Pediatric leading causes of death by disaggregated Asian American groups (2005-2019)

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Background

There is a significant gap in understanding pediatric leading causes of death within disaggregated Asian American and Pacific Islander (API) heritage groups in the United States.

Research Objective: Describe five leading causes of pediatric death (across 2005-2019) for disaggregated Asian American heritage groups (using data from the NVSS)

Methods

Leading causes of death across Asian American Heritage groups (NVSS, 2005-2019)

Rankable causes of death were defined based on published NCHS reports on leading causes of all races, and APIs

We reported leading causes of death according to death counts and % of total deaths

The age at death was grouped in 5-year intervals, from ages 0-19, with a special age bracket for Under 1

Results

	Asian Indian	Chinese	Filipino	Japanese	Korean	Vietnamese	White
Under 1							
1	Short gestation	Congenital abnormalities	Congenital abnormalities	Congenital abnormalities	Congenital abnormalities	Congenital abnormalities	Congenital abnormalities
2	Congenital abnormalities	Short gestation	Short gestation	Short gestation	Short gestation	Short gestation	Short gestation
3	Maternal pregnancy	Maternal pregnancy	Maternal pregnancy	Maternal pregnancy	SIDs	Maternal pregnancy	SIDs
4	Placenta cord	Placenta cord	Placenta cord	Accident	Maternal pregnancy	SIDs	Maternal pregnancy
5	Sepsis	SIDs	SIDs	SIDs	Circulatory	Tie: Placenta cord & Accident	Accident
1-4 year olds							
1	Accident	Accident	Accident	Heart	Accident	Accident	Accident
2	Congenital abnormalities	Congenital abnormalities	Malignant neoplasm	Accident	Malignant neoplasm	Congenital abnormalities	Congenital abnormalities
3	Malignant neoplasm	Malignant neoplasm	Congenital abnormalities	Malignant neoplasm	Congenital abnormalities	Malignant neoplasm	Malignant neoplasm
4	Heart	Heart	Heart	Congenital abnormalities	Flu pneumonia	Homicide	Homicide
5	Homicide	Homicide	Homicide	Benign neoplasm	Heart	Heart	Heart
5-9 year olds							
1	Accident	Malignant neoplasm	Malignant neoplasm	Accident	Accident	Accident	Accident
2	Malignant neoplasm	Accident	Accident	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm
3	Heart	Congenital abnormalities	Congenital abnormalities	Heart	Heart	Congenital abnormalities	Congenital abnormalities
4	Congenital abnormalities	Homicide	Heart	Congenital abnormalities	Congenital abnormalities	Heart	Homicide
5	Homicide	Heart	Chronic low respiratory	Suicide	Homicide	Homicide	Heart
10-14 year olds							
1	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Accident	Accident	Accident
2	Accident	Accident	Accident	Heart	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm
3	Suicide	Suicide	Suicide	Accident	Suicide	Suicide	Suicide
4	Heart	Heart	Congenital abnormalities	Suicide	Homicide	Homicide	Congenital abnormalities
5	Congenital abnormalities	Congenital abnormalities	Heart	–	Congenital abnormalities	Congenital abnormalities	Heart
15-19 year olds							
1	Accident	Accident	Accident	Accident	Accident	Accident	Accident
2	Suicide	Suicide	Suicide	Suicide	Suicide	Suicide	Suicide
3	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Malignant neoplasm	Homicide	Malignant neoplasm
4	Homicide	Homicide	Heart	Heart	Homicide	Malignant neoplasm	Homicide
5	Congenital abnormalities	Heart	Homicide	Congenital abnormalities	Heart	Heart	Heart

Discussion

We saw more differences in leading causes between Asian American groups for those aged 1-4, 5-9, and 10-14 compared with those under 1 and those aged 15-19

Findings underscore the importance of disaggregating health findings for Asian American populations

Next Steps

Incorporate data from the underlying population from the American Community Survey and calculate crude mortality rates.

Consider comparing pediatric leading causes of death among Asian American subgroups to other racial groups (ie: Black, Hispanic, etc.)

References/Acknowledgement

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