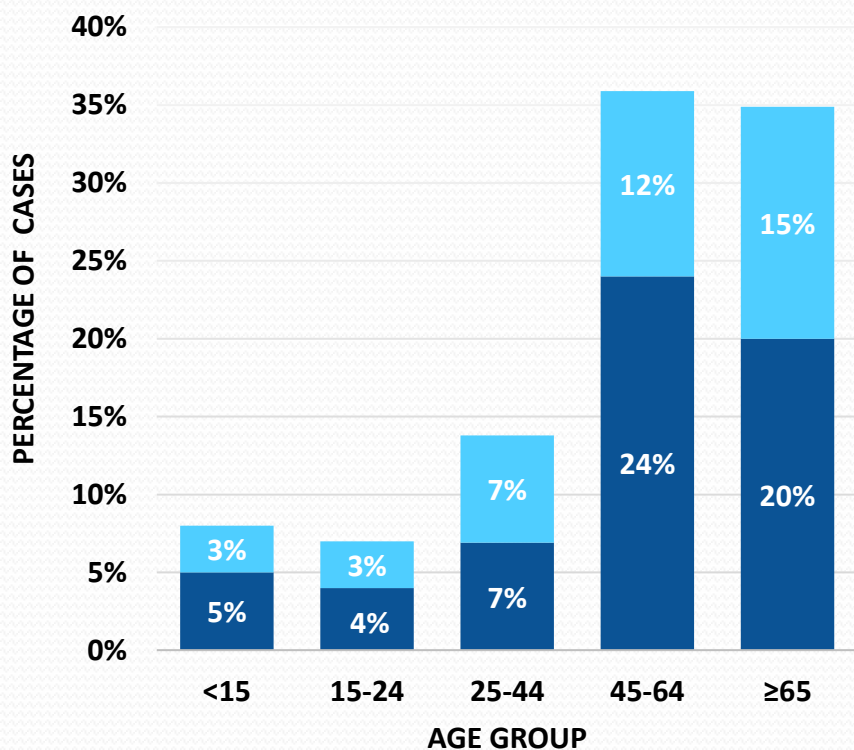


1/3/2024

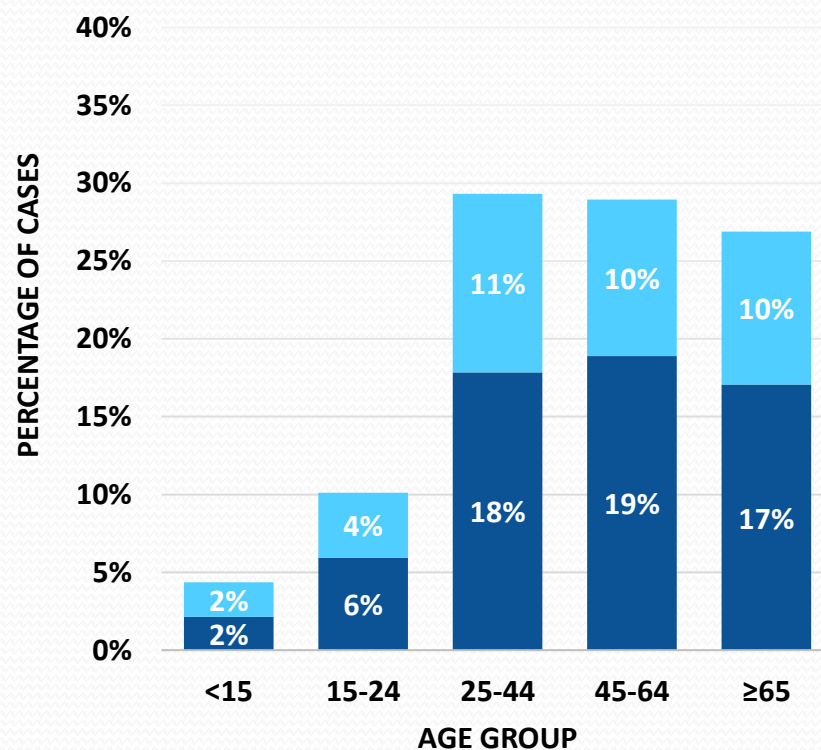


# Percent of TB Cases by Age Group and Gender Hawaii vs. United States

## HAWAII, 2022



## UNITED STATES, 2022\*



Female
  Male

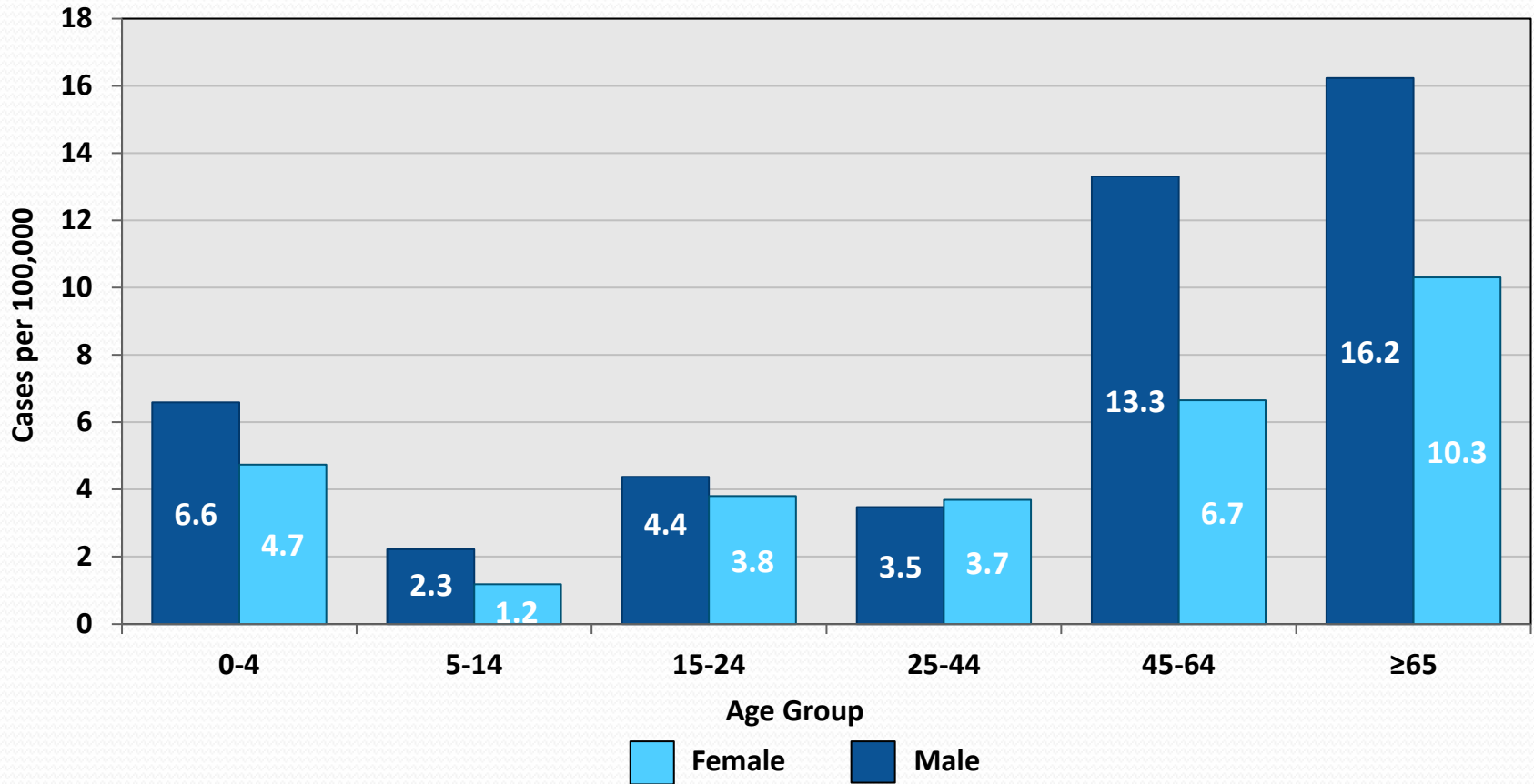
\*Note: Total US cases by age and gender obtained from Table 21: Tuberculosis Cases and Incidence Rates per 100,000 Population by Origin of Birth, Sex, and Age Group: United States, 2022 available at <https://www.cdc.gov/tb/statistics/reports/2022/table21.htm> accessed on 1/3/2024



1/3/2024



# TB Case Rates by Age Group and Gender Hawaii, 2022



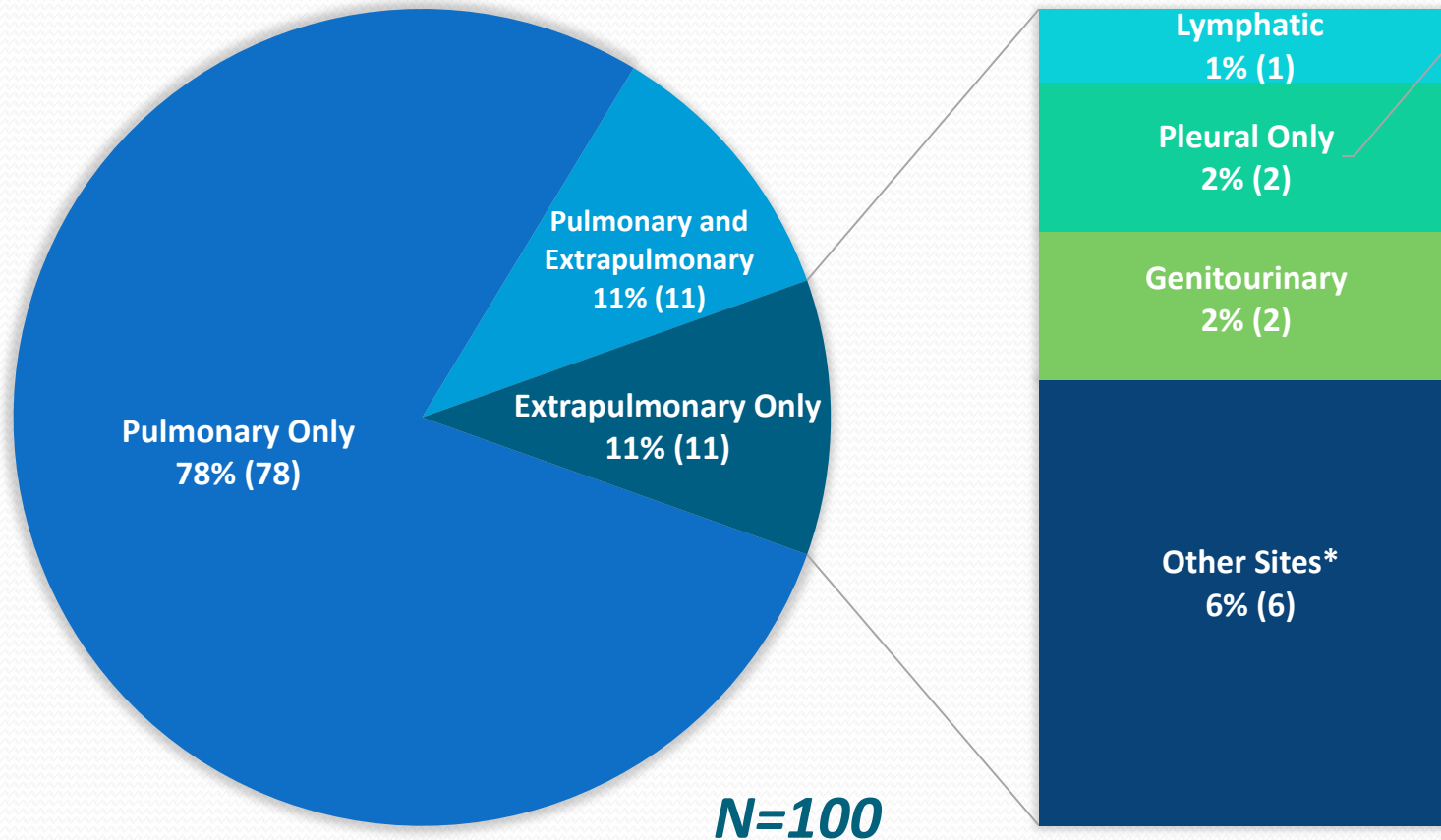
Note: Population estimates used to compute case rates were obtained from U.S. Census Bureau, 2017-2021 American Community Survey 5-year estimates, ACS Age and Sex estimates, Table S0101, data.census.gov (accessed on 4/28/23)

1/3/2024





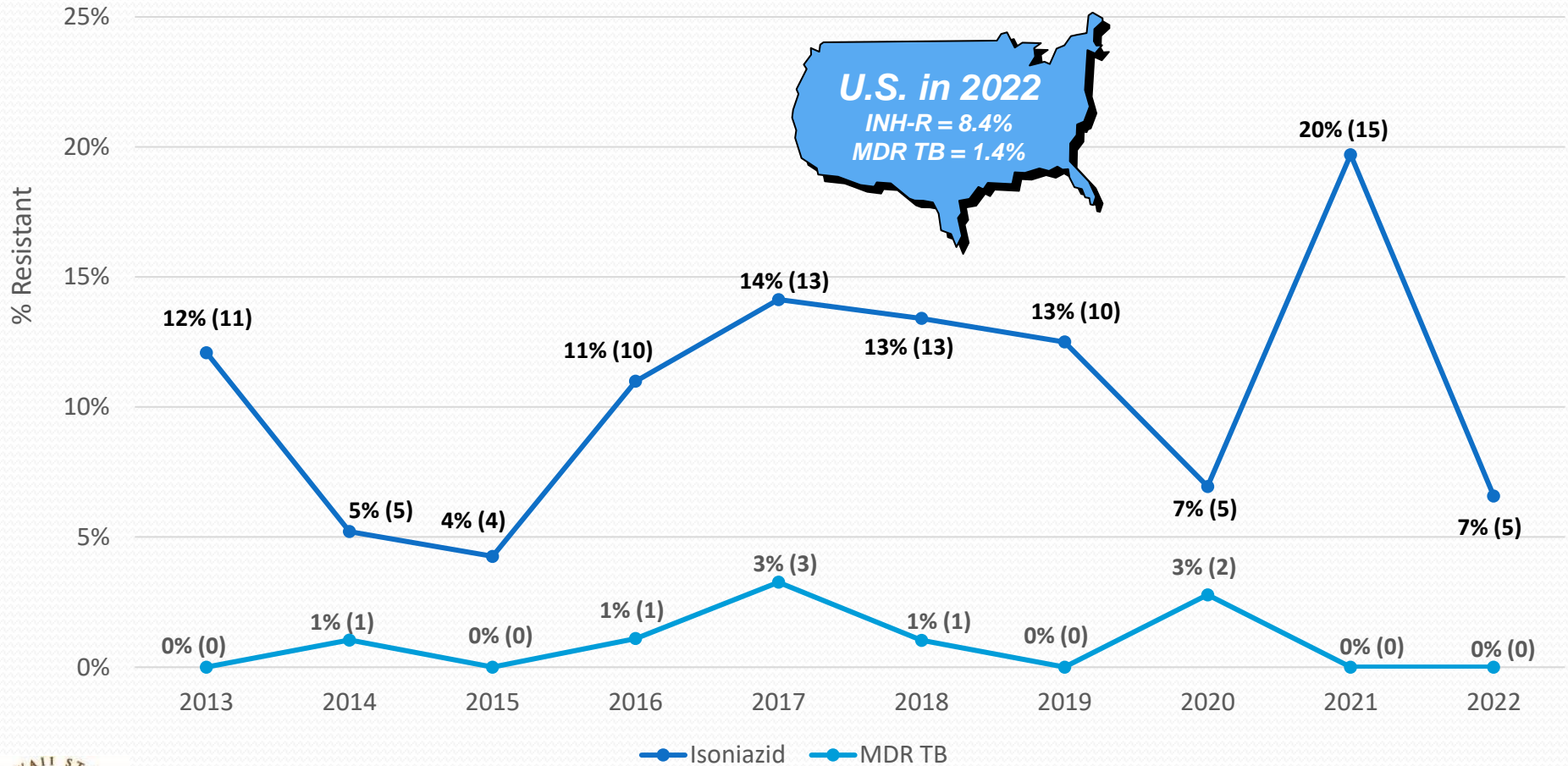
# TB Cases by Major Site of Disease Hawaii, 2022



\*Other sites include Colon (1), Liver (1), Meningeal (1), Peritoneal Only (1), Pleural & Genitourinary (1), Pleural & Peritoneal (1)



# Primary Anti-TB Drug Resistance\* Hawaii, 2013–2022

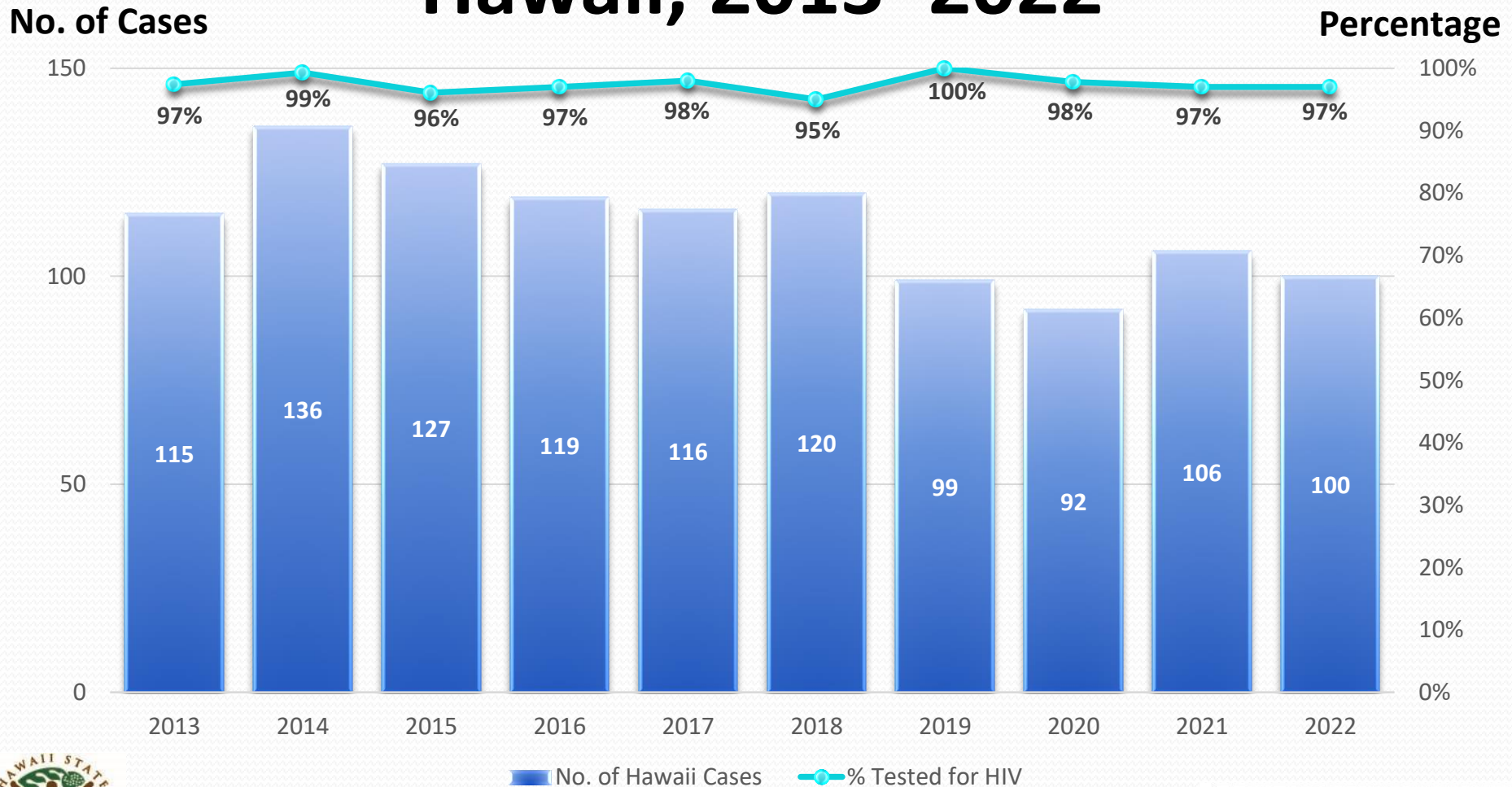


\*Cases are culture positive with initial drug susceptibility testing done. INH-R = at least resistant to INH; MDR = at least resistant to INH and RIF; isolates may be resistant to other drugs. Excludes cases with susceptibility testing not done or unknown for isoniazid and rifampin.

1/3/2024



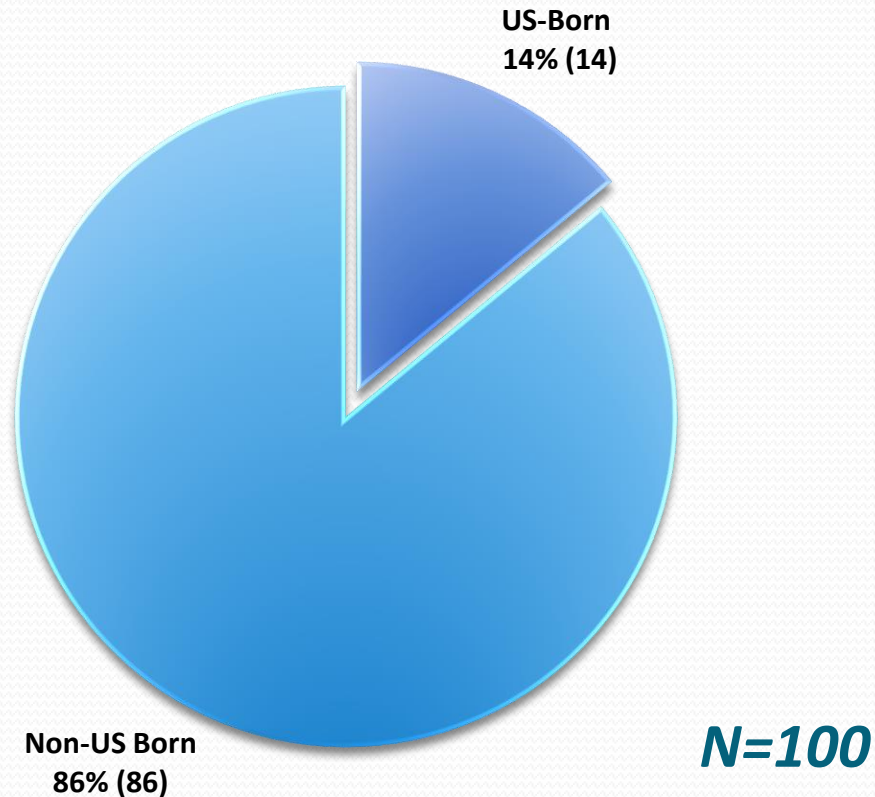
# Trends in HIV Testing Persons with TB Hawaii, 2013–2022



1/3/2024



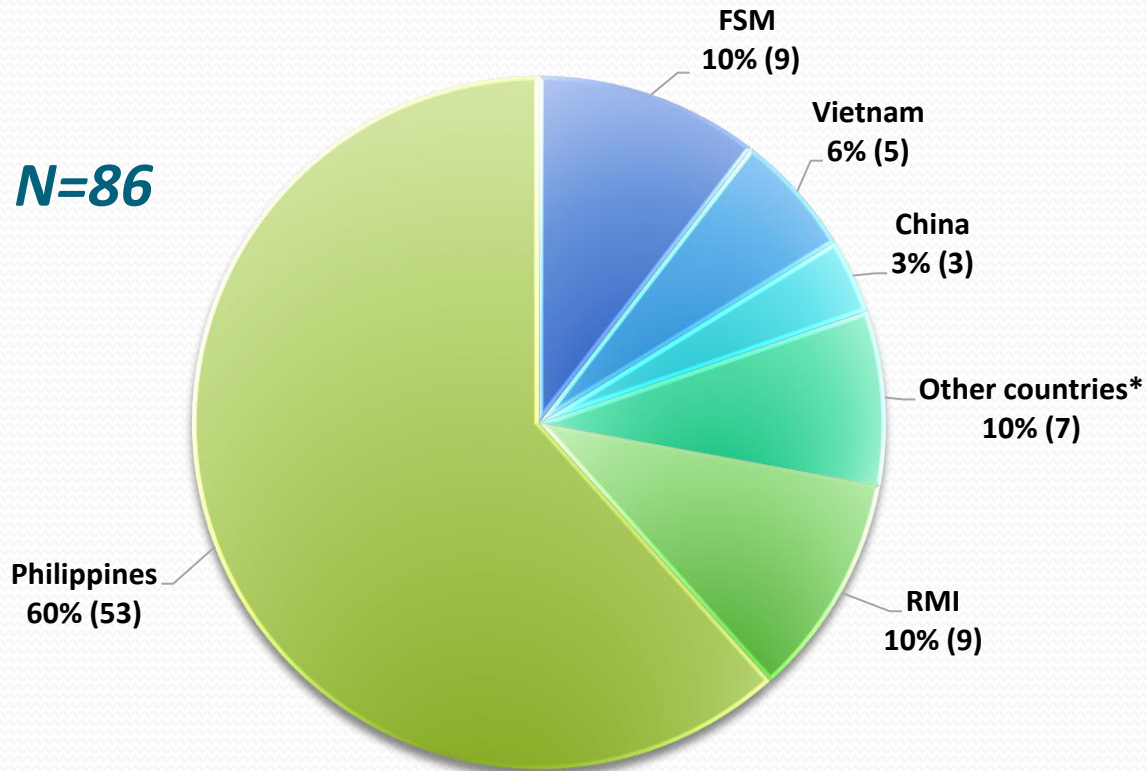
# US & Non-US Born Status of All Persons Reported with TB, Hawaii, 2022



1/3/2024



# Countries of Birth for Non-US Born Persons Reported with TB, Hawaii, 2022



\*Other countries include Republic of Korea (3), Japan (1), India (1), Indonesia (1), Laos (1)  
FSM = Federated States of Micronesia  
RMI = Republic of the Marshall Islands



# TB Cases Born in the U.S.-Affiliated Pacific Islands Hawaii, 2013–2022

Country of Birth	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
FSM*	5	11	12	6	8	9	12	8	4	9	84
Marshall Islands	5	5	10	4	14	10	11	8	10	9	86
American Samoa		1	1		1		1			1	5
Guam	2		1	1		1					5
CNMI†									2		2
Palau			1								1
<b>TOTAL:</b>	<b>12</b>	<b>17</b>	<b>25</b>	<b>11</b>	<b>23</b>	<b>20</b>	<b>24</b>	<b>16</b>	<b>16</b>	<b>19</b>	<b>183</b>
<b>Percent of Cases:</b>	<b>10%</b>	<b>13%</b>	<b>20%</b>	<b>9%</b>	<b>20%</b>	<b>17%</b>	<b>24%</b>	<b>17%</b>	<b>15%</b>	<b>19%</b>	

\*FSM = Federated States of Micronesia which includes Chuuk, Kosrae, Pohnpei, and Yap

†CNMI = Commonwealth of the Northern Mariana Islands



1/3/2024



# TB Cases among Pacific Islanders And Native Hawaiians, 2013–2022

COB & Race	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
FSM*	5	11	12	6	8	9	12	8	4	9	84
Marshall Islands	5	5	10	4	14	10	11	8	10	9	86
American Samoa		1	1		1		1			1	5
Guam	2		1	1		1					5
CNMI†									2		2
Palau			1								1
Tonga	X	X	X	X	X	X	X	X	2		2
Native Hawaiian	X	X	X	X	X	X	X	X	2	1	3
<b>TOTAL:</b>	<b>12</b>	<b>17</b>	<b>25</b>	<b>11</b>	<b>23</b>	<b>20</b>	<b>24</b>	<b>16</b>	<b>20</b>	<b>20</b>	<b>188</b>
<b>Percent of Cases:</b>	10%	13%	20%	9%	20%	17%	24%	17%	19%	20%	

\*Federated States of Micronesia which includes Chuuk, Kosrae, Pohnpei, and Yap

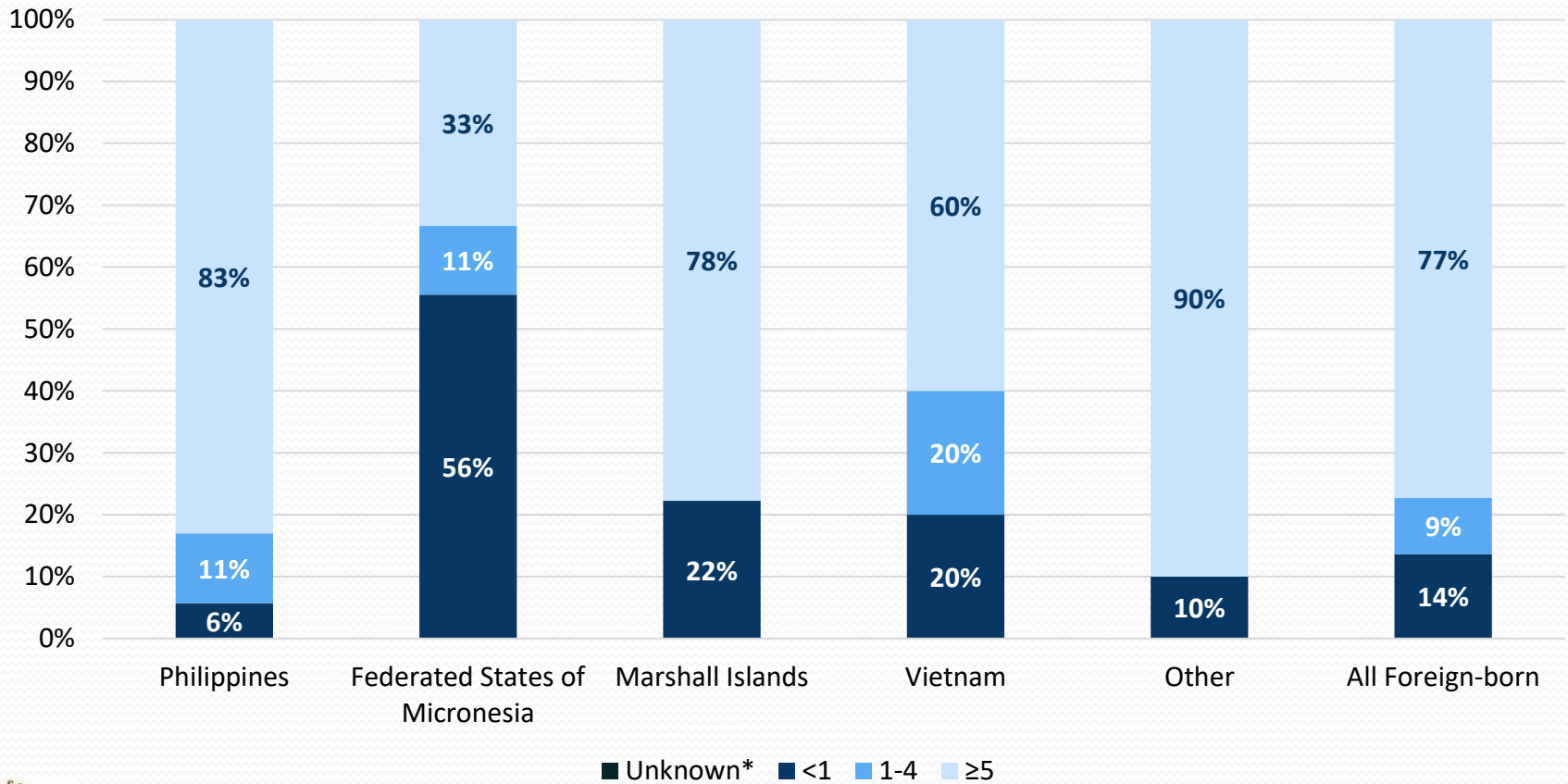
†CNMI = Commonwealth of the Northern Mariana Islands



1/3/2024



# Percent of Foreign-Born TB Cases by Years of Residence in U.S. Prior to Diagnosis Hawaii, 2022



\*Foreign-born TB cases for whom information on length of residence in the U.S. prior to diagnosis is missing or unknown  
Other includes Republic of Korea (3), Laos (1), Indonesia (1), India (1), Japan (1), China (3)

1/3/2024





# TB Cases and Case Rates by Zip Code of Residence at Time of Diagnosis, Hawaii, 2022

County & Zip Code	Cases	Case Rate (per 100,000 population)	2021 Population Estimate <sup>†</sup>
<b>Hawai'i</b>			
96720 – Hilo	1	2.0	49,886
96737 – Hawaiian Ocean View*	2	51.9	3,851
96738 – Waikoloa*	1	12.7	7,899
96740 – Kailua Village (Historical)	1	2.4	40,931
96777 – Pahala*	1	41.4	2,418
<b>Honolulu</b>			
96701 – 'Aiea*	6	14.3	41,818
96706 – 'Ewa Beach*	8	9.8	81,658
96707 – Kapolei*	4	8.0	49,903
96782 – Pearl City*	3	7.9	37,992
96786 – Wahiawa	2	4.6	43,042
96789 – Mililani Town	1	1.8	55,249
96791 – Waialua*	2	28.5	7,010
96795 – Waimānalo*	1	10.2	9,815
96797 – Waipahu*	9	12.3	72,943
96813 – Nu'uuanu/Punchbowl*	3	11.9	25,292
96814 – Ala Moana*	2	8.7	22,880
96815 – Diamond Head*	3	11.3	26,608
96816 – Wai'alae/Kāhala*	6	11.6	51,526
96817 – Kalihi/Kapālama*	6	11.1	54,183
96818 – Salt Lake/Pearl Harbor*	5	8.4	59,703
96819 – Kalihi/Moanalua*	12	23.2	51,712
96822 – Makiki/Mānoa	2	4.2	48,037
96826 – McCully/Mō'ili'i* <sup>†</sup>	3	9.8	30,592
<b>Kaua'i</b>			
96705 – 'Ele'ele*	1	42.0	2,382
96746 – Kapa'a	1	4.8	20,810
96766 – Līhu'e*	3	17.2	17,420
<b>Maui</b>			
96732 – Kahului*	3	11.4	26,361
96753 - Kīhei	2	6.8	29,547
96793 – Wailuku*	6	18.3	32,749

\*Case rate in zip code was greater than the 2022 state case rate (6.9).

<sup>†</sup>2017-2021 American Community Survey 5-year population estimates used to compute case rates was obtained from US Census Bureau. <https://data.census.gov/table>

