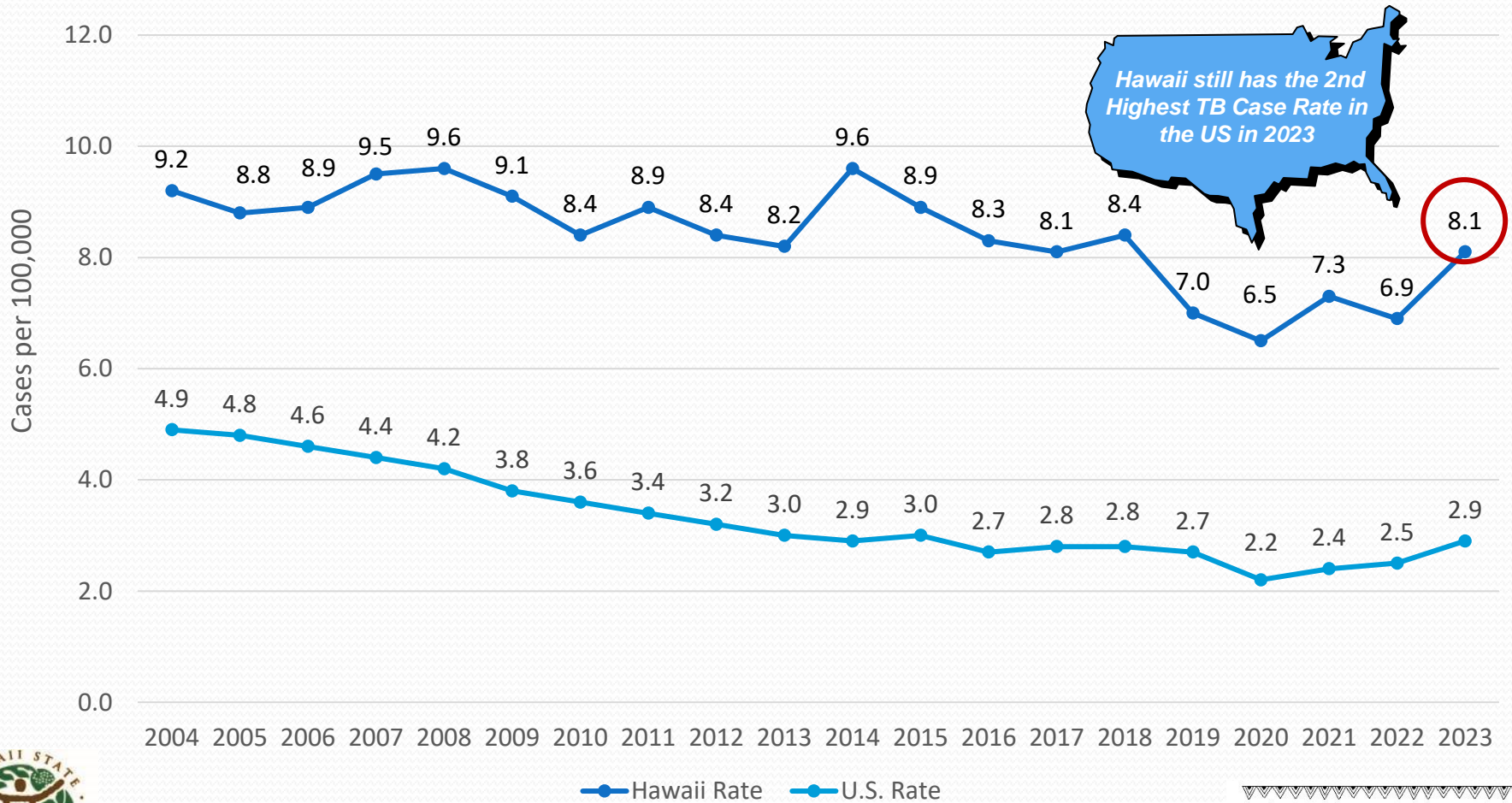


# TB Case Rates

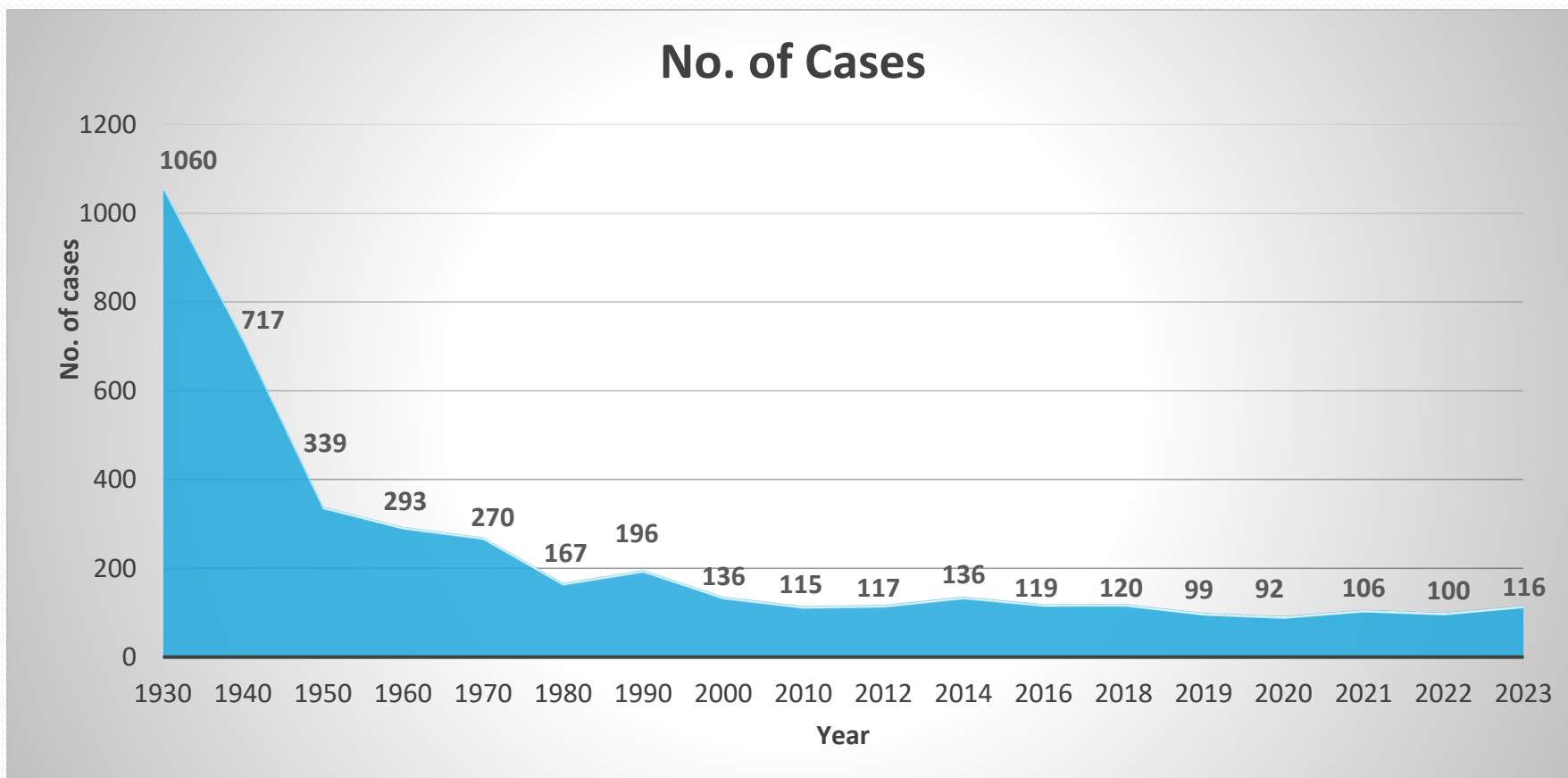
## Hawaii vs. United States, 2004–2023



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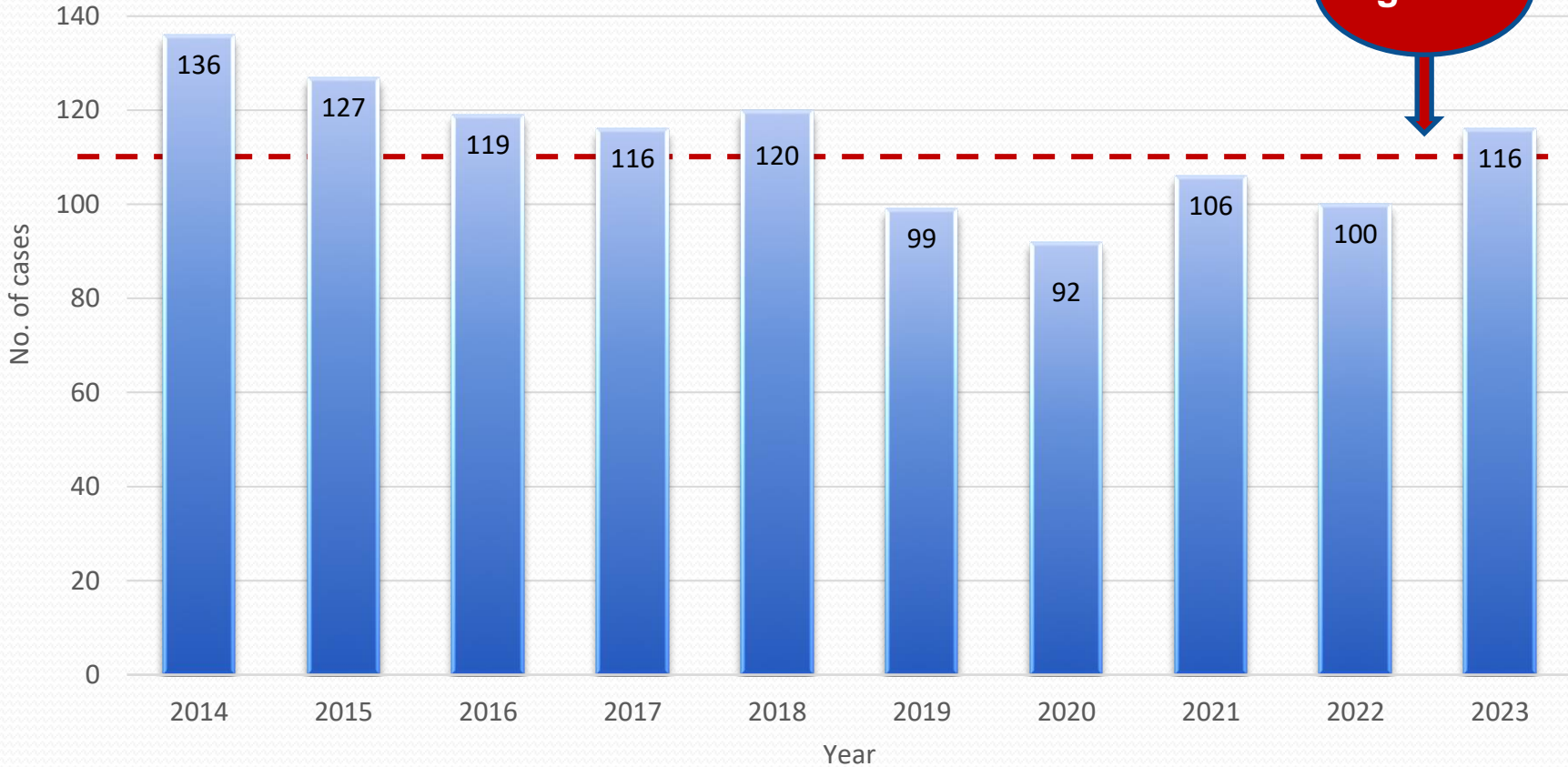
# Reported TB Cases Hawaii, 1930–2023



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# Reported TB Cases Hawaii, 2014–2023



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# TB Cases and Case Rates by County Hawaii, 2022-2023

County	No. of Cases		Case Rates (per 100,000 population)		Population Estimates*	
	2022	2023	2022	2023	2022	2023
Hawaii	6	14	2.9	6.7	206,348	207,615
Honolulu	78	82	7.8	8.3	994,828	989,408
Kauai	5	5	6.8	6.8	73,783	73,851
Maui	11	15	6.7	9.1	164,359	164,183
<b>TOTAL<sup>†</sup></b>	<b>100</b>	<b>116</b>	<b>6.9</b>	<b>8.1</b>	<b>1,439,399</b>	<b>1,435,138</b>

\*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, 2023 (accessed on 4/10/2024)

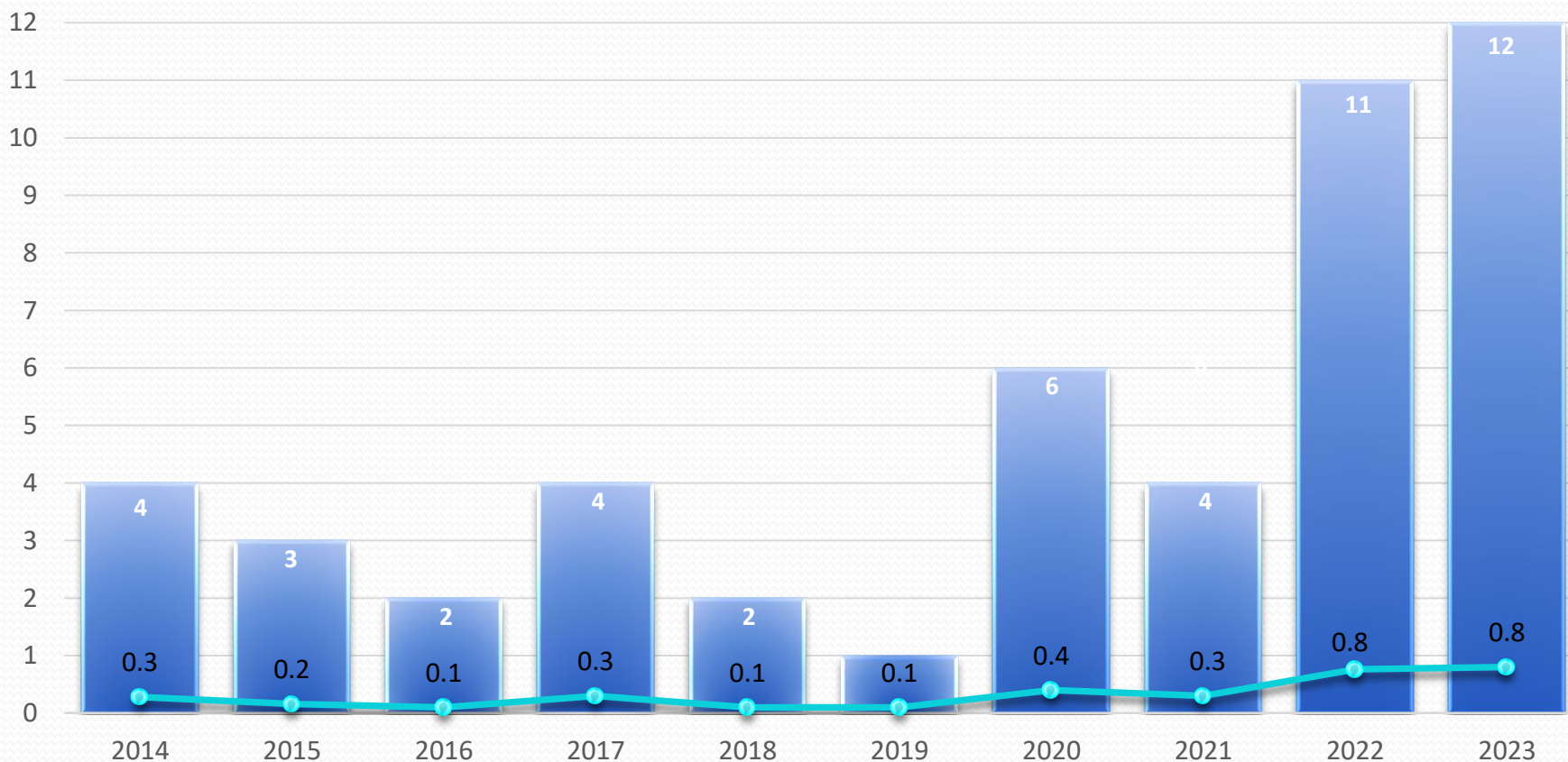
†Kalawao County population data (81 in 2022 and 81 in 2023) are added to total population estimate however no TB cases were identified in Kalawao County in 2022 or 2023



# TB-Related Deaths and Death Rates Hawaii, 2014–2023

No. of TB Deaths

Death Rate per 100,000



■ TB Deaths    ● TB Death Rate



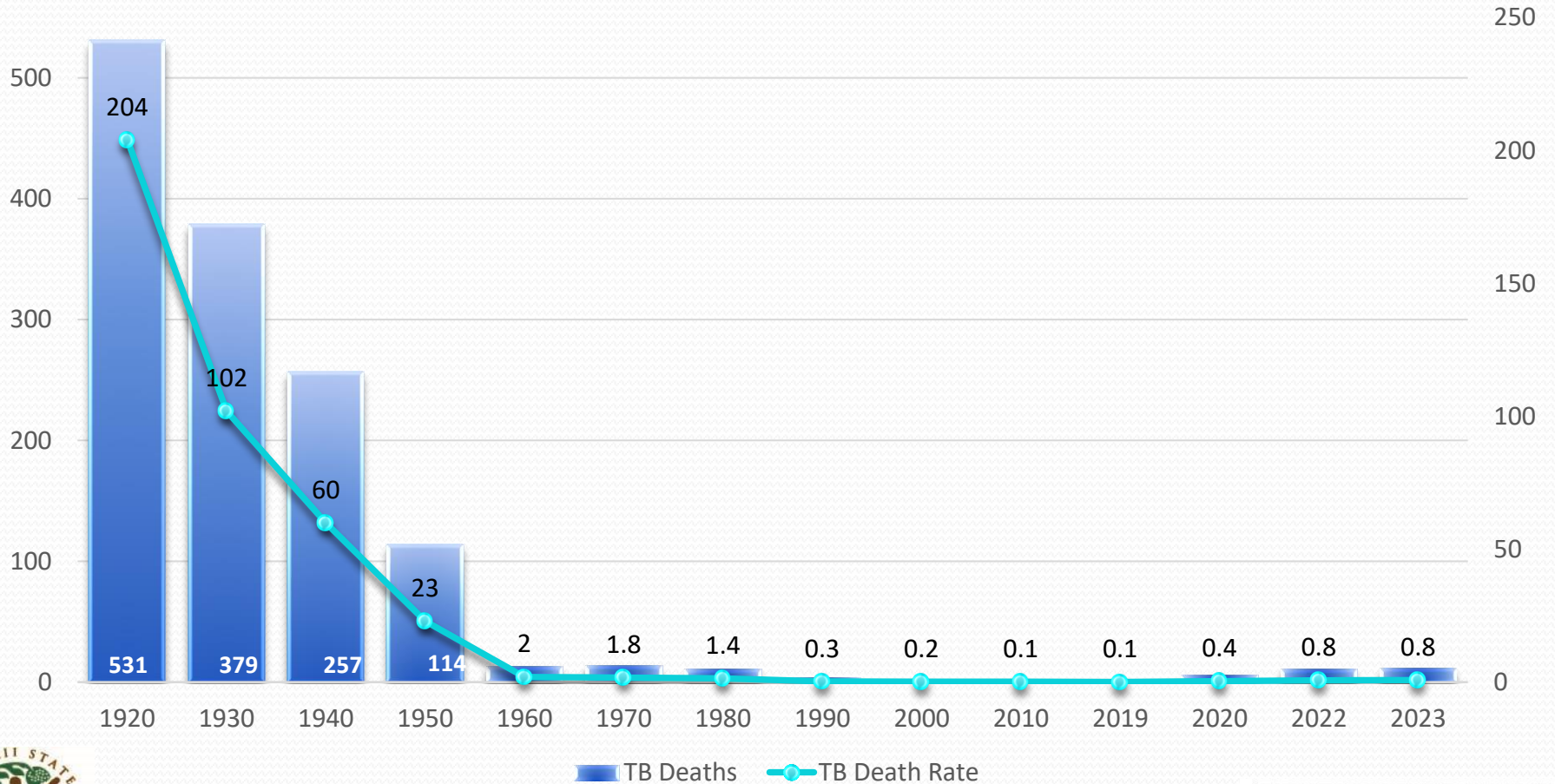
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# TB Deaths and Death Rates Hawaii, 1920–2023

No. of TB Deaths

Death Rate per 100,000

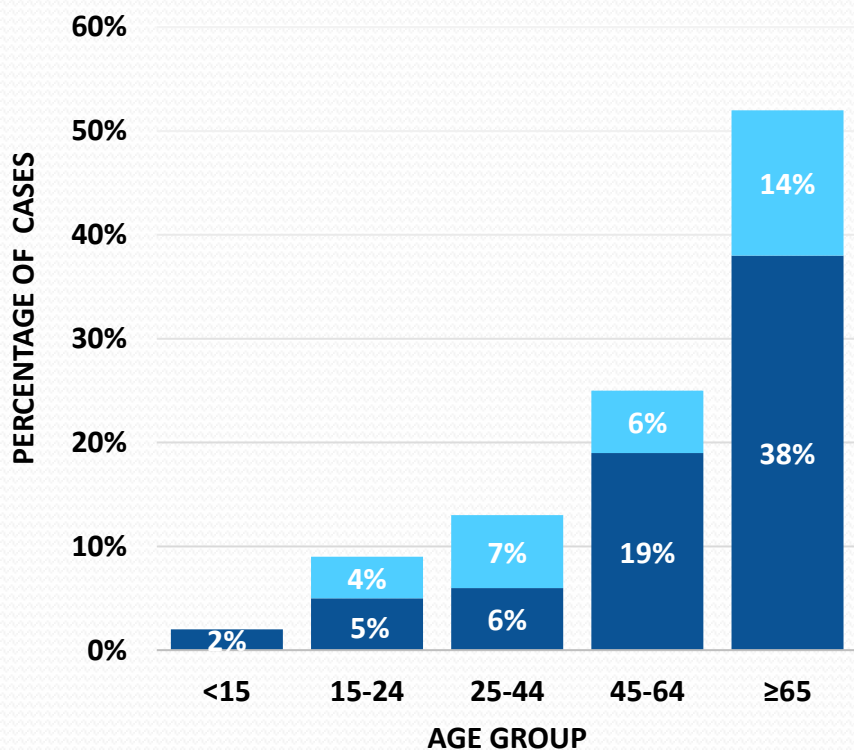


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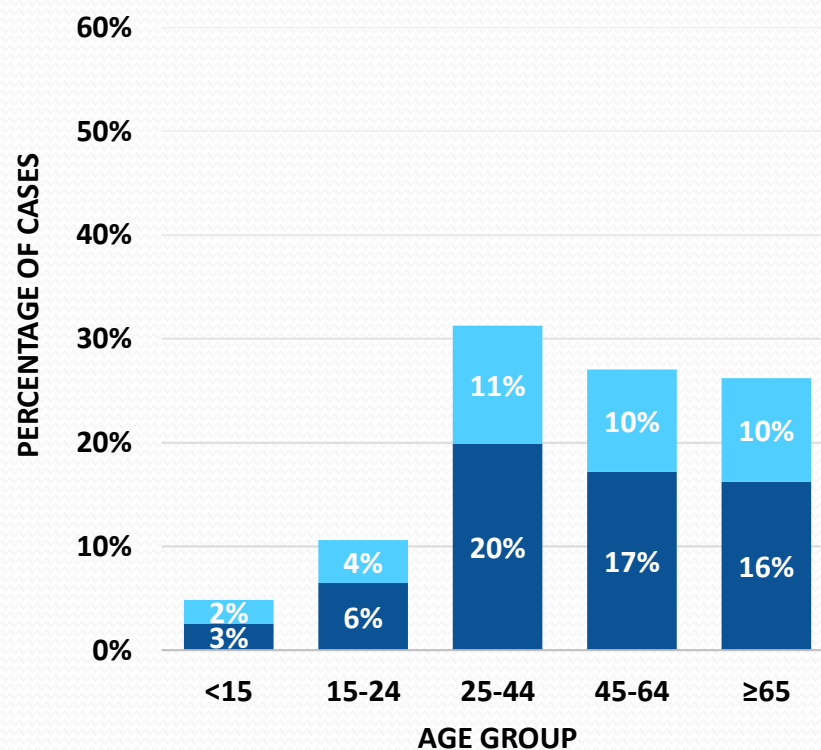


# Percent of TB Cases by Age Group and Gender Hawaii vs. United States

## HAWAII, 2023



## UNITED STATES, 2023

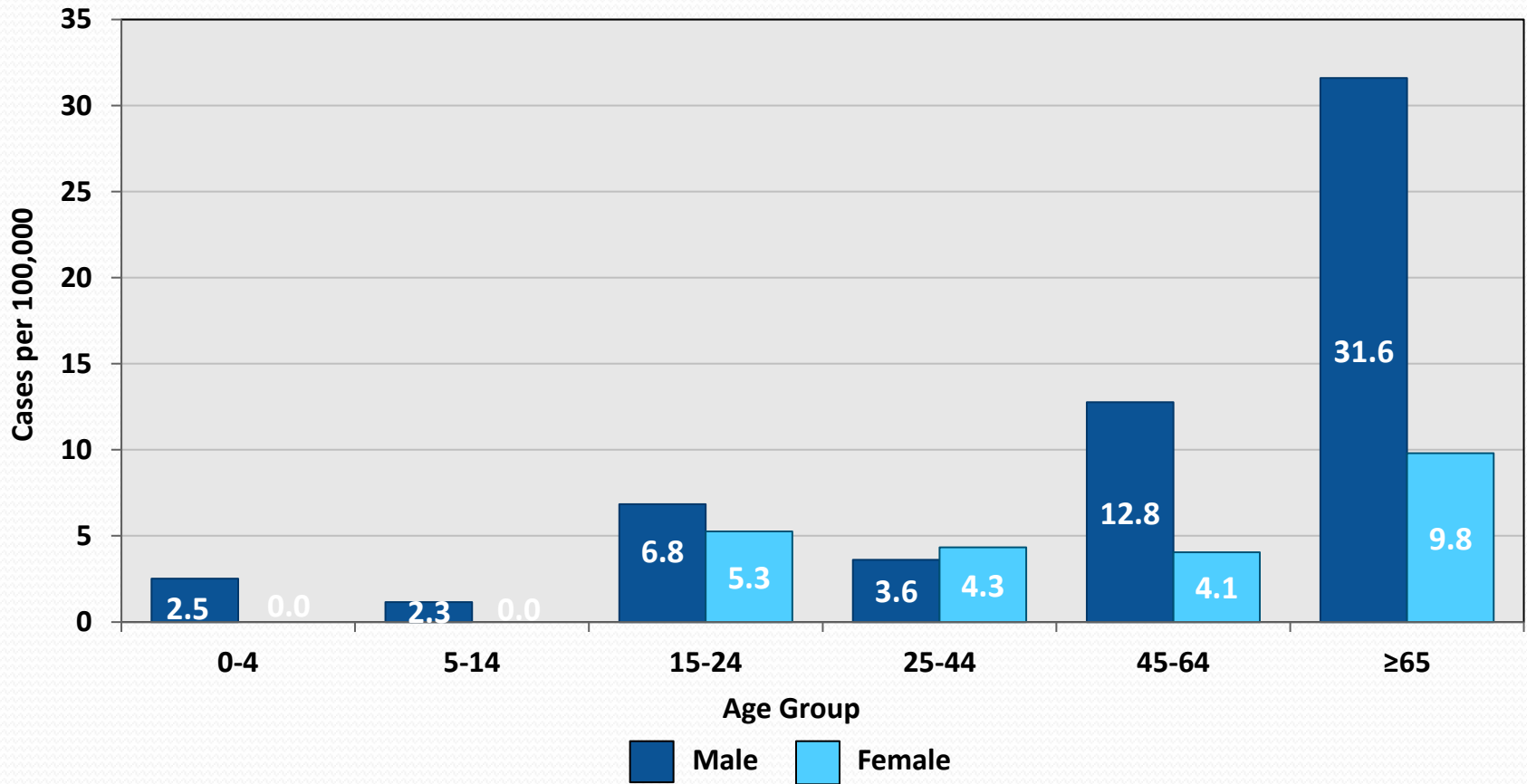


Female Male

\*Note: Total US cases by age and gender obtained from CDC, TB by Origin of Birth, Sex, and Age Group: 2023, available at <https://www.cdc.gov/tb-surveillance-report-2023/tables/table-23.html>.



# TB Case Rates by Age Group and Gender Hawaii, 2023



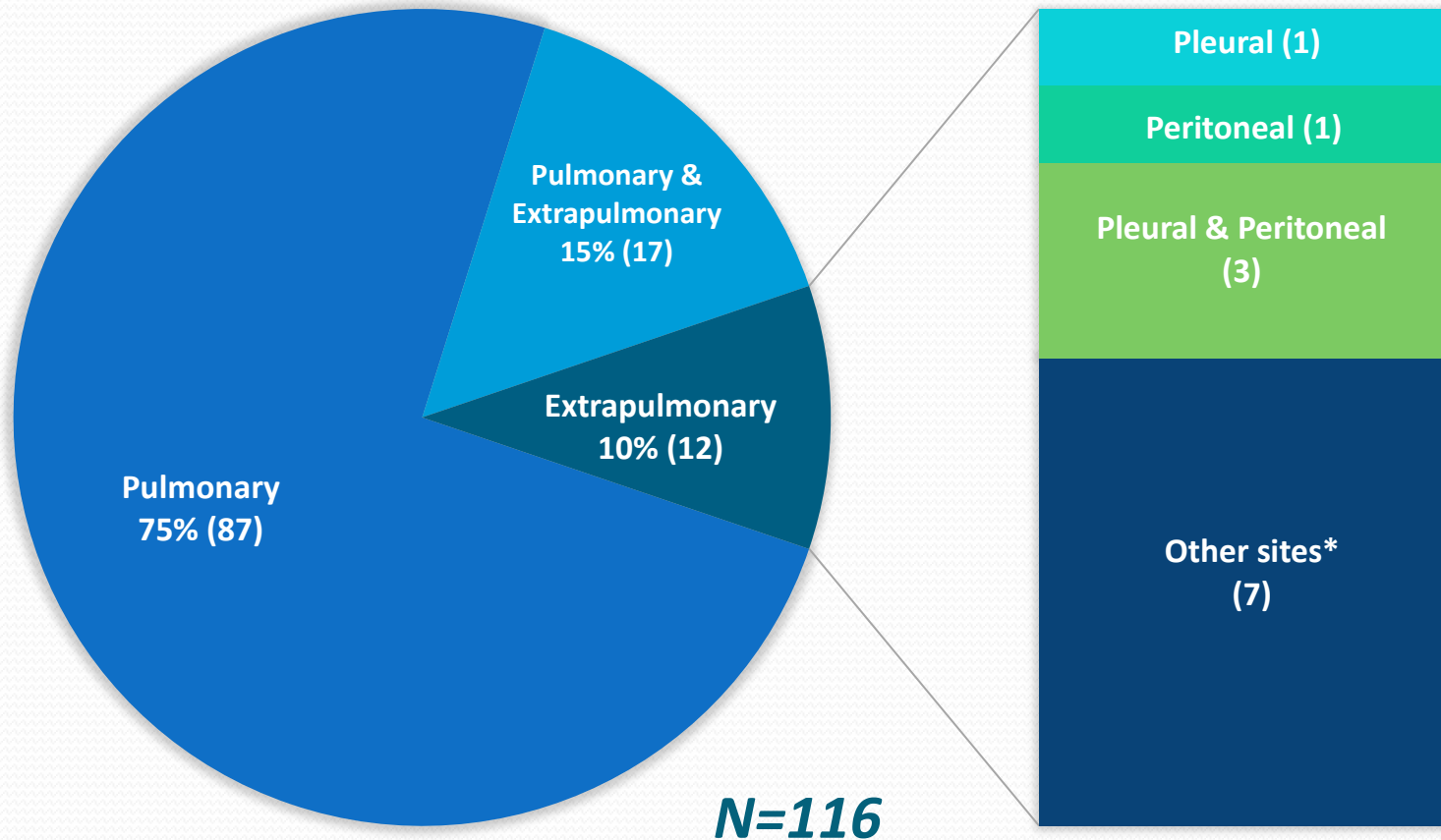
Note: Population estimates used to compute case rates were obtained from U.S. Census Bureau, Population Division, Annual Estimates of the Resident Population for Selected Age Groups by Sex for Hawaii: April 1, 2020 to July 1, 2023 (SC-EST2023-AGESEX-15), <https://files.hawaii.gov/dbedt/census/popestimate/2023//state-county-char/sc-est2023-agesex-15.pdf> (accessed on 7/31/2024)

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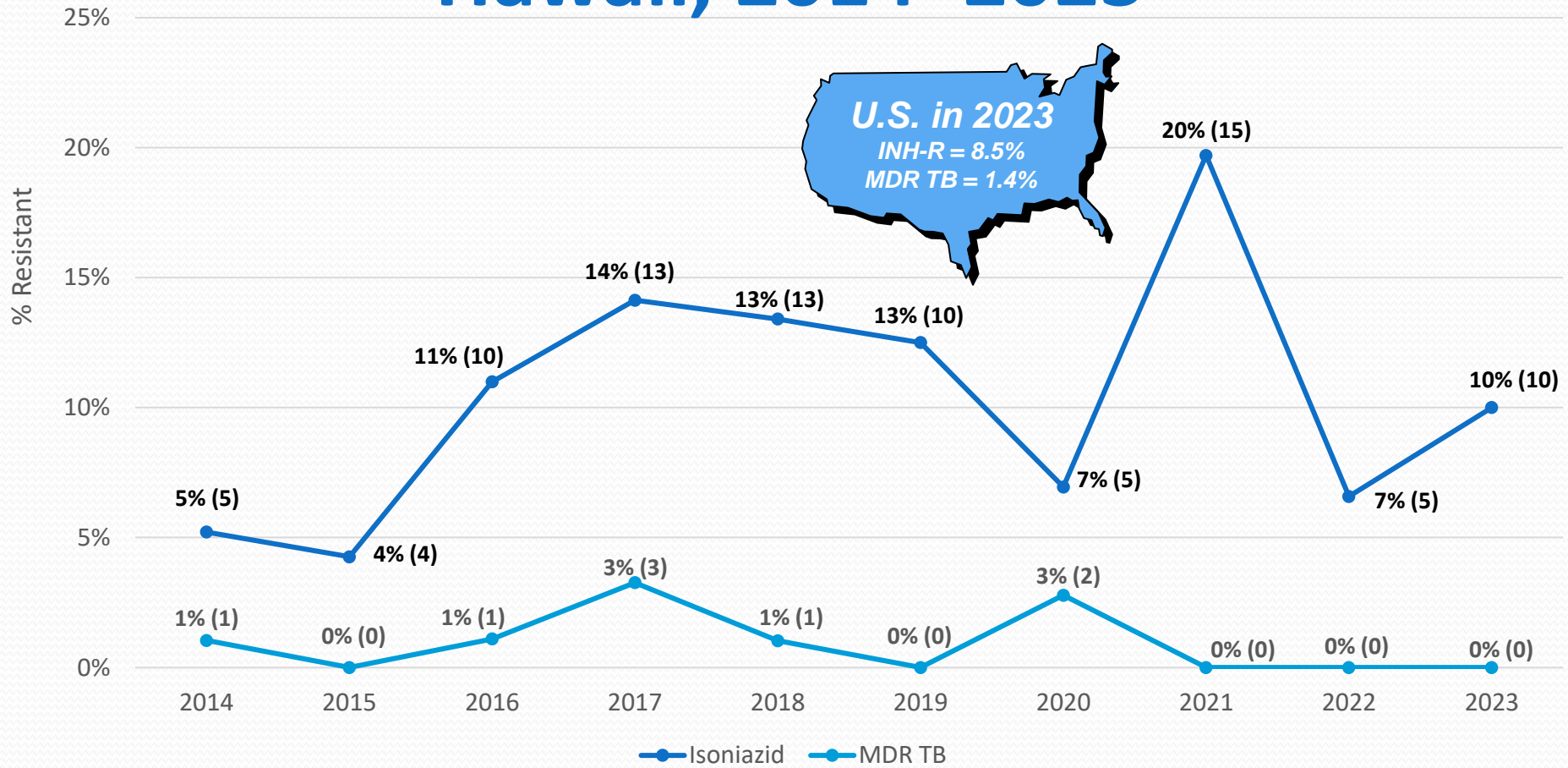
# TB Cases by Major Site of Disease Hawaii, 2023



\*Other sites include colon (1), genitourinary (1), ileocecal [GI tract] (1), liver (1), lymphatic cervical (1), lymphatic axillary & skin (1), ocular (1)



# Primary Anti-TB Drug Resistance<sup>1</sup> Hawaii, 2014–2023



<sup>1</sup>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.

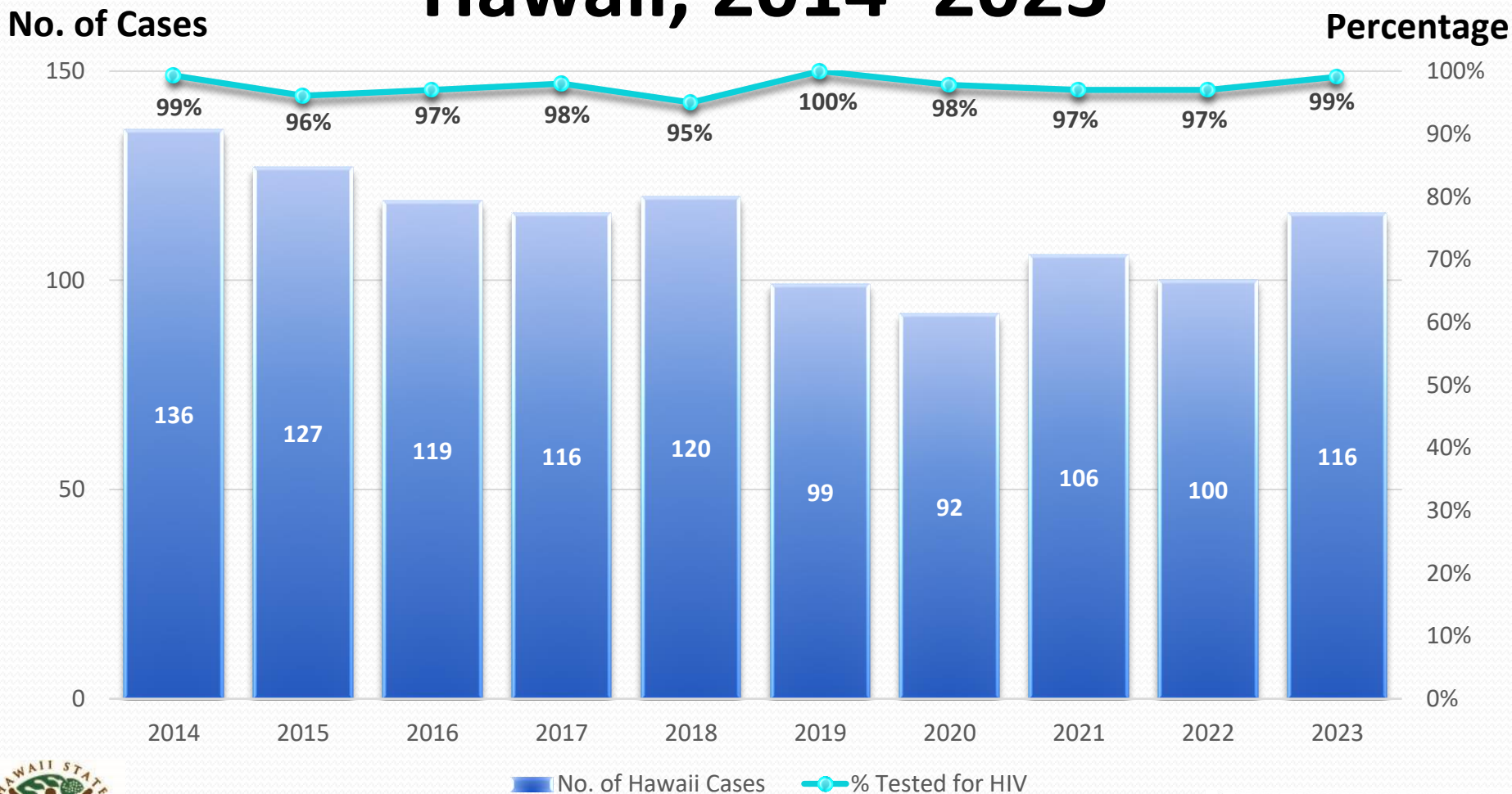
\*2023 INH-R and MDR TB U.S. statistics not available until November 2024



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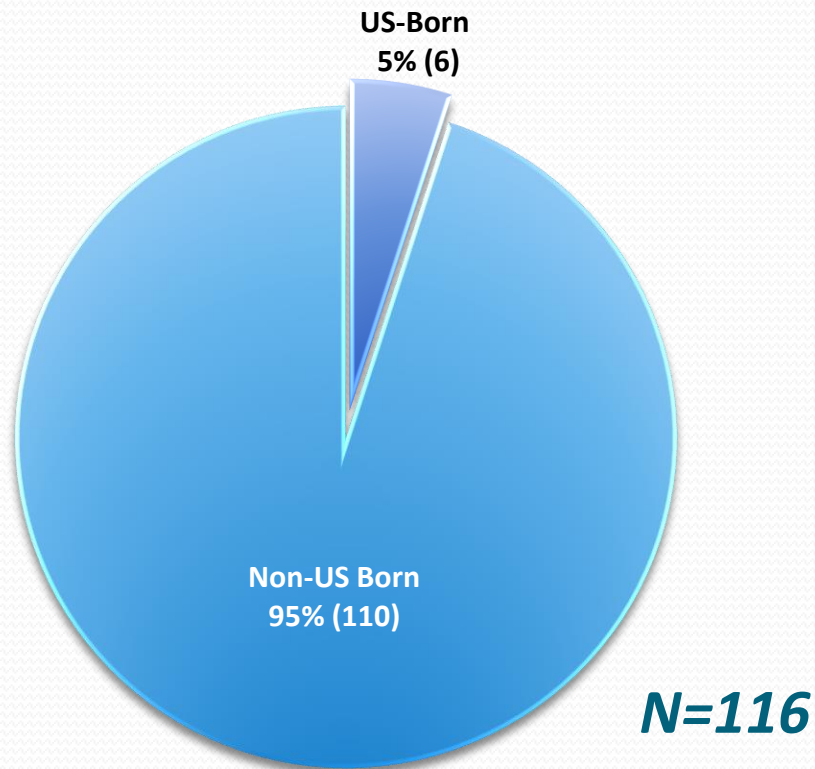
# Trends in HIV Testing Persons with TB Hawaii, 2014–2023



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# US & Non-US Born Status of All Persons Reported with TB, Hawaii, 2023



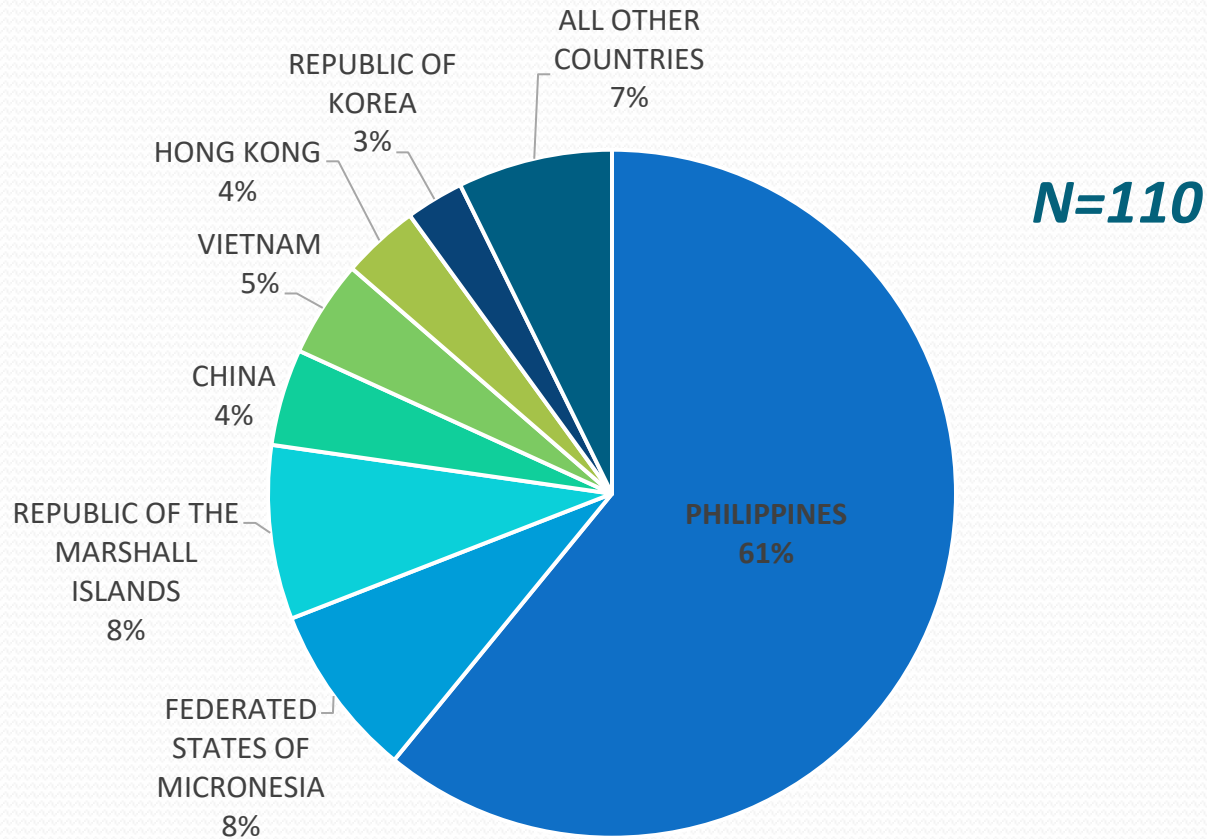
Note: US-Born cases are individuals born in the 50 states and District of Columbia



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# Countries of Birth for Non-US Born Persons Reported with TB, Hawaii, 2023



\*Other countries include Guam (1), Japan (1), Laos (1), Mongolia (1), Morocco (1), Myanmar (1), Northern Mariana Islands (1), Taiwan (1)



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# TB Cases Born in the U.S.-Affiliated Pacific Islands Hawaii, 2014–2023

Country of Birth	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
FSM*	11	12	6	8	9	12	8	4	9	9	88
Marshall Islands	5	10	4	14	10	11	8	10	9	9	90
American Samoa	1	1	0	1	0	1	0	0	1	0	5
Guam	0	1	1	0	1	0	0	0	0	1	4
CNMI†	0	0	0	0	0	0	0	2	0	1	3
Palau	0	1	0	0	0	0	0	0	0	0	1
<b>TOTAL:</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>20</b>	<b>191</b>
<b>Percent of Cases:</b>	13%	20%	9%	20%	17%	24%	17%	15%	19%	17%	

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

†CNMI = Commonwealth of the Northern Mariana Islands



# TB Cases among Non-US Born Pacific Islanders And Native Hawaiians, 2014–2023

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Total
<b>Micronesian*</b>	11	12	6	8	9	12	8	4	9	9	<b>88</b>
<b>Marshallese</b>	5	10	4	14	10	11	8	10	9	9	<b>90</b>
<b>Samoan</b>	1	1		1		1			1		<b>5</b>
<b>Guamanian or Chamorro</b>		1	1		1					1	<b>4</b>
<b>Mariana Islander†</b>								2		1	<b>3</b>
<b>Palauan</b>		1									<b>1</b>
<b>Tongan</b>	X	X	X	X	X	X	X	2			<b>2</b>
<b>Native Hawaiian</b>	X	X	X	X	X	X	X	2	1		<b>3</b>
<b>TOTAL:</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>20</b>	<b>196</b>
<b>Percent of Cases:</b>	13%	20%	9%	20%	17%	24%	17%	19%	20%	17%	

\*Individuals from the Federated States of Micronesia which includes Chuukeese, Kosraean, Pohnpeian, and Yapese

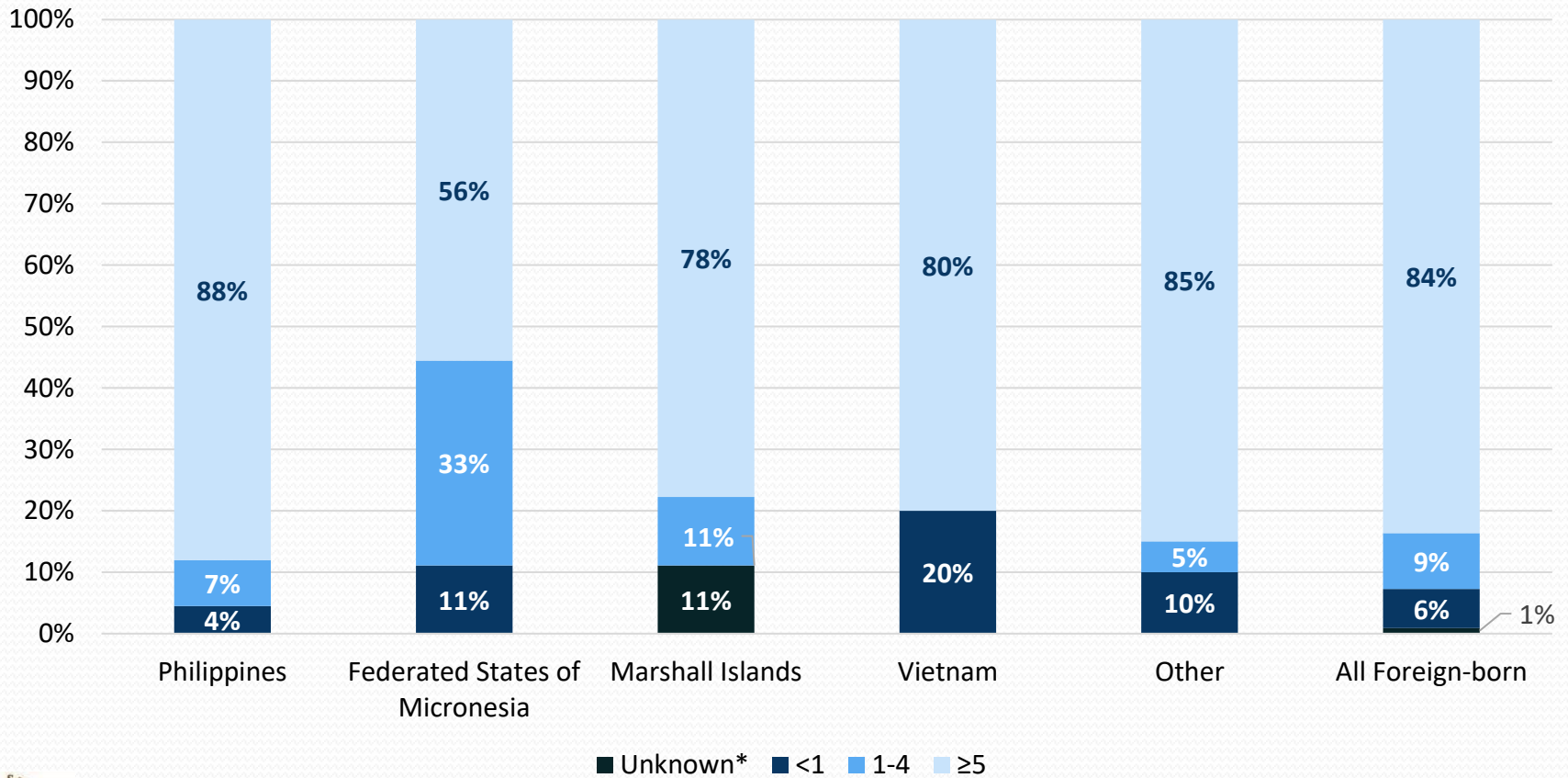
†CNMI = Commonwealth of the Northern Mariana Islands



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# Percent of Foreign-Born TB Cases by Years of Residence in U.S. Prior to Diagnosis Hawaii, 2023



\*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)

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# TB Cases and Case Rates by Zip Code of Residence at Time of Diagnosis, Hawaii, 2023

County & Zip Code	Cases	Case Rate (per 100,000 population)	2022 Population Estimate <sup>†</sup>
<b>Hawai'i</b>			
96720 – Hilo	2	4.0	50,453
96727 – Honoka'a*	2	42.4	4,721
96740 – Kailua Village (Historical)*	5	12.2	40,886
96743 – Waimea	1	7.4	13,589
96749 – Kea'au	1	5.4	18,482
96778 – Pāhoa	1	7.0	14,310
96780 – Pāpa'aloa*	1	217.9	459
96783 – Pepe'ekeo*	1	59.7	1,674
<b>Honolulu</b>			
96701 – 'Aiea	3	7.2	41,560
96706 – 'Ewa Beach	6	7.3	82,504
96707 – Kapolei	1	2.0	49,623
96712 – Hale'iwa*	1	12.0	8,359
96734 – Kailua	1	1.9	51,966
96744 – Kāne'ohe	4	7.2	55,888
96782 – Pearl City	2	5.2	38,674
96786 – Wahiawa	3	7.0	42,778
96789 – Mililani Town	3	5.5	54,362
96797 – Waipahu*	10	13.8	72,605
96813 – Nu'uuanu/Punchbowl	1	3.9	25,957
96814 – Ala Moana*	2	8.8	22,723
96815 – Diamond Head	2	7.4	27,010
96816 – Wai'ālae/Kāhala*	5	9.8	50,793
96817 – Kalihi/Kapālama*	13	23.5	55,316
96818 – Salt Lake/Pearl Harbor	4	6.9	57,938
96819 – Kalihi/Moanalua*	13	24.8	52,328
96821 – Kuli'ou'ou	1	5.3	18,802
96822 – Makiki/Mānoa	2	4.4	45,038
96826 – McCully/Mō'ili'ili*	5	16.6	30,068
<b>Kaua'i</b>			
96741 – Kalāheo*	1	16.0	6,231
96756 – Kōloa*	2	34.5	5,804
96766 – Līhu'e*	2	11.4	17,604
<b>Maui</b>			
96732 – Kahului*	4	15.4	25,902
96753 – Kīhei	2	6.9	28,909
96761 – Lahaina*	2	8.6	23,214
96768 – Makawao	1	5.4	18,662
96793 – Wailuku*	6	18.0	33,414

\*Case rate in zip code was greater than the 2023 state case rate (8.1).

<sup>†</sup>2022 American Community Survey 5-year ZCTA Estimates used to compute case rates was obtained from US Census Bureau. <https://data.census.gov/table>.

