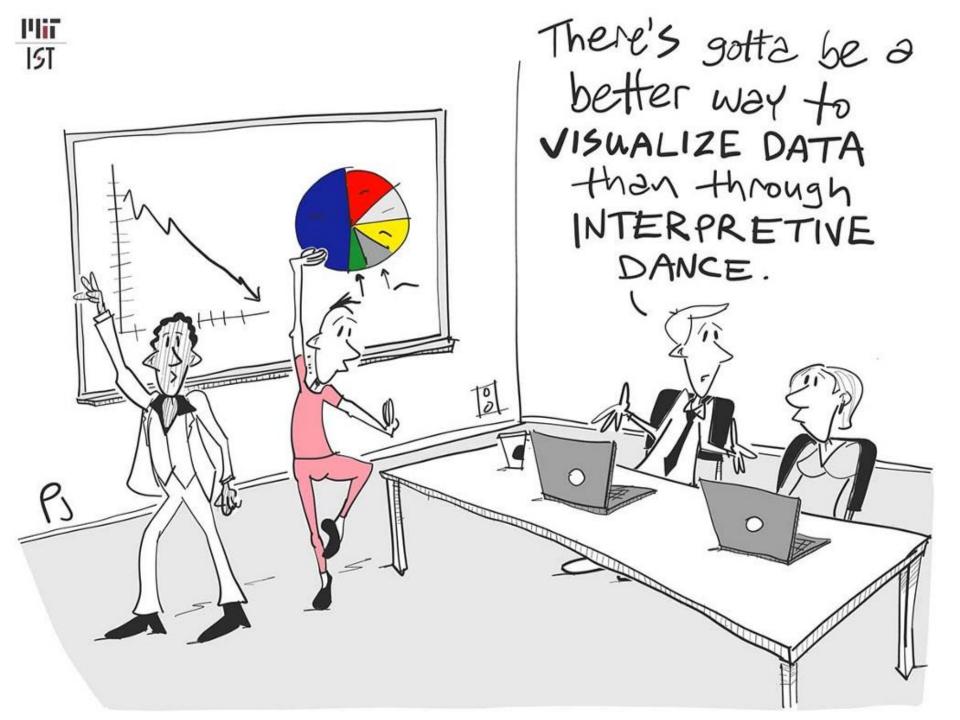


Chronic Disease Data at the Tennessee Department of Health

Thursday, June 3, 2021









Hospital Discharge Data System

Hospital Discharge Data System (HDDS)

 Collects and summarizes patient diagnosis and procedure data from every hospital in TN enabling research on a broad range of public health and health policy issues

Population

Inpatient and outpatient patients from 168 TN hospitals plus 6

mental health hospitals



HDDS – (Some) Data Variables

- Patient name, address, sex, birth date, SSN
- Admission date
- Revenue codes (for payment)
- Payer ID/Health Plan ID
- Employer name (of patient)
- Principle Diagnosis code, Other Diagnosis codes (ICD-9/10)
- Procedure code(s)
- Patient's reason for visit
- Provider name



HDDS - Uses

- Compare rates of hospitalizations in different geographic areas to determine disease clusters
- Examine data to gauge the delivery of health care services to patients
 - Cost and type of inpatient hospitalizations
 - Number of severity of motorcycle accidents
- Produce disease-specific reports







Ambulatory Surgical Treatment Center and Outpatient Diagnostic Center Data

Ambulatory Surgical Treatment Center and Outpatient Diagnostic Center Data System (ASTC-ODC)

 Collects and summarizes patient claims data from TN ambulatory surgical treatment centers (ASTC) and outpatient diagnostic centers (ODC)

Definitions

- ASTC: facilities that perform surgeries and treatments that don't necessarily require hospital admission. ASTCs are thought to provide cost-effective services and a convenient environment that is less stressful and expensive than what many hospitals can offer.
- ODC: facilities that provide diagnostic tests, including, X-rays, mammography MRI's, CT scans, and lab services







Behavioral Risk Factor Surveillance System (BRFSS)

Behavioral Risk Factor Surveillance System (BRFSS)

 Telephone survey (cell and landline) that collects individual data from TN residents ages 18+ on healthrelated risk behaviors, chronic health conditions and the use of preventive services

Importance:

 Only source of state-based health risk behavior data related to chronic disease prevalence

 Collects data from all 50 states, DC, and three U.S. territories



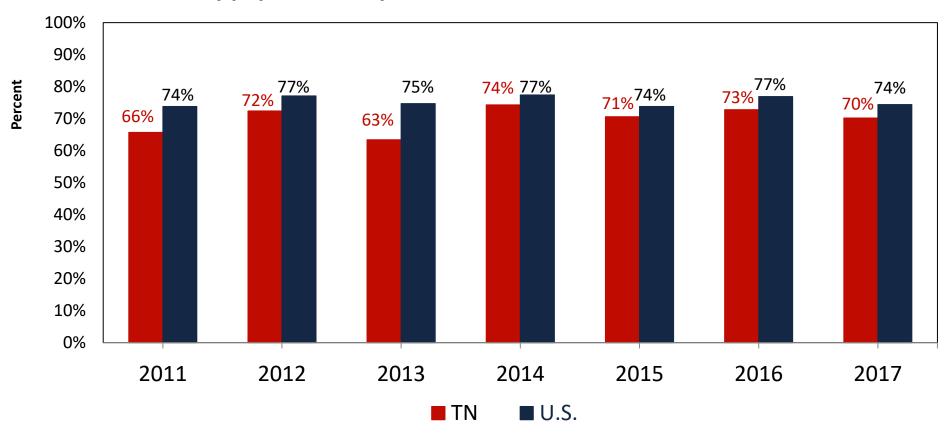
Behavioral Risk Factor Surveillance System (BRFSS)

Core Sections
Section 1: Health Status
Section 2: Healthy Days
Section 3: Health Care Access
Section 4: Physical Inactivity
Section 5: Chronic Health Conditions
Section 6: Tobacco Use
Section 7: Alcohol Consumption
Section 8: Immunization
Section 9: HIV/AIDS
Section 10: Arthritis Management
Section 11: Cholesterol Awareness
Section 12: Demographics
Section 13: Fruits and Vegetables
Section 14: Hypertension Awareness
Section 15: Closing Statement



Behavioral Risk Factor Surveillance System

During the past month, other than your regular job, did you participate in any physical activity or exercises? TN and US, 2011 - 2017

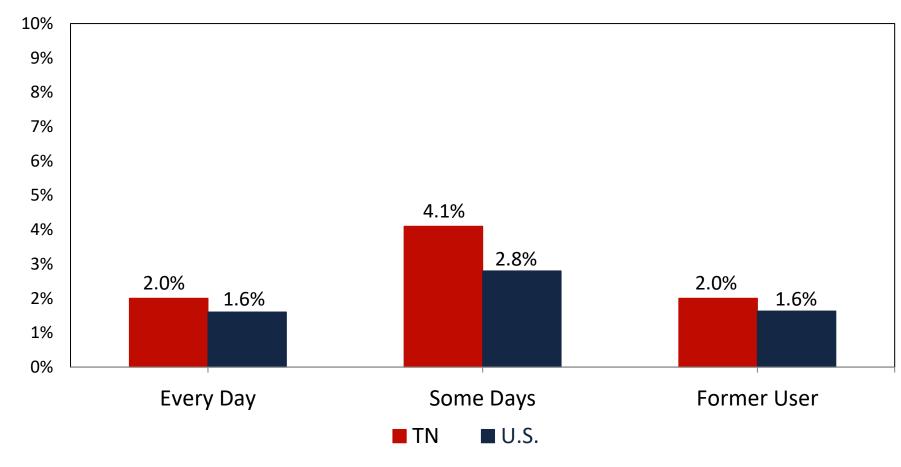


Source: Tennessee and US Behavioral Risk Factor Surveillance System (BRFSS)



Behavioral Risk Factor Surveillance System

E-cigarette use, TN and US, 2017



Source: Tennessee and US Behavioral Risk Factor Surveillance System (BRFSS)







Injury Surveillance Program

Injury Surveillance Program (ISP)

- Collects data on injuries occurring in Tennessee to inform prevention efforts.
- Current Focus
 - Motor vehicle crash injuries/fatalities in the state of TN
 - Merging hospital, death and motor vehicle data
 - Mapping this analysis with traffic accidents
 - Firearm injuries and fatalities







Occupational Health and Safety Surveillance Program

Occupational Health & Safety Surveillance Program (OHSSP)

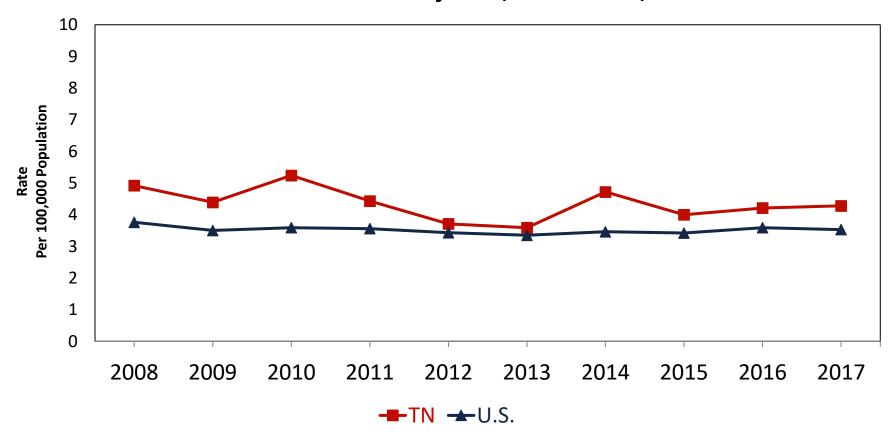
Compiles, analyzes and assesses health data to monitor trends and progress in occupational health and safety to reduce the incidence of occupation-related injuries in Tennessee.





Occupational Health & Safety Surveillance Program

Rate of fatal work-related injuries, TN and US, 2013 - 2017



Source: Bureau of Labor Statistics (BLS), Census of Fatal Occupational Injuries 2008 - 2017







Pregnancy Risk Assessment Monitoring Survey (PRAMS)

Pregnancy Risk Assessment Monitoring Survey (PRAMS)

 Collects state data on maternal attitudes and experiences before, during and shortly after pregnancy to improve the health of mothers and infants

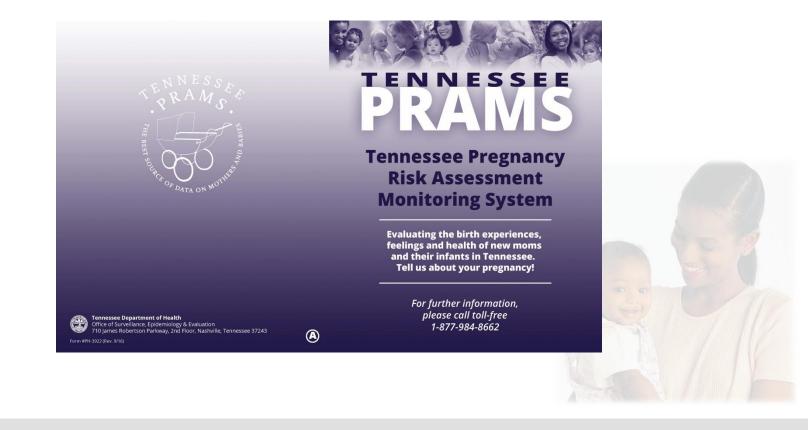
Importance:

- Only source of maternal data of this magnitude
- Collects data from 48 states and DC and permits comparison across states if response rate is met (55%)
- PRAMS surveillance currently covers about 83% of all U.S. births



PRAMS Methodology (Survey administration)

- Methodology to obtain responses:
 - Three survey mail outs (not including reminder cards)





PRAMS Methodology (Survey administration)

- Methodology to obtain responses:
 - Three survey mail-outs
 - Two gift incentives





PRAMS Methodology (Survey administration)

- Methodology to obtain responses:
 - Three survey mail-outs
 - Two gift incentives
 - 15 phone attempts
 - Walmart gift card







PRAMS Questions

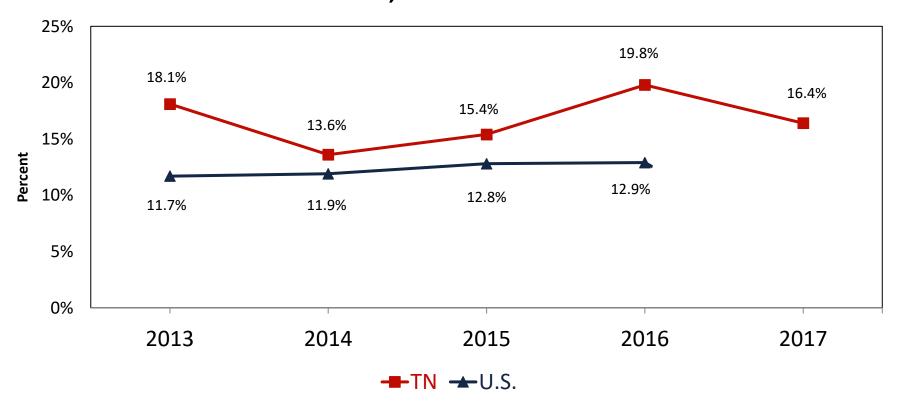
- Demographics
- Insurance status
- Healthcare visits
- Family Planning
- Flu shot
- Smoking/Alcohol Use
- Intimate Partner Violence
- Breastfeeding
- Mother's mental health
- Opioids
- Covid-19





Pregnancy Risk Assessment Monitoring Survey (PRAMS)

Postpartum Depressive Symptoms Among Mothers, TN and US, 2013 - 2017



2017 PRAMS data for U.S. not available as of 4/16/2019.

Source: Tennessee Pregnancy Risk Assessment Monitoring System (PRAMS), 2013 - 2017



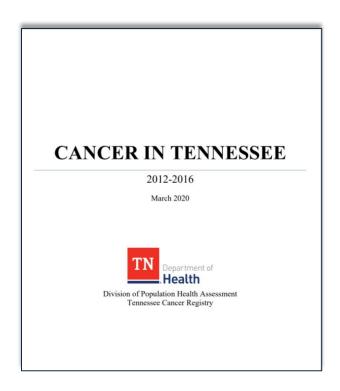




Tennessee Cancer Registry

Tennessee Cancer Registry (TCR)

 Collects and reports on cancer incidence in Tennessee residents diagnosed with a new case of cancer or benign CNS tumor

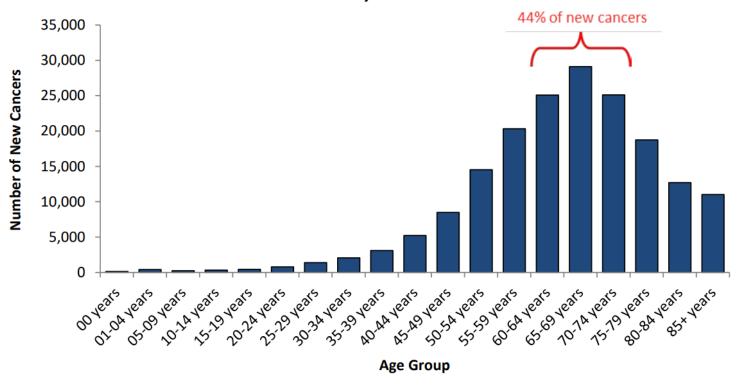






TCR Data

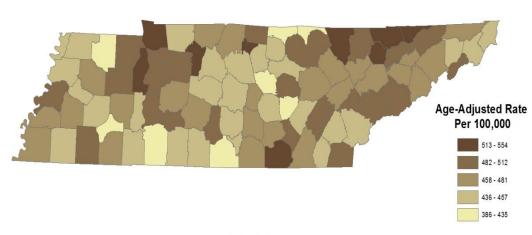
Figure 1. Cancer Incidence, By Age at Diagnosis, Tennessee, 2012-2016





TCR Data





Mortality







Joint Annual Reports (JARs)

Joint Annual Reports (JARs)

Function

 Collects data from a variety of licensed health facilities through annual reports known as Joint Annual Reports (JARs)

Data Collected

 Facility locations, services provided, patient origin by county, and financial indicators.





Vital Statistics

Vital Statistics

- Function
 - Collects data on deaths, births, marriages and divorces
- Data Collected
 - Death: Overall TN resident mortality for all causes of death, leading causes of death, and demographic details for selected causes of death
 - Birth: Special published reports on the Vital Records website includes statistics on general and age-specific fertility rates, infant health conditions (e.g. preterm birth and low birthweight), and breastfeeding initiation.
 - Marriage and Divorces





Traumatic Brain Injury

Traumatic Brain Injury

 Information on traumatic brain injuries, including information by select demographic categories



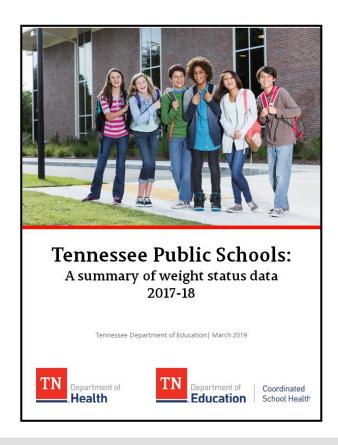
Maternal Mortality Annual Report

Maternal Mortality Annual Report

Annual report on maternal causes of deaths.

Special Projects

- Provides analytical and GIS support across the Department of Health
- BMI Report





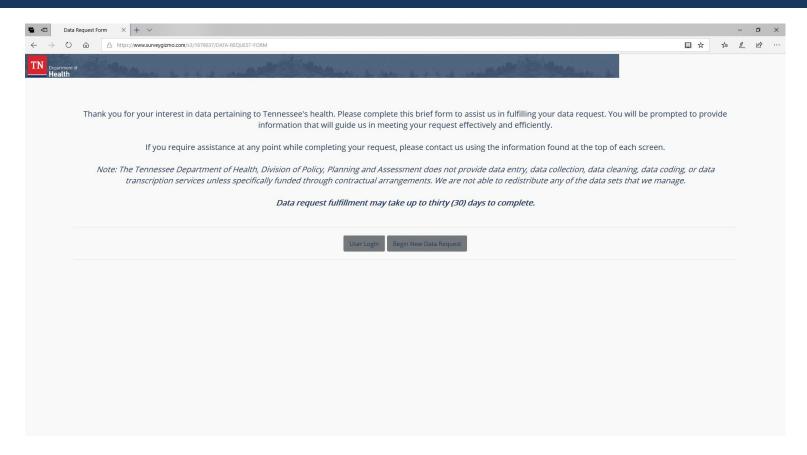


Childhood Asthma in Tennessee 2007 - 2016

Tennessee Department of Health | May 2019



TDH Data Request Procedure



https://www.surveygizmo.com/s3/1879037/DATA-REQUEST-FORM



Our Data Request Procedure

 For assistance with data request procedure or to answer questions please contact:

Dr. Nash Aragam
Office of Informatics and Analytics
Phone: (615) 741-1954
data.health@tn.gov



Data Sharing Restrictions

- HIPAA Privacy Rule: a set of national standards for the protection of certain health information.
 - A major goal is to assure that individuals' health information is properly protected while allowing for the flow of health information needed to provide and promote high quality health care and protect the public's health and well being.
- If patient-level, identifiable data is requested, data request must go through approval process with the TN Institutional Review Board (IRB).
- Interagency data sharing agreements





Questions?

Thank you

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