

PRESCRIPTION DRUG EPIDEMIC IN TENNESSEE

Presented by:

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**Tennessee Department of Mental Health and
Substance Abuse Services**

THIS IS WHAT WE ARE TALKING ABOUT



PRESCRIPTION DRUG EPIDEMIC IN TENNESSEE

- Tennessee ranks 2nd in the US for the rate of opioid pain relievers sold per 10,000 persons (26 lbs./10,000 persons).¹
- Prescription opioids rank as the #1 abused substance among individuals receiving TDMHSAS funded treatment services in 2013.²
- From 2012 to 2013 – an 18% increase in the percent of criminal justice offenders admitted to TDMHSAS funded treatment abusing opioids.²
- Cost of caring for children in state custody related to youth or parental substance abuse increased from \$29 million in 2008 to \$52 million in 2011.³

Sources:

¹ Centers for Disease Control and Prevention. MMWR weekly: Vital signs: overdose of prescription opioid pain relievers ---United States, 1999-2008.

² Tennessee Department of Mental Health and Substance Abuse Services (2014)

³ Tennessee Department of Children's Services (2012)

PRESCRIPTION DRUG EPIDEMIC IN TENNESSEE

Number of controlled substance prescriptions (by class) reported to Controlled Substances Monitoring Database (CSMD), 2010 - 2013*

| Year | Opioids | % Change | Benzodiazepines | % Change | Other | % Change |
|--------|-----------|----------|-----------------|----------|-----------|----------|
| 2010 | 8,150,946 | - | 3,951,144 | - | 4,423,662 | - |
| 2011 | 9,018,139 | 10.6% | 4,152,587 | 5.1% | 5,001,445 | 13.1% |
| 2012 | 9,265,450 | 2.7% | 4,061,418 | -2.2% | 5,125,142 | 2.5% |
| 2013** | 9,227,456 | -0.4% | 3,913,356 | -3.6% | 5,433,347 | 6.0% |

* Classes of controlled substances were defined based on CDC guidance document.

** April 1, 2013 all prescribers in Tennessee were required to check the CSMD

Source: 2014 Report to the 108th General Assembly by the Tennessee Department of Health Controlled Substance Database Advisory Committee, Board of Pharmacy.

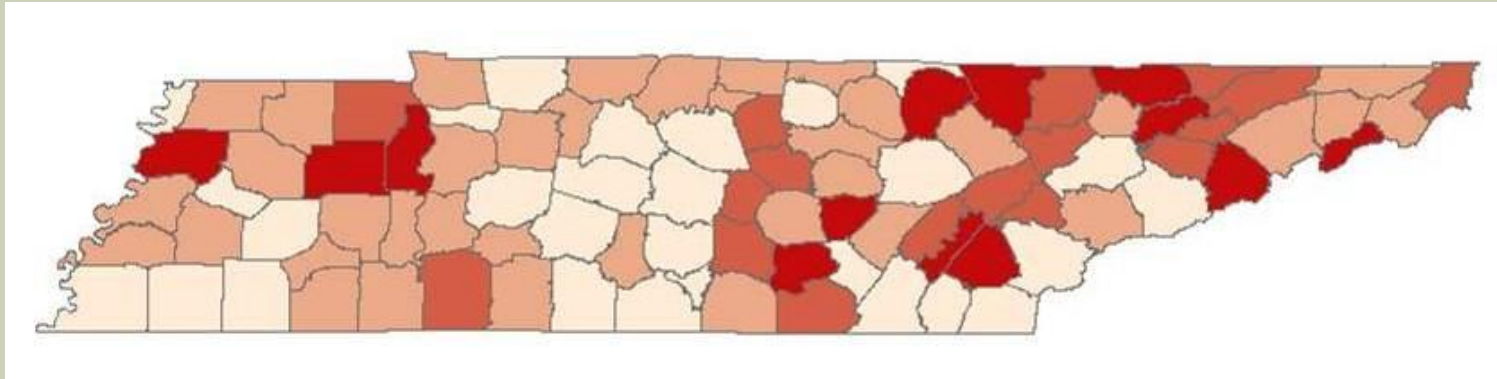
PRESCRIPTION DRUG EPIDEMIC IN TENNESSEE

- In 2012, 42.3% of pregnant women served by TDMHSAS funding listed prescription opioids as their primary substance of abuse, compared to 18.4% in the United States.
- In 2012, Tennessee 10th and 12th graders stated the average age at which they first abused prescription opioids was 14.
- Number of all TDMHSAS treatment admissions for prescription opioids jumped from 5.5% - 30.7% from 2000-2012, compared to 1.5% - 9.4% in the United States.

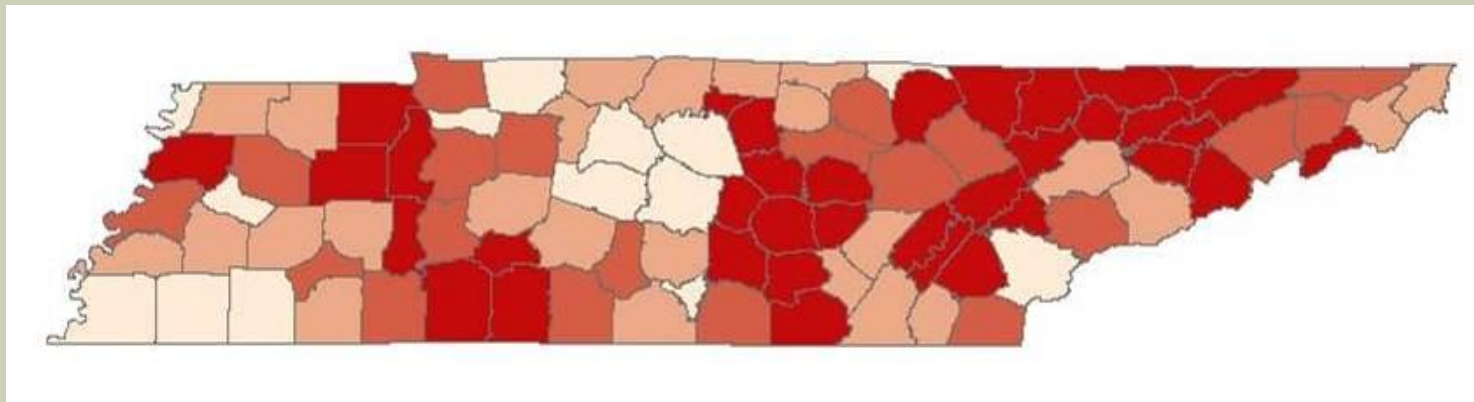
Source: Tennessee Department of Mental Health and Substance Abuse Services (2014)

PRESCRIPTION DRUGS EPIDEMIC IN TN

Opioid prescription rates by county TN, 2007

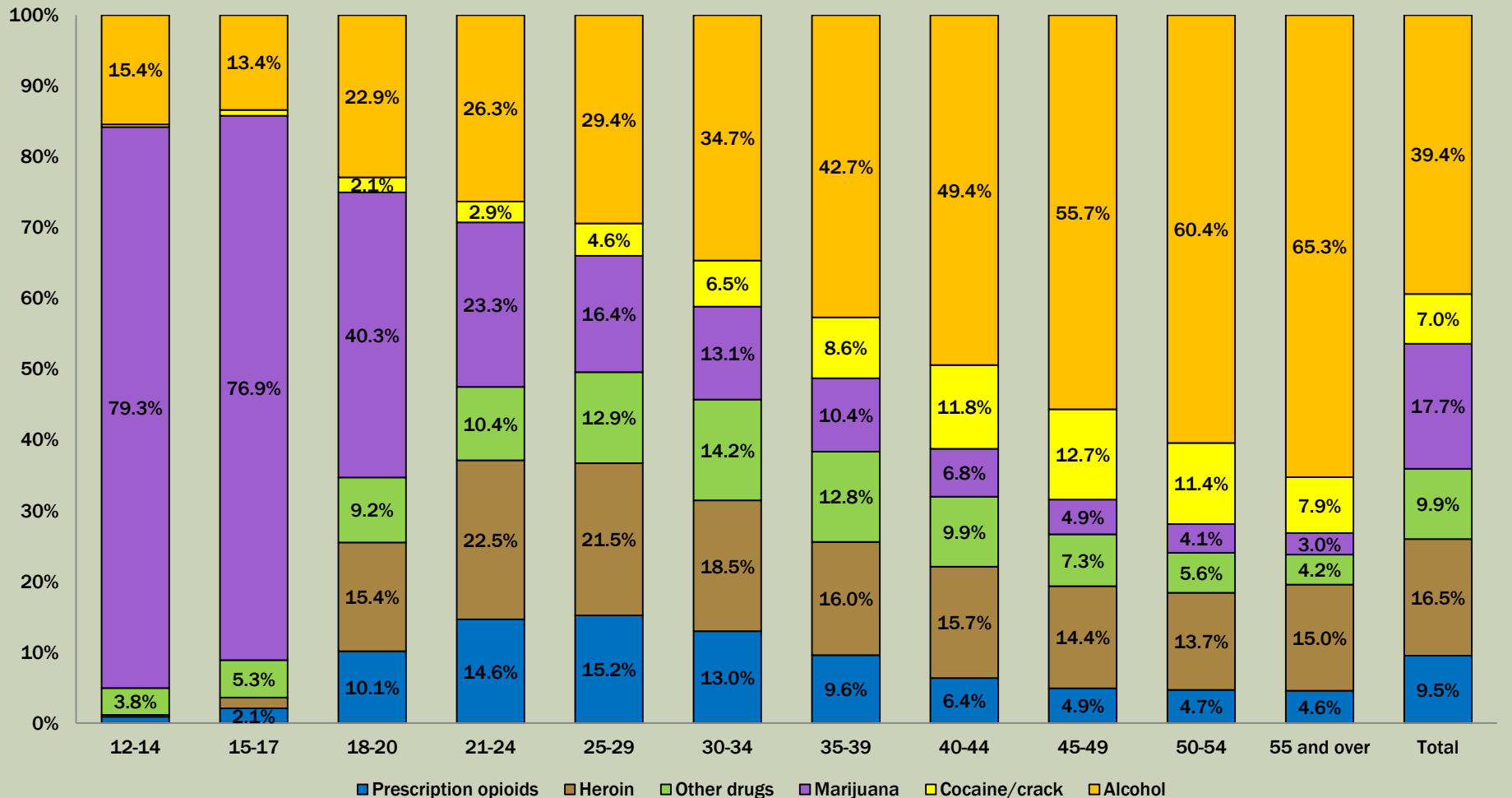


Opioid prescription rates by county TN, 2011

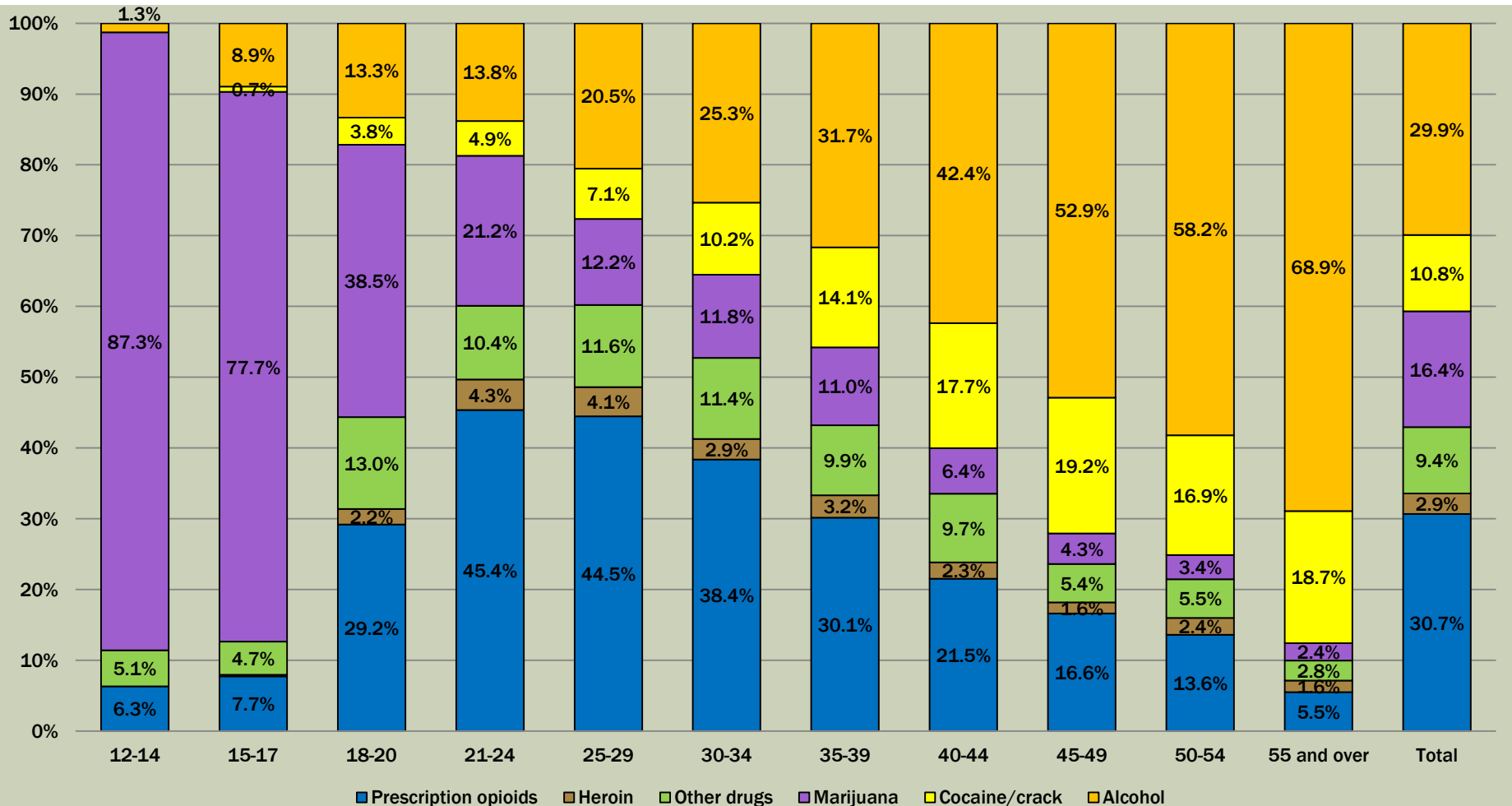


Source: Tennessee Department of Health (2012)

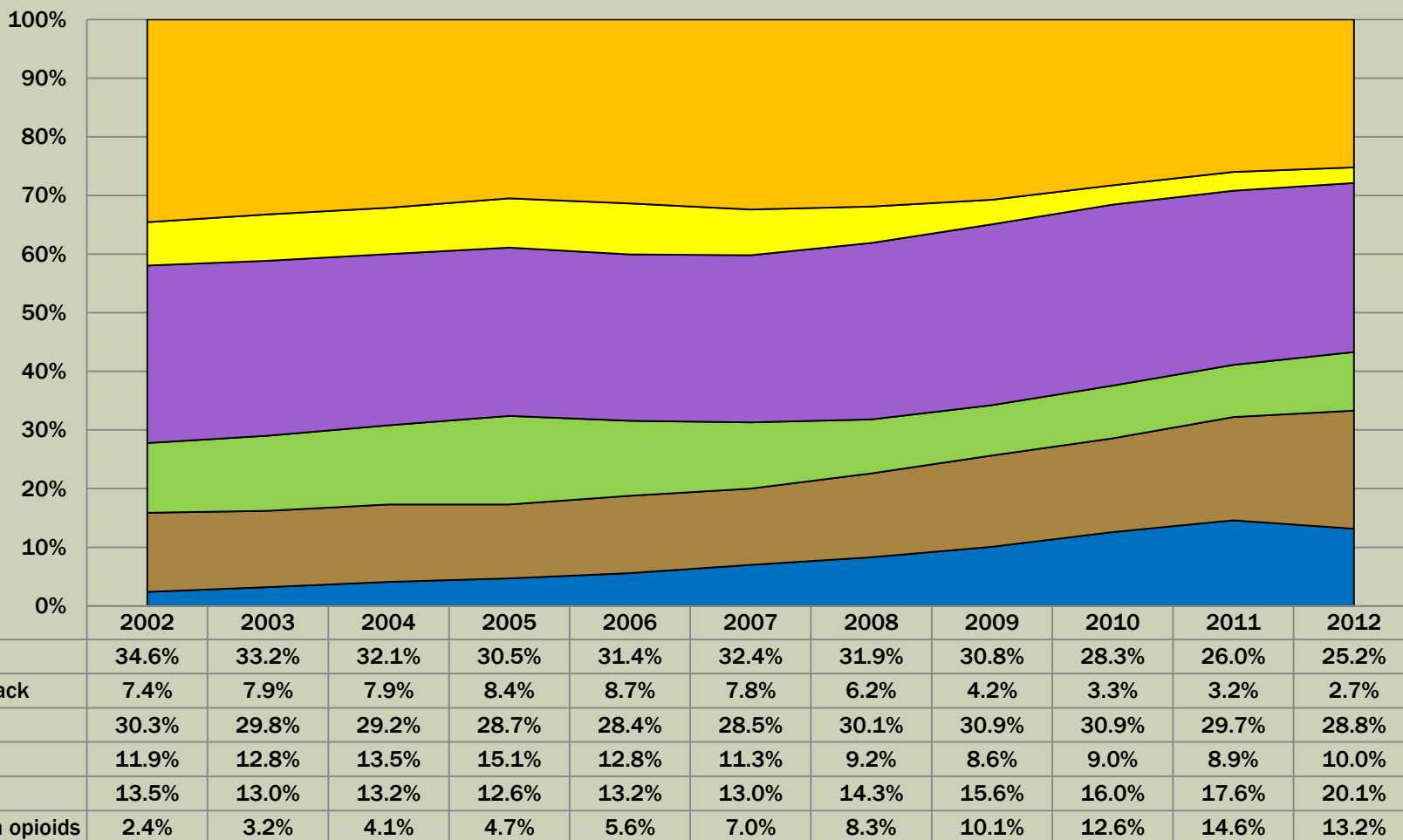
UNITED STATES: PRIMARY SUBSTANCE OF ABUSE BY AGE GROUP, TREATMENT EPISODE DATA SET-ADMISSION 2012



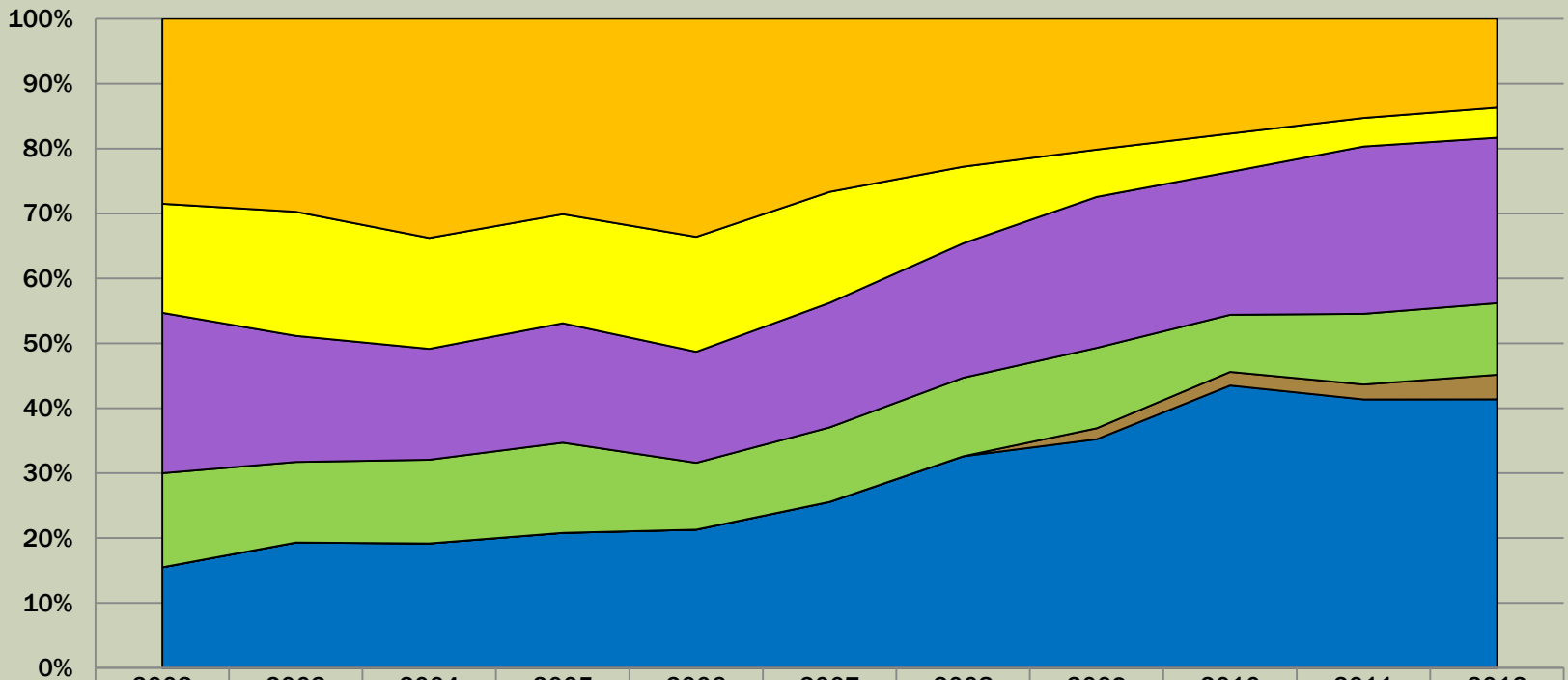
TENNESSEE: PRIMARY SUBSTANCE OF ABUSE BY AGE GROUP; TREATMENT EPISODE DATA SET-ADMISSION 2012



UNITED STATES: PRIMARY SUBSTANCE OF ABUSE FOR YOUNG ADULTS, AGES 18-24; TREATMENT EPISODE DATA SET-ADMISSION 2012



TENNESSEE: PRIMARY SUBSTANCE OF ABUSE FOR YOUNG ADULTS, AGES 18-24; TREATMENT EPISODE DATA SET-ADMISSION 2012



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Alcohol | 28.5% | 29.7% | 33.8% | 30.1% | 33.6% | 26.7% | 22.8% | 20.2% | 17.7% | 15.3% | 13.7% |
| Cocaine/crack | 16.8% | 19.1% | 17.1% | 16.8% | 17.7% | 17.1% | 11.8% | 7.3% | 5.9% | 4.4% | 4.6% |
| Marijuana | 24.7% | 19.4% | 17.1% | 18.4% | 17.1% | 19.2% | 20.7% | 23.3% | 22.0% | 25.8% | 25.5% |
| Other drugs | 14.5% | 12.4% | 12.9% | 13.9% | 10.3% | 11.5% | 12.1% | 12.4% | 8.8% | 10.9% | 11.0% |
| Heroin | | | | | | | | 1.7% | 2.1% | 2.3% | 3.8% |
| Prescription opioids | 15.5% | 19.3% | 19.2% | 20.8% | 21.3% | 25.6% | 32.6% | 35.3% | 43.5% | 41.4% | 41.4% |

NOTE: Tennessee began disaggregating heroin admissions from other opioids and synthetics (represented here as prescription opioids) in July 2009.

THE COSTS OF PRESCRIPTION DRUG ABUSE IN TENNESSEE

TYPES OF COSTS

- Drug-related crimes
- Health care costs
- Hospital costs due to poisoning
- Loss of earnings due to premature death
- Treatment costs

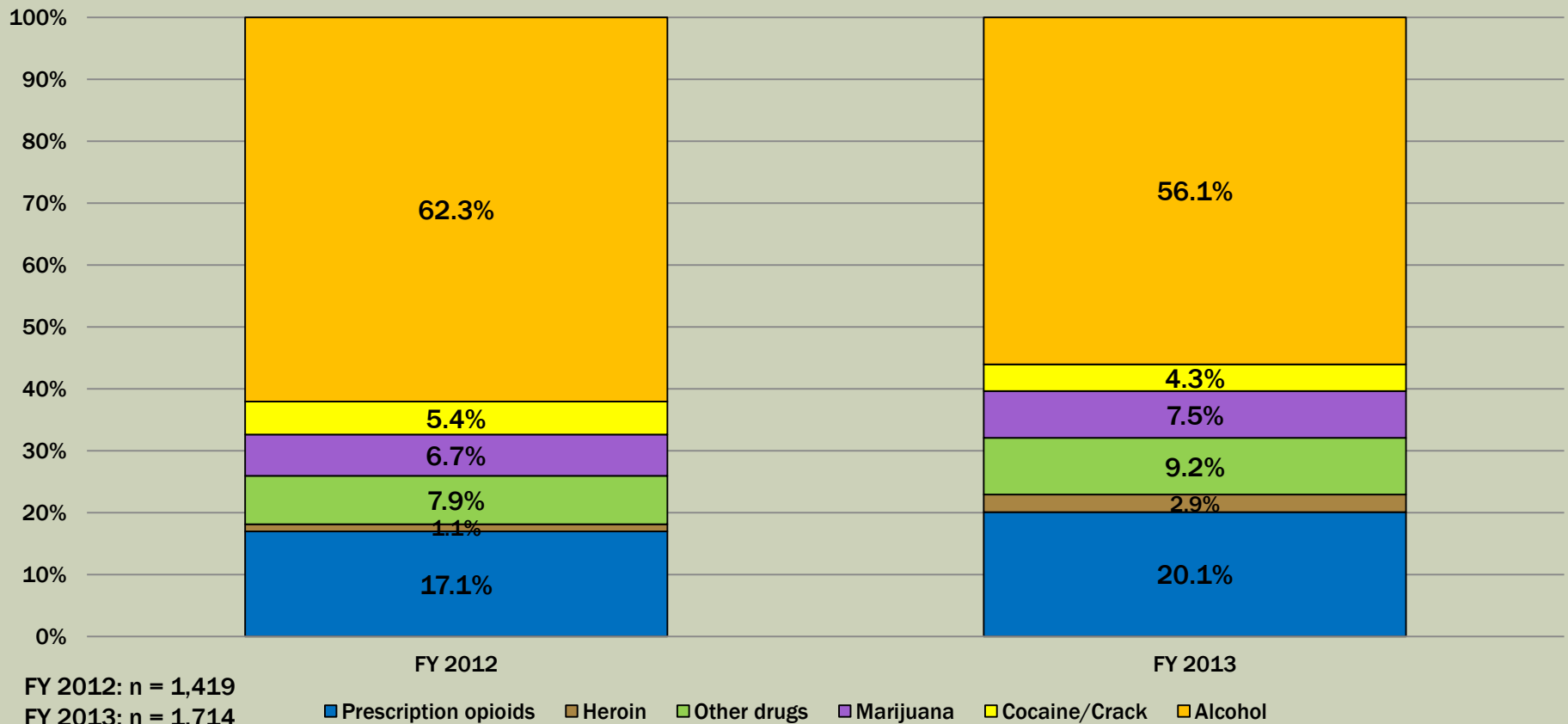
DRUG-RELATED CRIME

Societal
costs

CRIMINAL JUSTICE OFFENDERS ADDICTED TO PRESCRIPTION OPIOIDS

Primary substance of abuse for individuals in TDMHSAS funded criminal justice programs:
FY 2012 and 2013

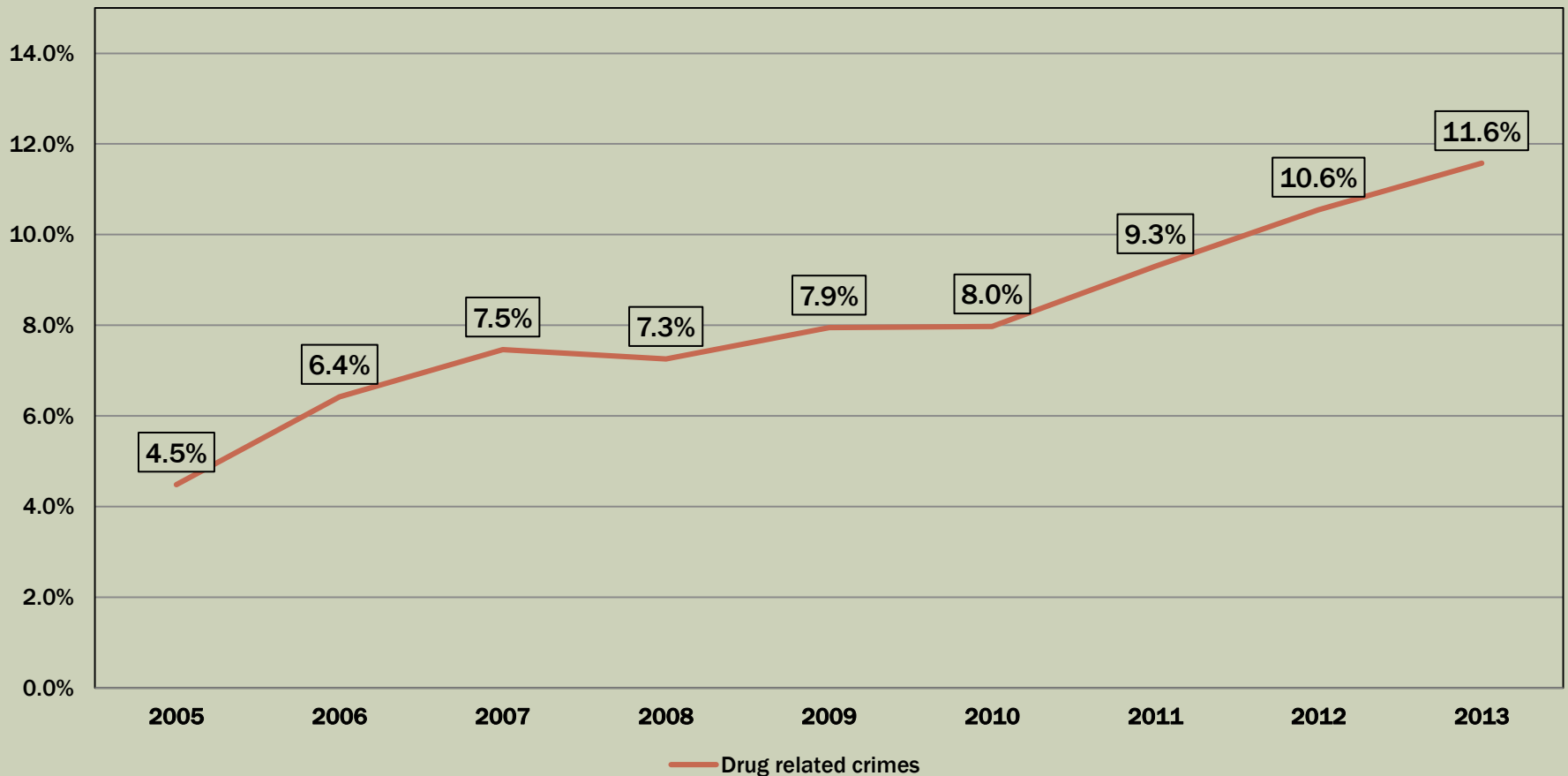
(Source: TDMHSAS Web Infrastructure for Treatment Services (WITS) System)



THE PERCENT OF DRUG-RELATED CRIMES IS INCREASING

Percent of Tennessee crimes that are drug-related

(Source: Tennessee Incident Based Reporting System)



COSTS OF DRUG-RELATED CRIMES

- The cost of arrests for drug law violations was \$130.5 million in 2008 for 47,600 arrests.
- The cost of legal and adjudication expenses was \$37.0 million in 2008.
- The state correction cost was \$70.4 million for 3,079 inmates with drug-related offenses in 2008.

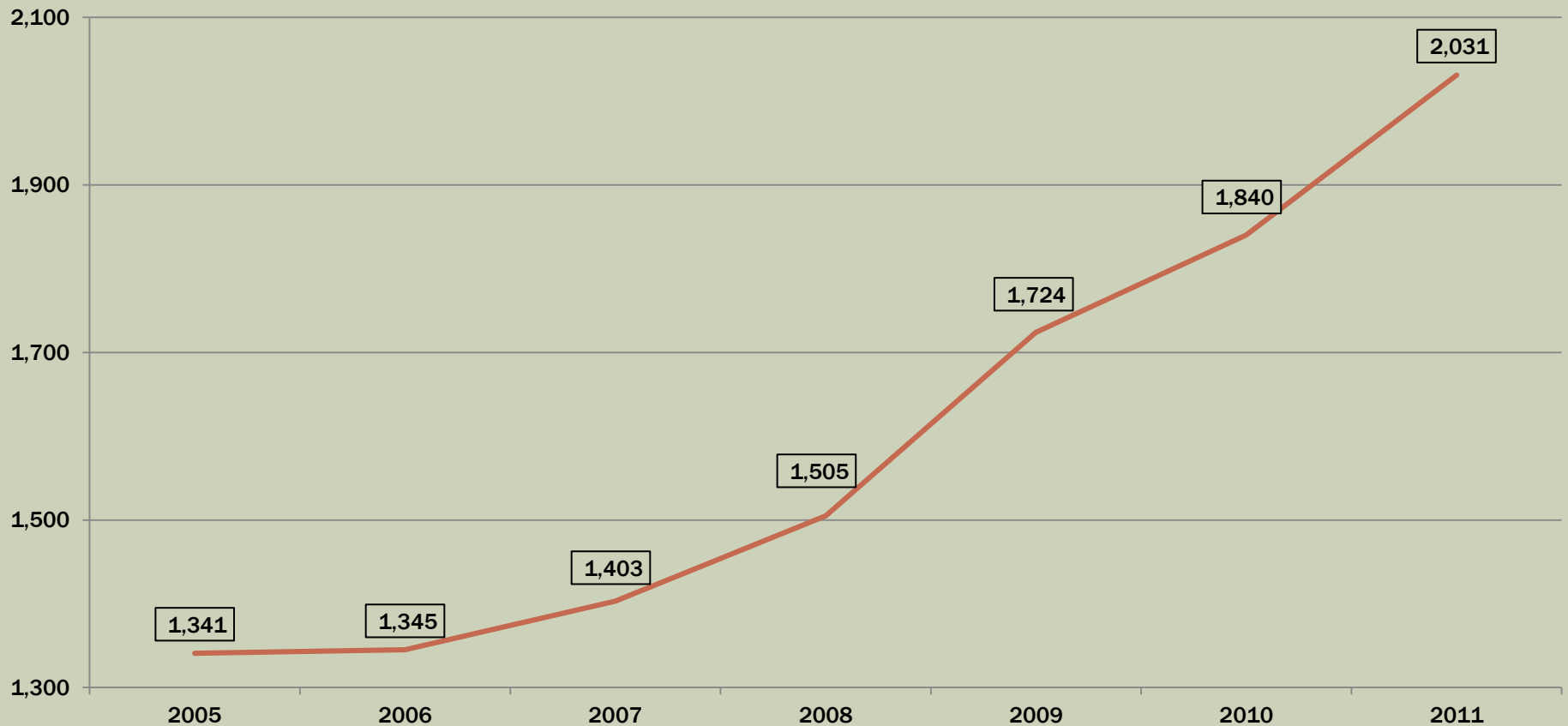
Source: EMT Associates, Inc. (2010) The economic costs of alcohol and other drug abuse in Tennessee, 2008. Prepared for Tennessee Department of Mental Health and Developmental Disabilities, December 2010.

HEALTH CARE COSTS

Societal
costs

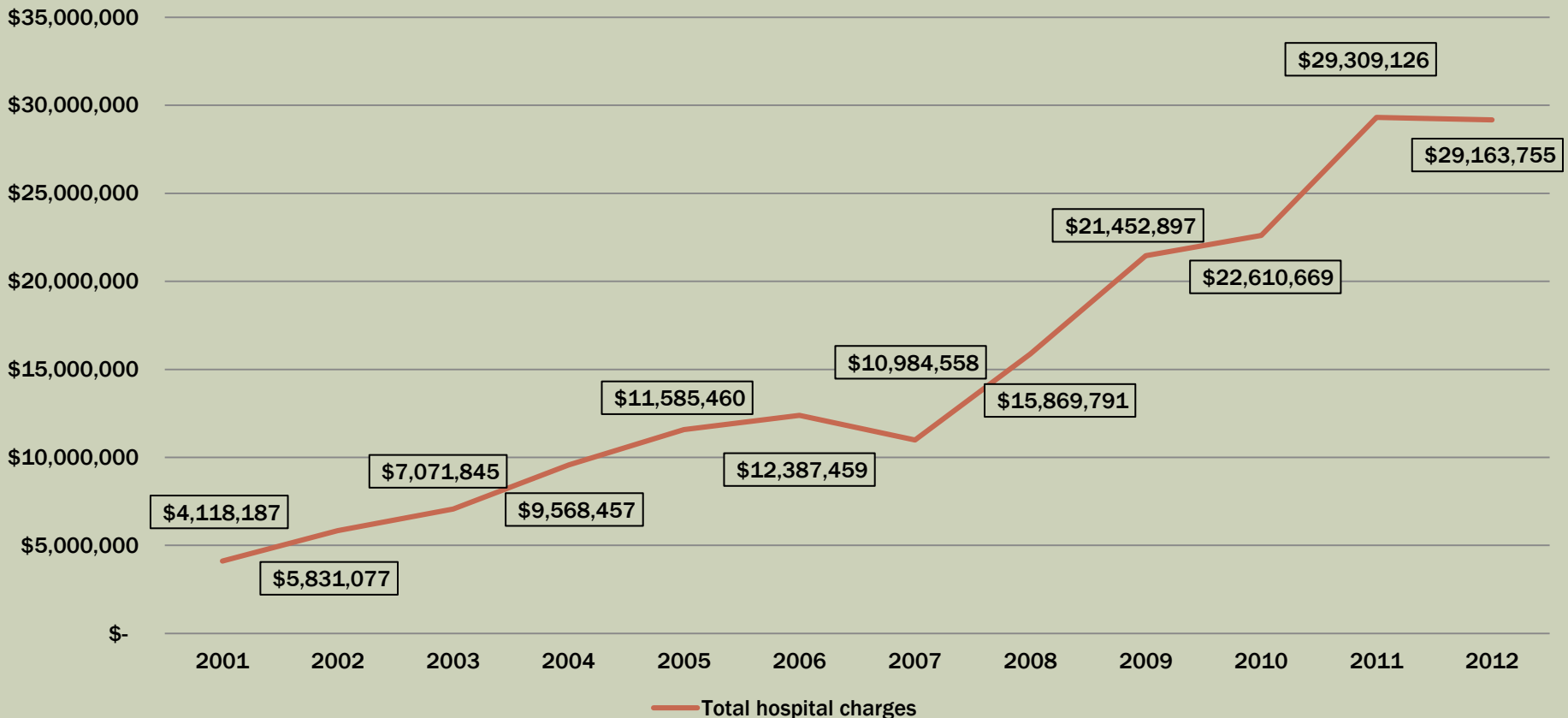
EMERGENCY DEPARTMENT VISITS FOR OPIOID POISONING INCREASED 51% FROM 2005 TO 2011

ED visits for poisoning by prescription opioids and related narcotics*: 2005-2010, Tennessee
(Source: Healthcare Cost and Utilization Project (HCUP)
Agency for Healthcare Research and Quality, Rockville, MD)



HOSPITAL CHARGES FOR OPIOID POISONING EXCEEDED \$29 MILLION IN 2011

Total Tennessee hospital charges for poisoning by prescription opioids and related narcotics: 2001-2012
(Source: Healthcare Cost and Utilization Project (HCUP). Agency for Healthcare Research and Quality, Rockville, MD)

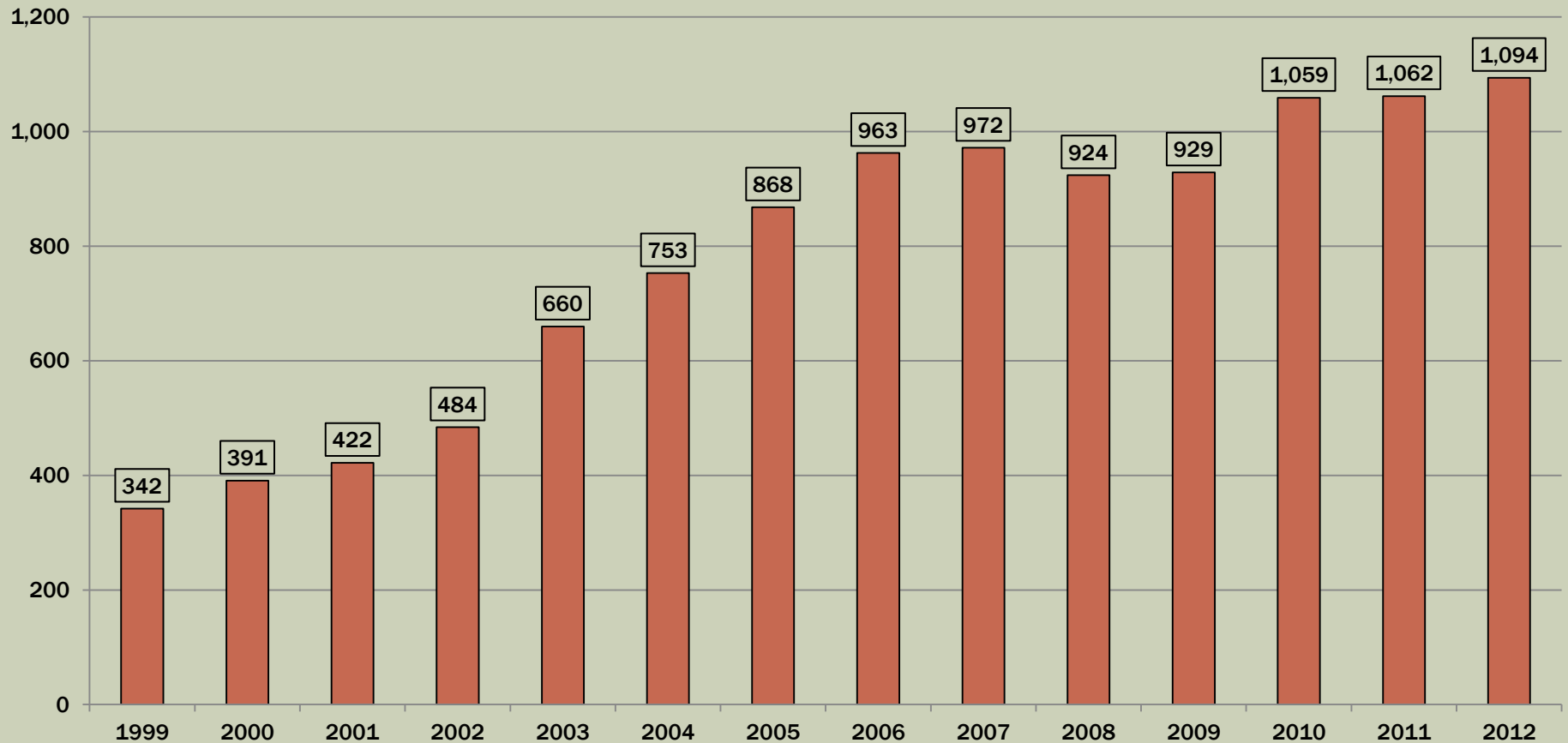


LOSS OF EARNINGS DUE TO PREMATURE DEATH

Societal
costs

1,094 PEOPLE DIED FROM DRUG OVERDOSES IN 2011

Drug overdose deaths in Tennessee: 1999-2012
(Source: Office of Policy, Planning and Assessment, Tennessee Department of Health - Death Certificates)



THE COST OF PREMATURE DEATH

- Tennessee drug overdose deaths in 2012 resulted in losses of:
 - An estimated 7,300 years of life,
 - \$246 million in potential earnings due to premature death.

Source: EMT Associates, Inc. (2010) The economic costs of alcohol and other drug abuse in Tennessee, 2008.

SUBSTANCE ABUSE TREATMENT COSTS

Treatment
costs

TDMHSAS TREATMENT EXPENDITURES FOR OPIOID ABUSE WERE \$13.7 MILLION IN FY 2013

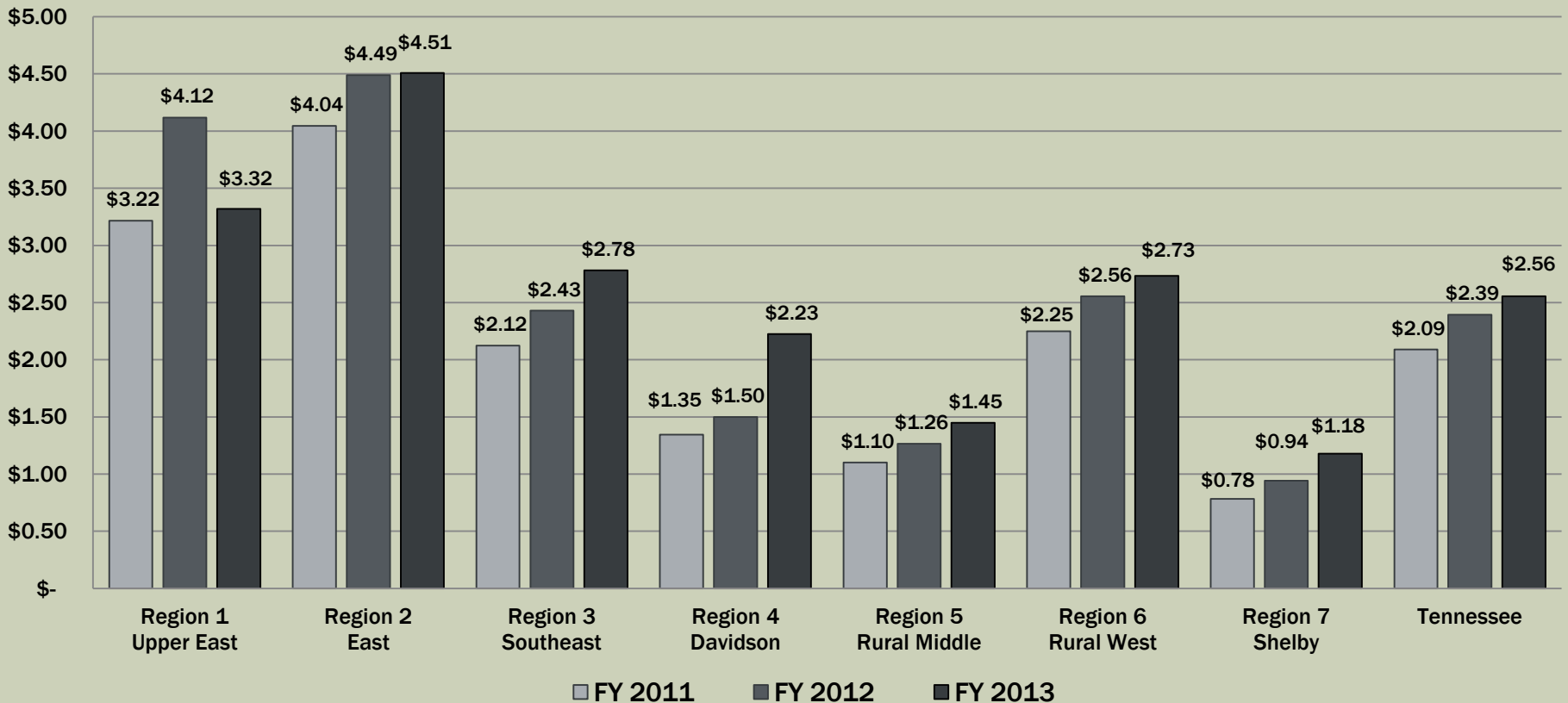
| TDMHSAS- funded treatment | FY 2011 | FY 2012 | FY 2013 | Percent increase (FY 11 to FY 13) |
|--|----------------|----------------|----------------|--|
| Number of people | 4,251 | 4,654 | 4,915 | 15.6% |
| Total dollars (in millions) | \$ 11.0 | \$ 12.6 | \$13.7 | 24.2% |

Source: Tennessee Department of Mental Health and Substance abuse Services (2012)

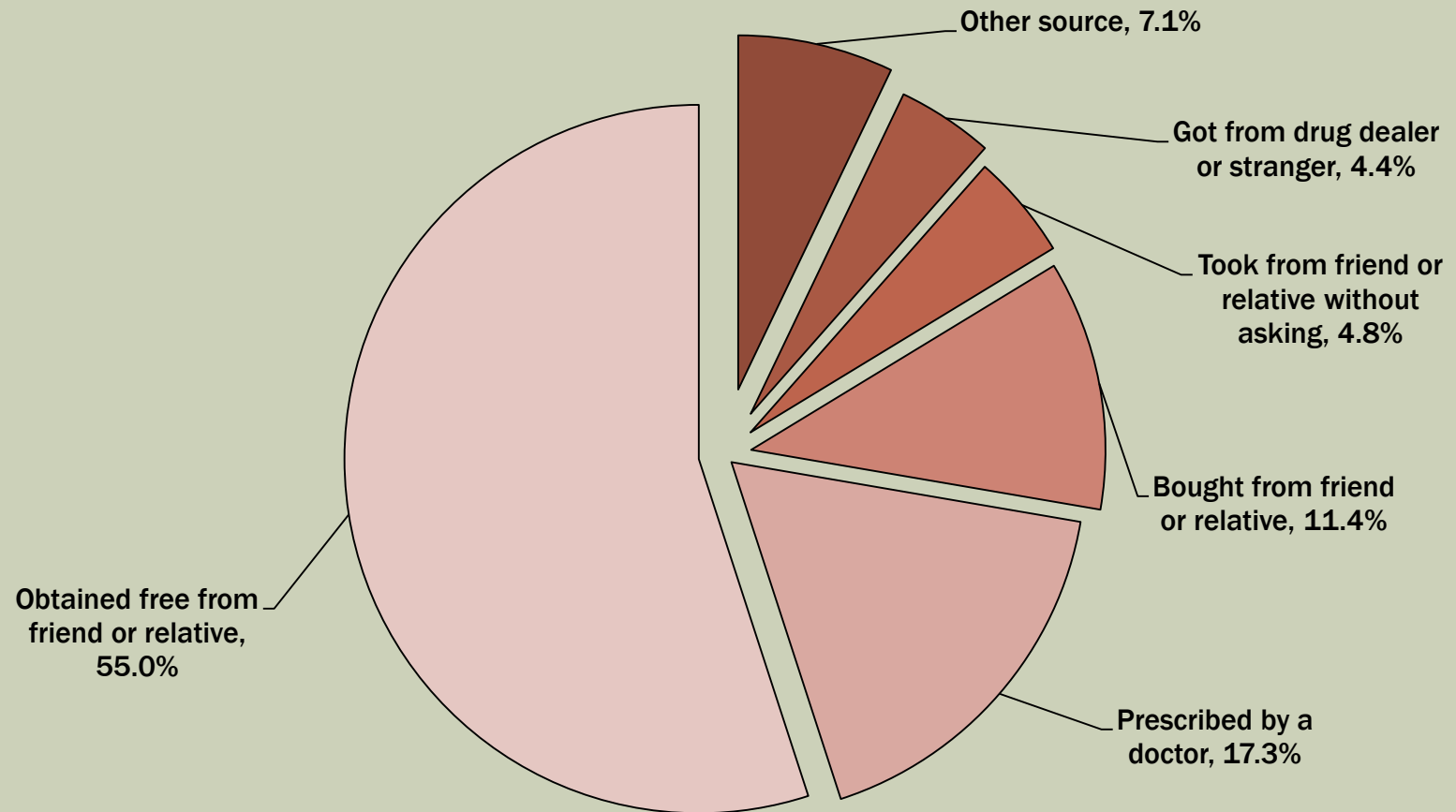
PER CAPITA TREATMENT COSTS IN EAST TN ARE ALMOST DOUBLE THE COSTS IN OTHER TN REGIONS

Per capita cost of TDMHSAS-funded treatment for opioid abuse: FY 2011 - FY 2013

(Source: TDMHSAS Web Infrastructure for Treatment Services (WITS) System)



SOURCES OF PAIN RELIEVERS FOR NONMEDICAL USE AMONG PAST YEAR USERS

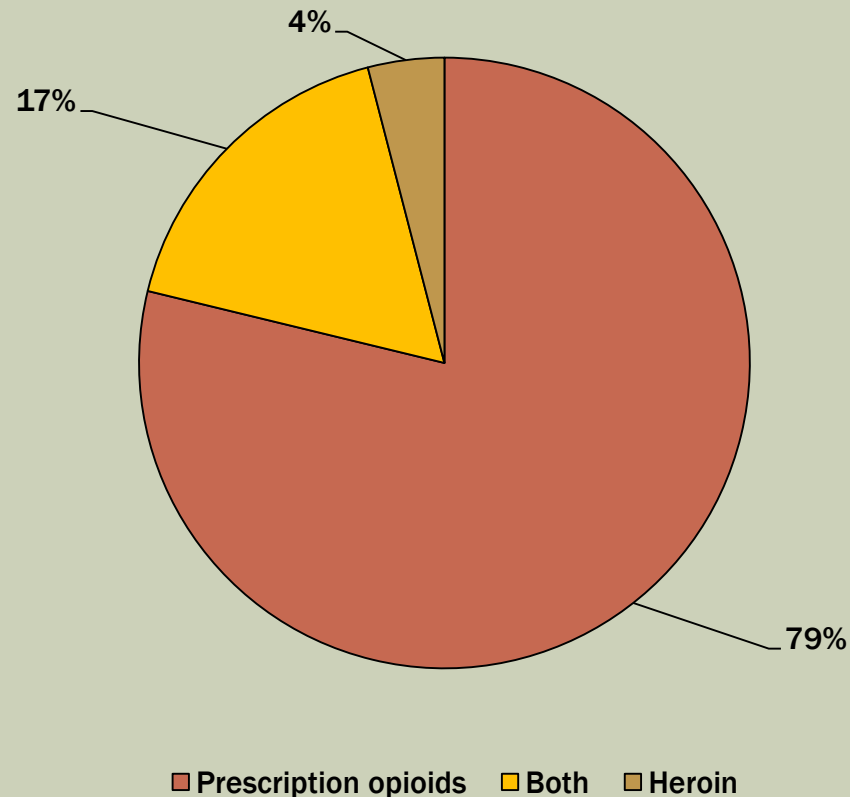


Source: Substance Abuse and Mental Health Services Administration. Results from the 2010 National Survey on Drug Use and Health: volume 1: summary of national findings.

79% OF THE 2,000 PEOPLE ENROLLING ANNUALLY IN TN OPIOID TREATMENT CENTERS ARE ABUSING PRESCRIPTION OPIOIDS

Substance of abuse for people enrolled in private-for-profit opioid treatment programs, 5/2011

Source: TDMHSAS Opioid Clinic Questionnaire Results



THE COSTS OF MEDICATION MAINTENANCE TREATMENT (E.G., METHADONE) AT TN OTPs ARE ESTIMATED TO BE \$47.3 MILLION ANNUALLY

| Private-for-profit treatment at OTPs | Annual estimate |
|--------------------------------------|-----------------|
| Number of people (3-year-average) | 8,660 |
| Total dollars | \$47,283,600 |

- \$105 = average weekly per person cost*
- \$7,140 = cost of average time in treatment: 68 weeks
- \$909,300 = total weekly cost paid by Tennesseans for treatment at OTPs
- \$47.3 million/year = estimated annual cost paid by Tennesseans for treatment at OTPs

*Does not include all ancillary costs associated with methadone maintenance treatment.

Source: Tennessee Department of Mental Health and Substance Abuse Services (2013)

MEDICAID CLAIMS FOR SUBOXONE TREATMENT FOR OPIOID ADDICTION TRIPLED FROM FY 2010 TO FY 2012

TennCare claims paid for suboxone treatment for opioid addiction
(Source: Actuarial Reviews of the TennCare Program: FY 2010 - FY 2014)

