



# Marijuana-related Outcomes in the Context of Legalization in Michigan

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Conference

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## 3 Objectives:

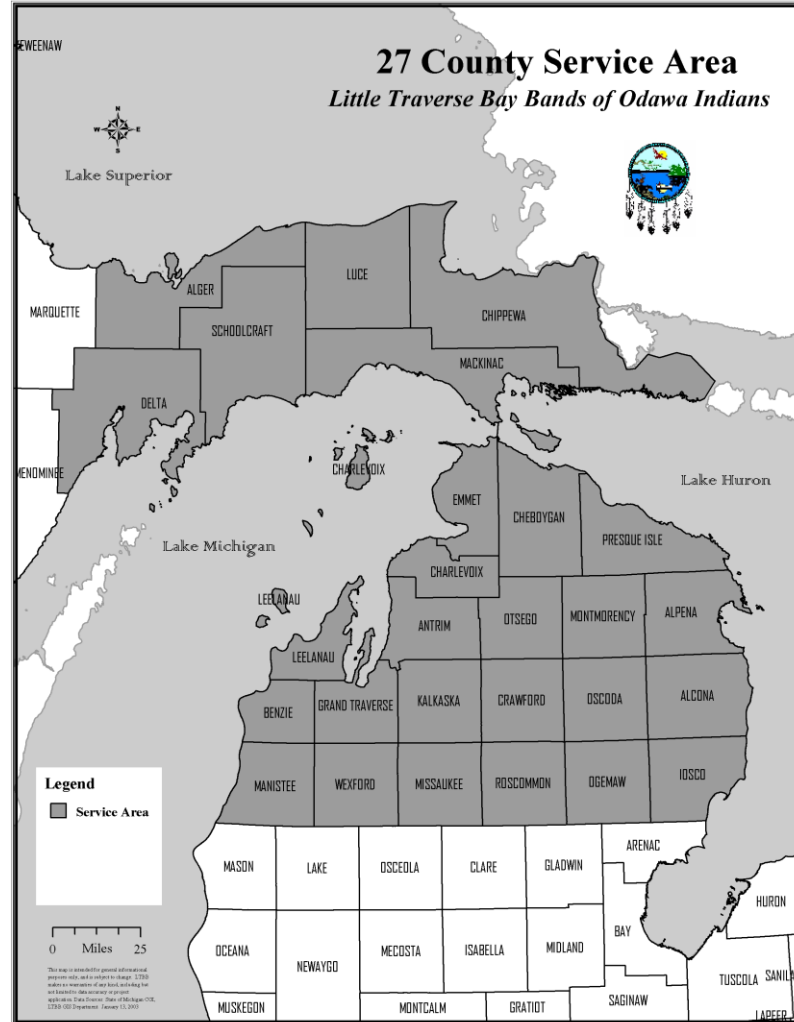
1. LTBB at a glance
2. A brief history of marijuana legalization in Michigan
3. Trends in marijuana use and related risk factors among LTBB youth and adults

# LTBB at a Glance

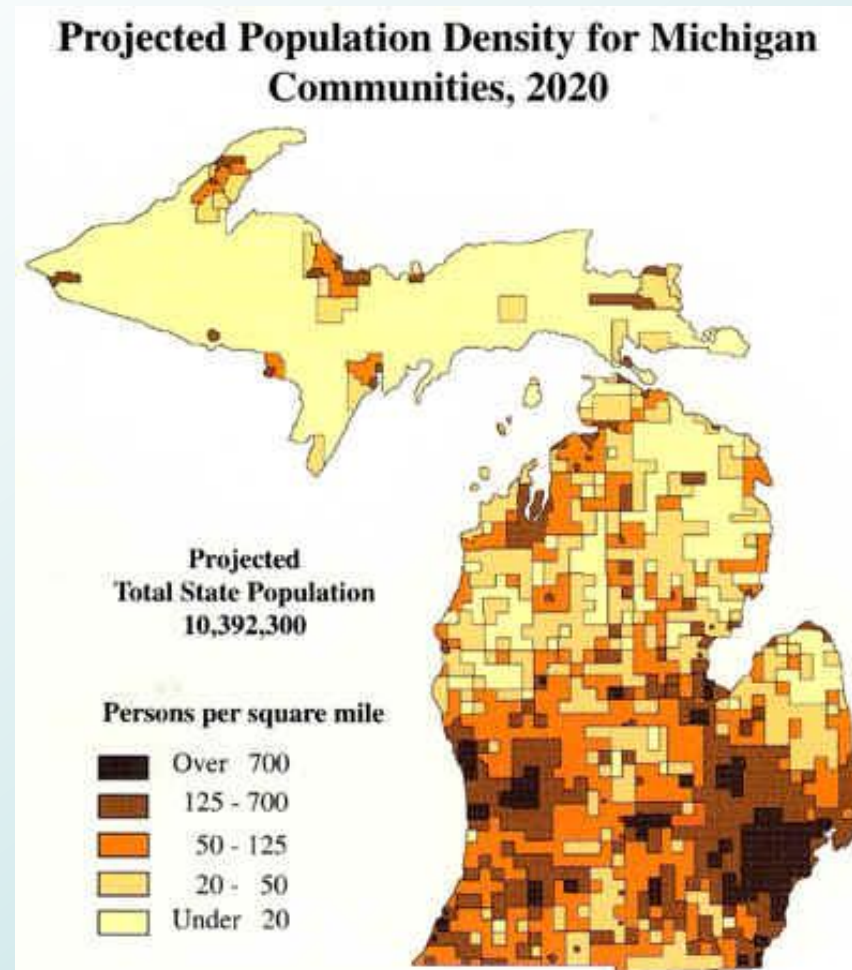
- LTBB is a federally-recognized tribe reaffirmed Sept. 1994.
- Most of 4000+ tribal members live in the NW corner of the lower peninsula of MI.
- Although the tribe has a designated reservation encompassing portions of Charlevoix and Emmet Counties, most tribal members live on non-tribal lands.
- Tribal health department serves a 27-county area in northern LP and eastern UP.



# 27-County Service Area



# Population Density

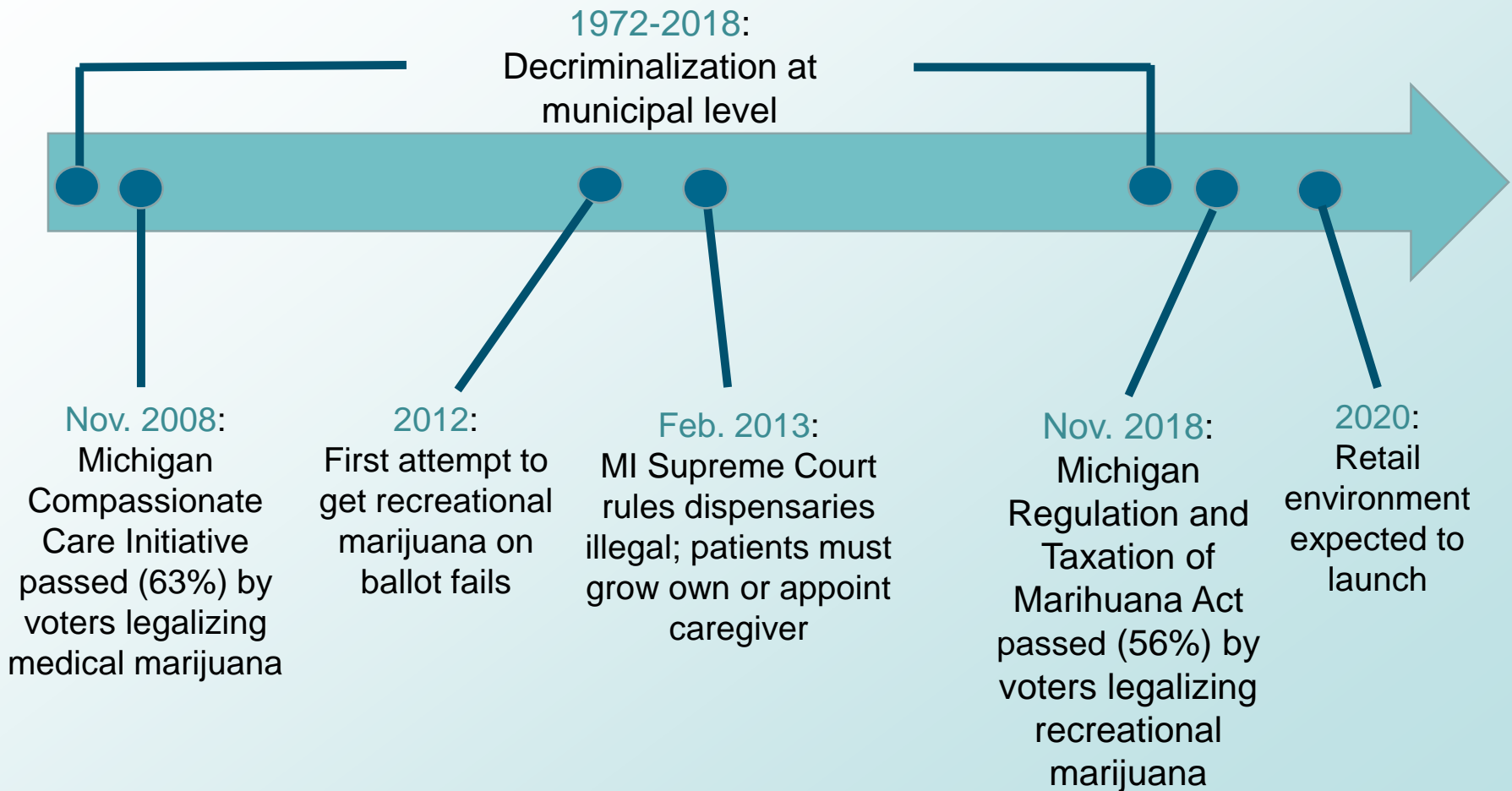


Source: [geo.msu.edu/extra/geogmich/populationchanges.html](http://geo.msu.edu/extra/geogmich/populationchanges.html)

# Petoskey (L) and Harbor Springs (R)



## 2. A *Brief* History of Legalization in MI



# Tribal Sovereignty in the Context of Legalization in Michigan

- As a federally-recognized tribe, LTBB is not subject to state government control (i.e., state marijuana laws do not apply on tribal lands).
- Relationship between tribes and government is at the federal, not state, level.
- Therefore, *federal* laws regarding marijuana apply.
- Cole II memo in 2014 extended provisions of Cole I memo to tribal nations.





### **3. Trends in marijuana use and related risk factors among LTBB youth and adults**

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First, let's look at youth...

# Youth Survey

- Annual survey since 2012
- Most recently conducted Aug 2018-Jan 2019

## Eligibility criteria:

- LTBB citizen or descendant, ages 12-20
- Resident of 27-county LTBB service area

## 77-item questionnaire

- Demographic characteristics (age, gender, etc.)
- Substance use behaviors (e.g., alcohol, mj, Rx)
- Risk factors (e.g., risk, disapproval, etc.)

- Administration:

- Paper-and-pencil or online
- In person at tribal events, schools; mailed home

- 2018 response rate: 88.4% (130/147)

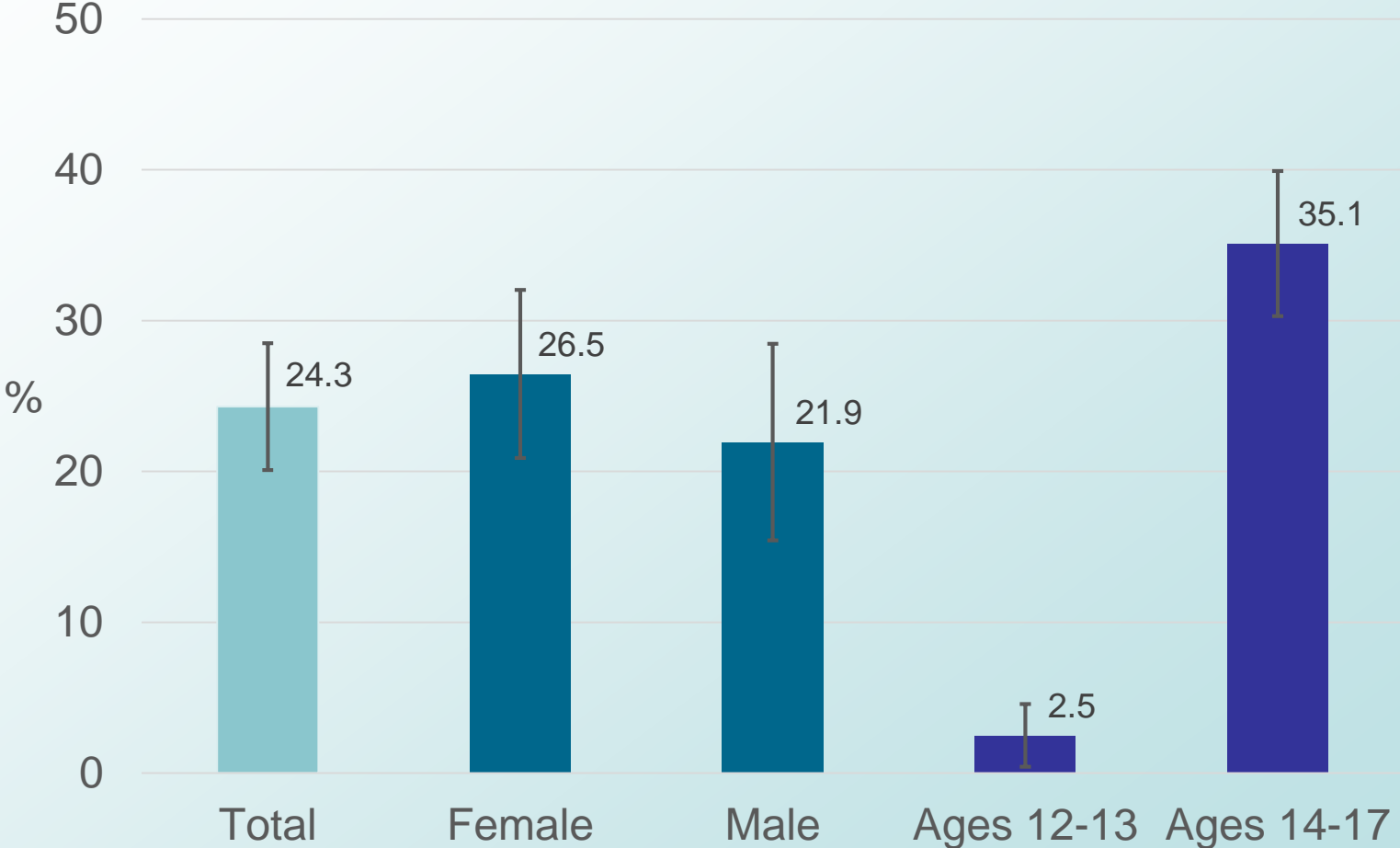


# Youth Survey Demographics

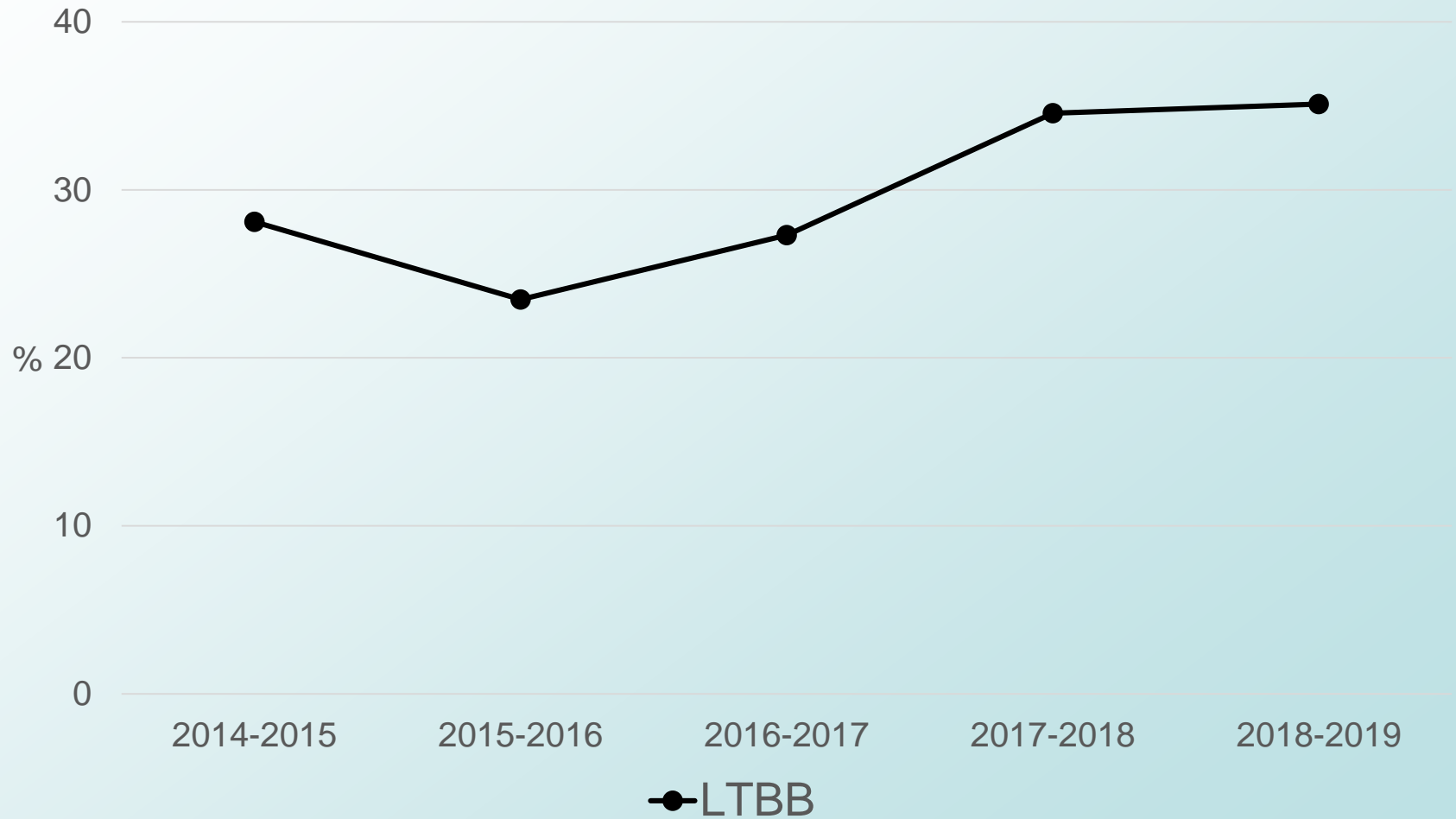
	n	%
<b>Gender (n=129)</b>		
Males	53	41.1
Females	76	58.9
<b>Mean age = 14.5 years</b>		
<b>LGBTBQ or two spirit (n=120)</b>	14	11.7
<b>County (n=130)</b>		
Antrim	3	2.3
Charlevoix	4	3.1
Cheboygan	32	24.6
Chippewa	1	0.8
Delta	2	1.5
Emmet	85	65.4
Grand Traverse	2	1.5
Otsego	1	0.8



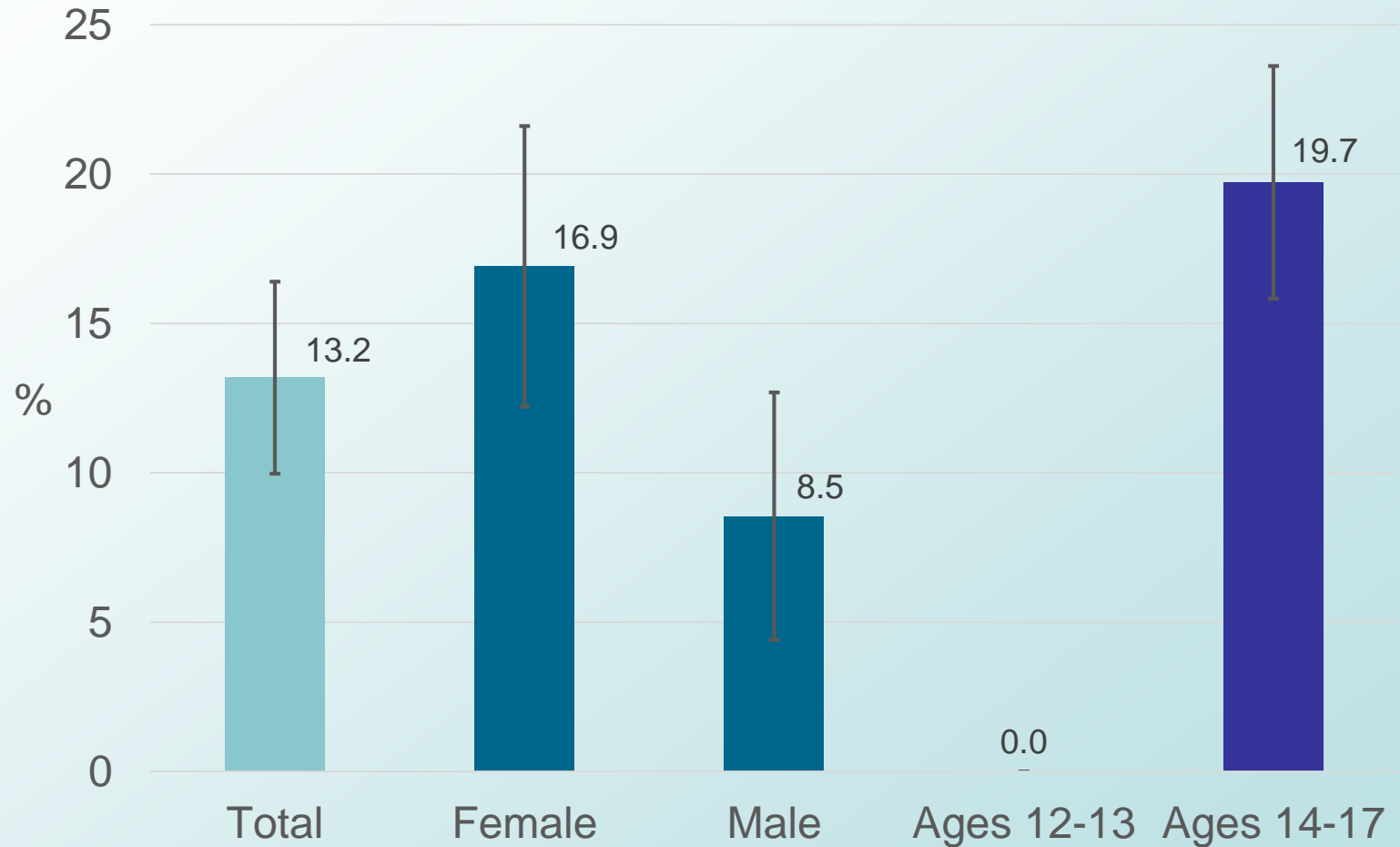
# Past year marijuana use in 2018



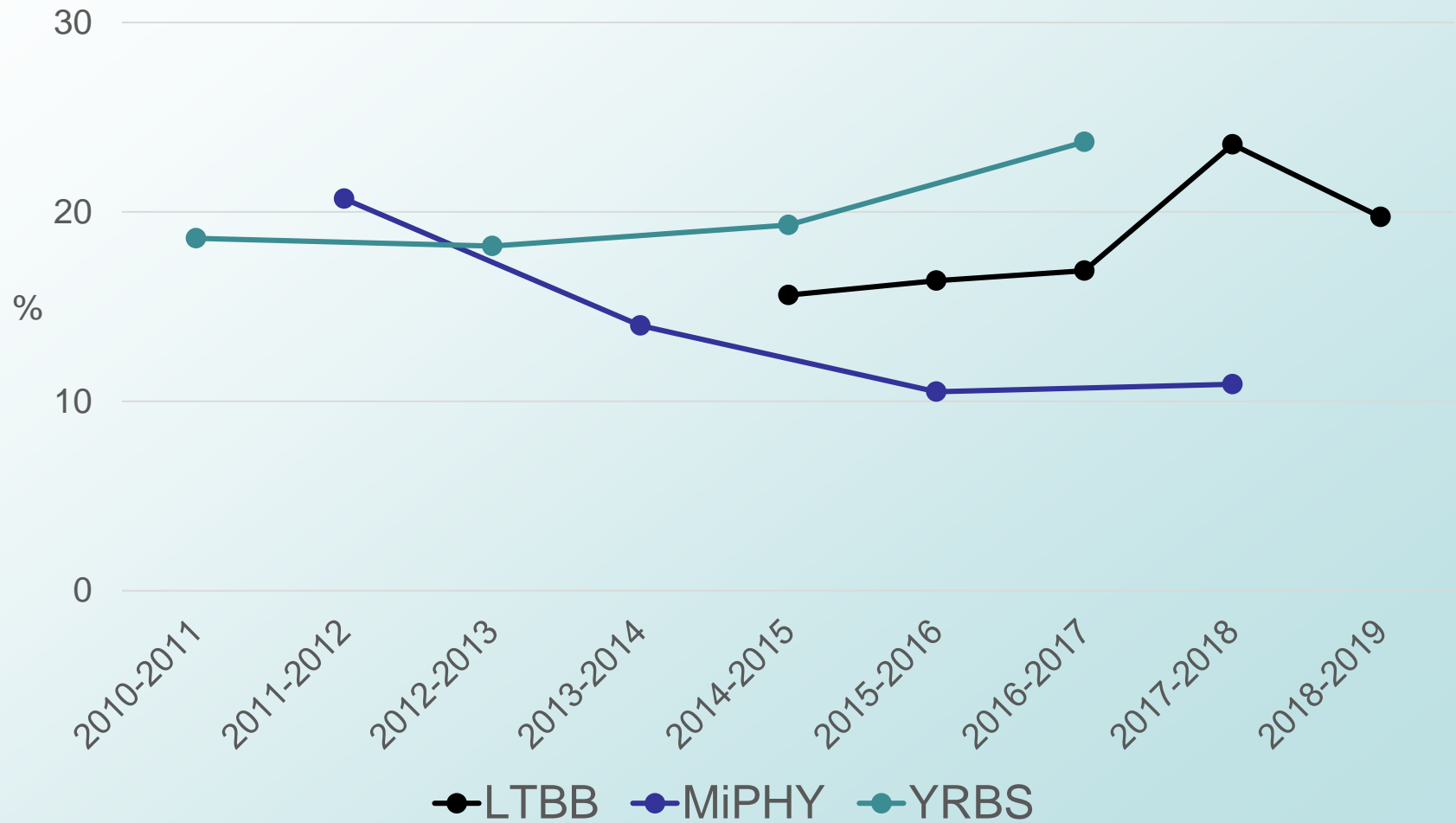
# Trends in past year marijuana use – Ages 14-17



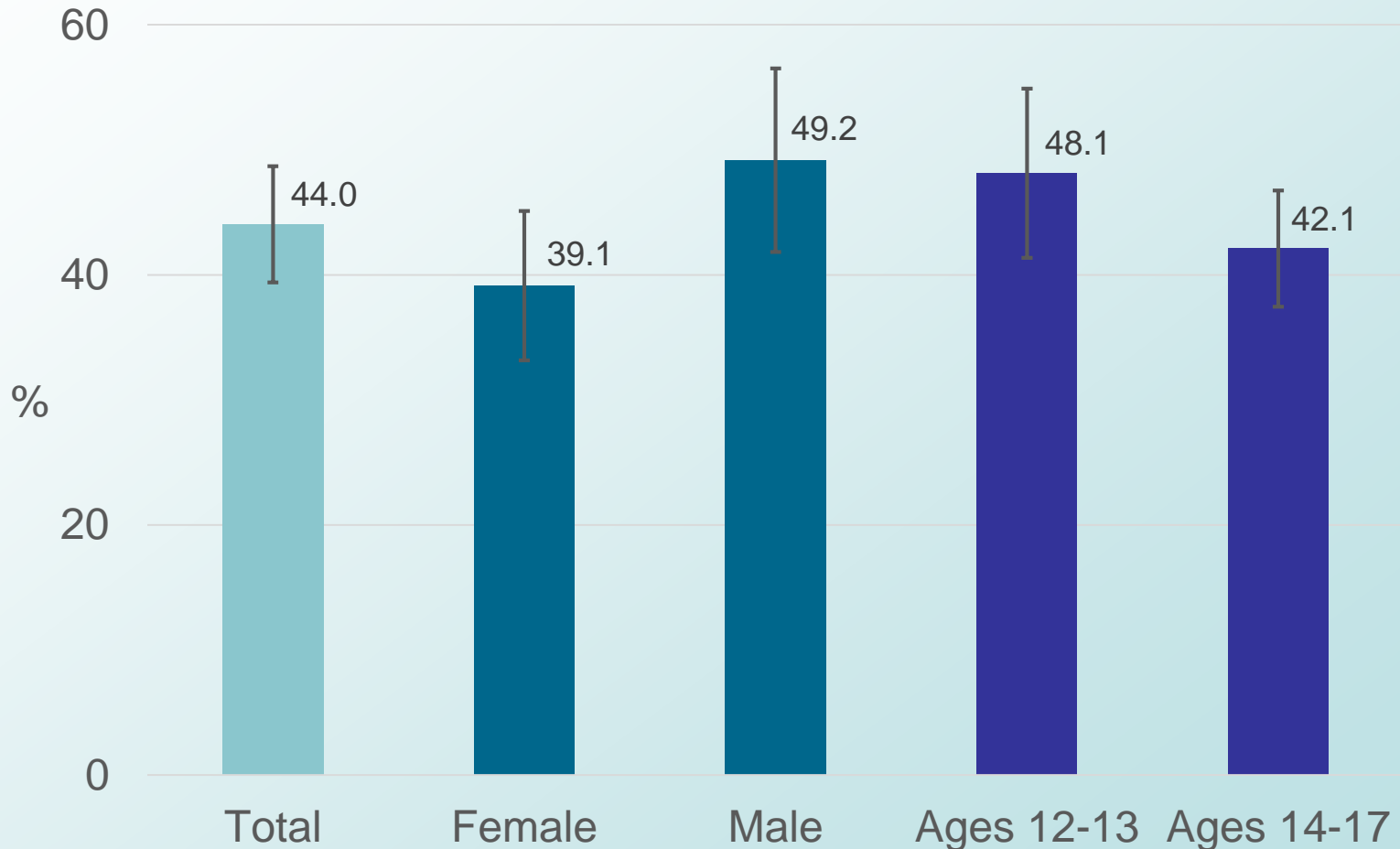
# Past month marijuana use in 2018



# Trends in past month marijuana use – Ages 14-17



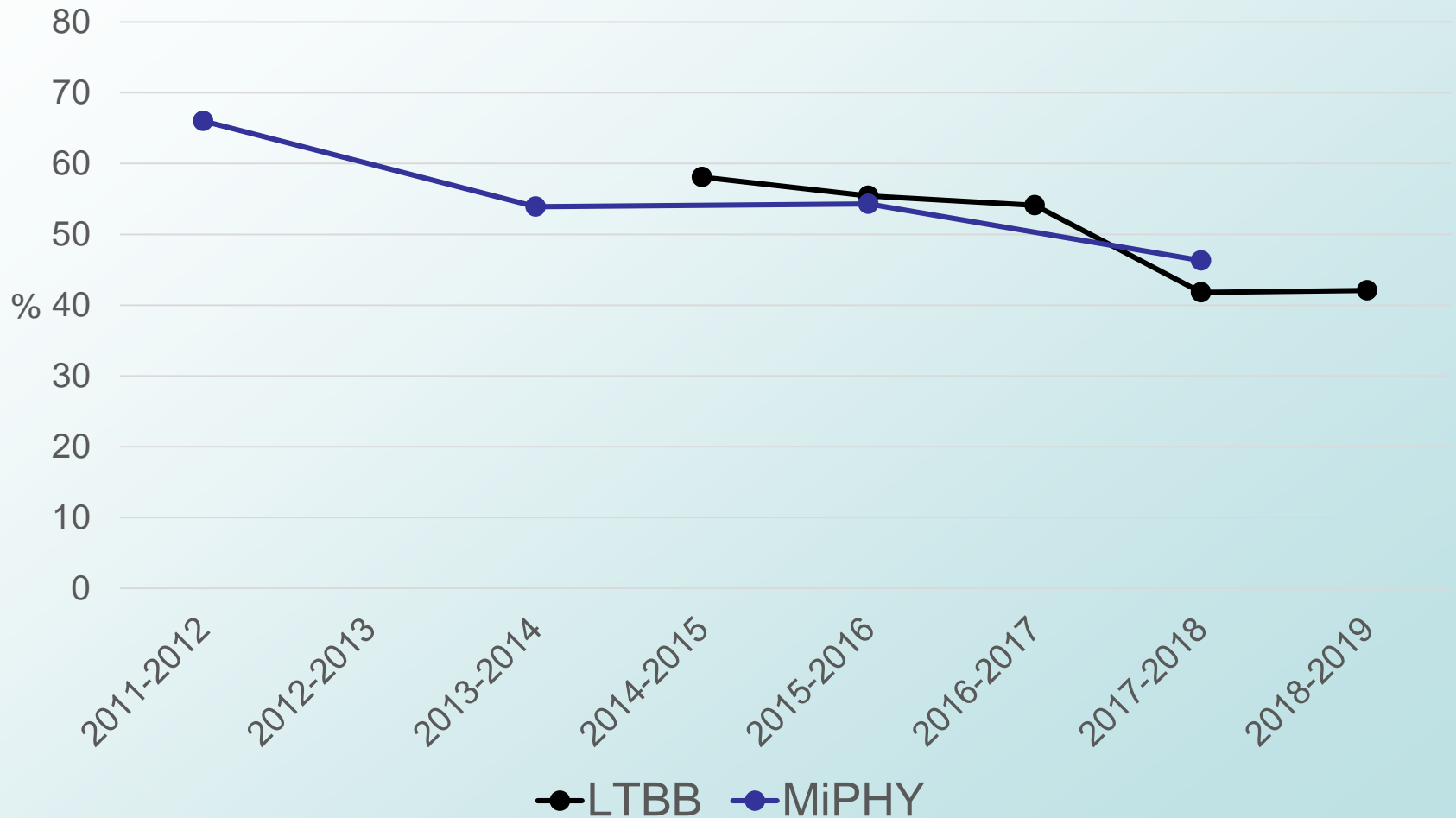
# Perceived risk of harm from using marijuana 1-2 times per week in 2018



\*Figures represent percentage of respondents who indicated “moderate” or “great” risk.



# Trends in perceived risk of harm from using marijuana 1-2 times per week – Ages 14-17



\*Figures represent percentage of respondents who indicated “moderate” or “great” risk.

### **3. Trends in marijuana use and related risk factors among LTBB youth and adults**

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Now let's look at adults...

# Adult Survey



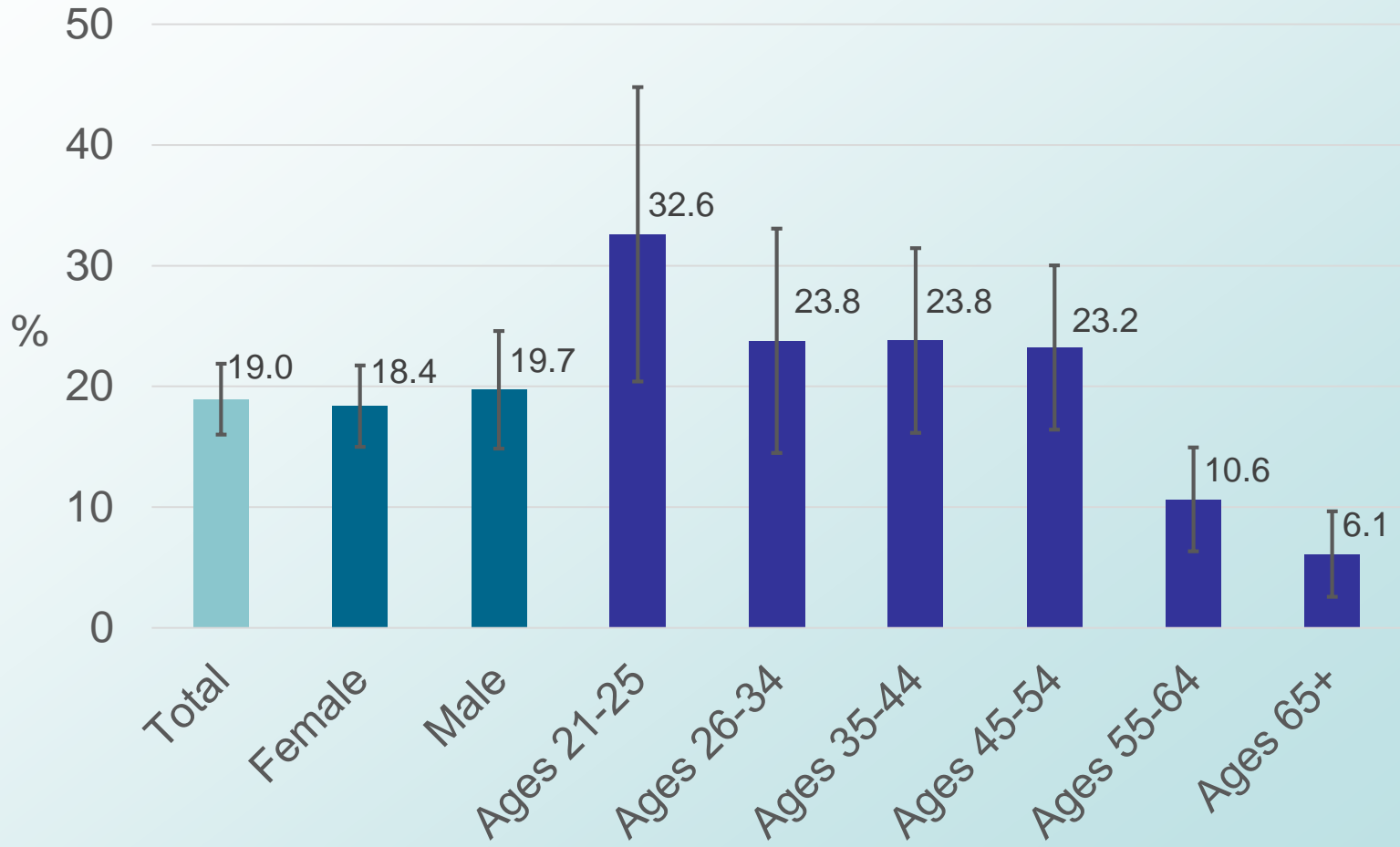
- Annual survey administered starting in 2017
- Eligibility criteria:
  - LTBB citizen or descendant, ages 21+
  - Resident of immediate 3-county service area
- 52-item questionnaire
  - Demographic characteristics (age, gender, etc.)
  - Substance use behaviors (e.g., alcohol, mj, Rx)
  - Risk factors (e.g., risk, disapproval, etc.)
- Administration:
  - Paper-and-pencil or online
  - In person at tribal events, health clinic, community
- 2018 response rate: 44.3% (434/980)

# Adult Survey Demographics

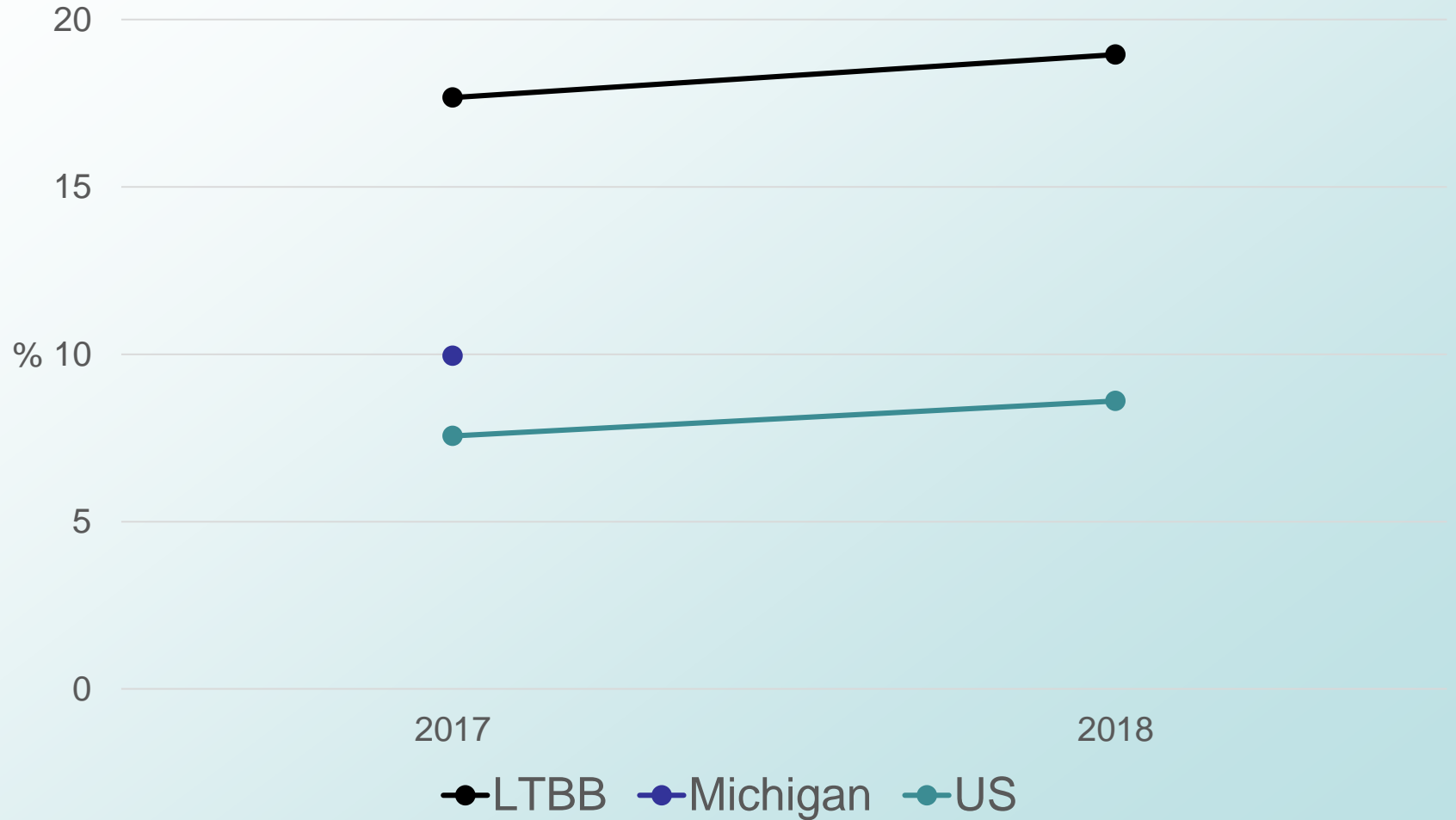
	n	%
<b>Gender (n=423)</b>		
<b>Males</b>	150	35.5
<b>Females</b>	273	64.5
<b>Mean age = 50.8 years</b>		
<b>LGTBQ or two spirit (n=377)</b>	16	4.3
<b>County (n=436)</b>		
<b>Charlevoix</b>	45	10.4
<b>Cheboygan</b>	40	9.2
<b>Emmet</b>	349	80.4



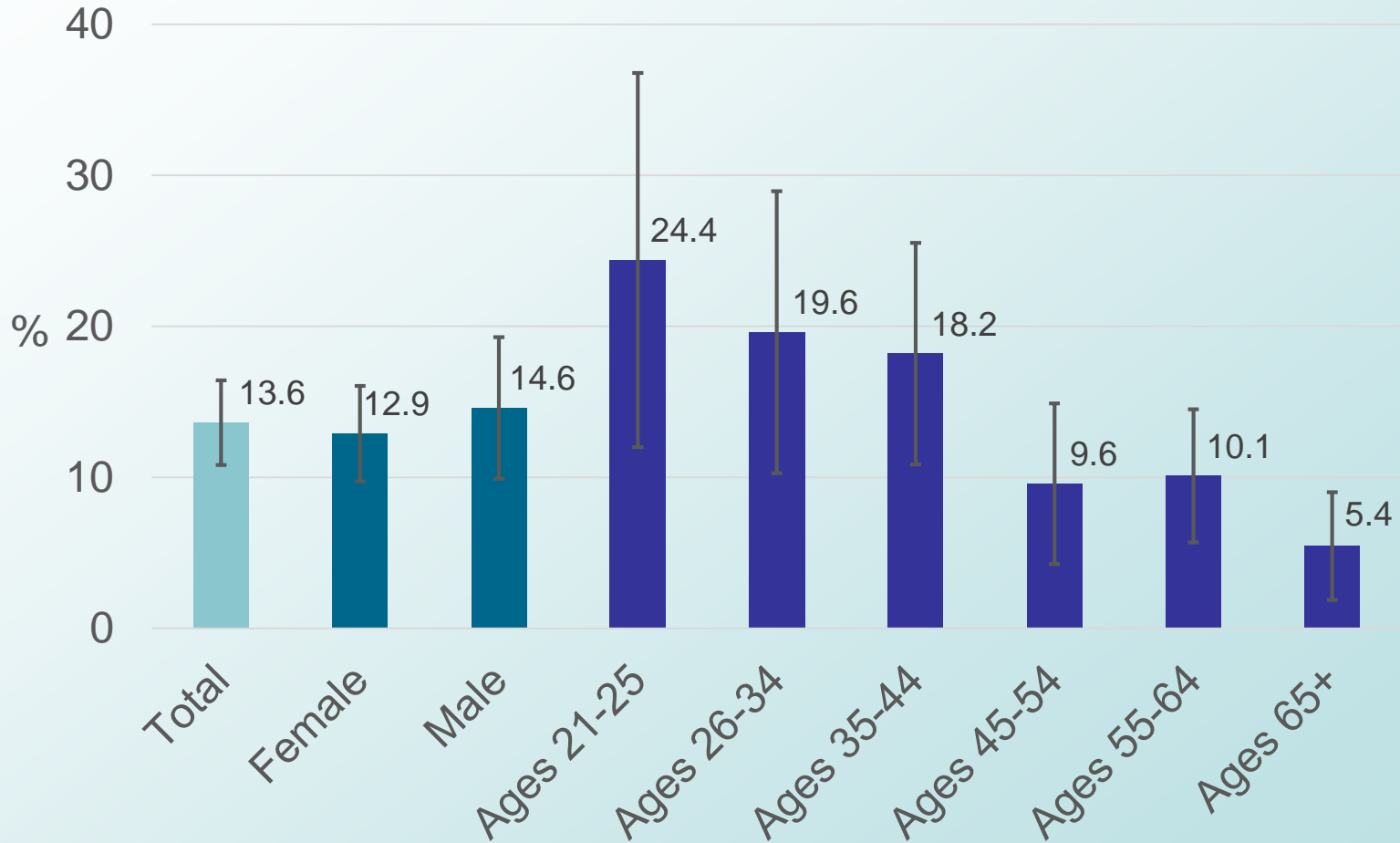
# Past month marijuana use in 2018



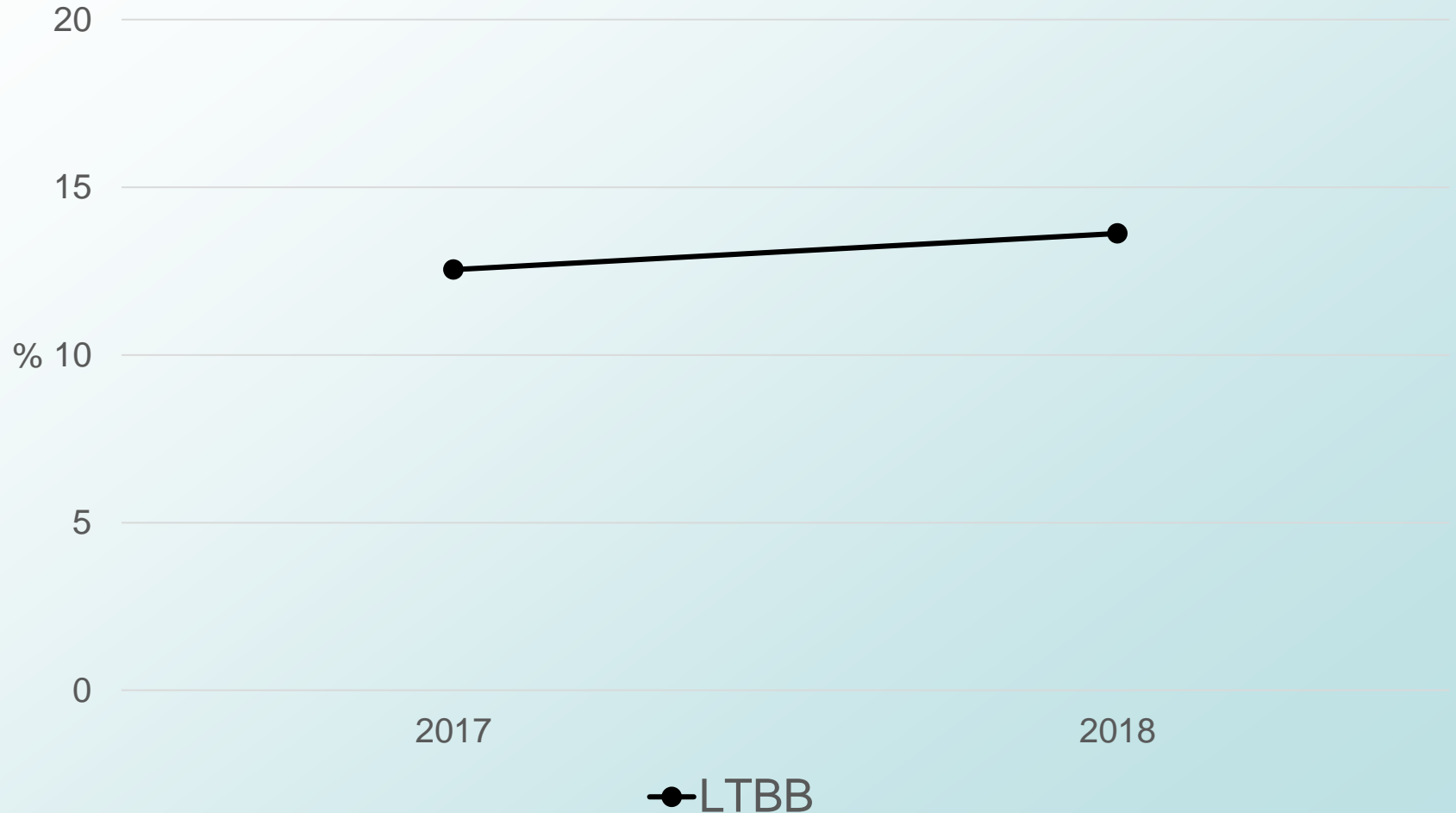
# Trends in past month marijuana use – Ages 21+



# Past month recreational marijuana use in 2018



# Trends in past month recreational marijuana use – Ages 21+





# In summary...

- Past year and past month marijuana use among LTBB youth has risen over time, although has plateaued or declined in the last two years.
- Perceived risk of harm from marijuana use has declined over time among LTBB youth.
- LTBB youth are generally similar to Emmet Co and Michigan youth with respect to use and perceptions of risk.
- Generally more use and lower perceptions of risk among females compared to males.
- Slight increase over last two years in use among adults.
  - No gender differences
  - Use declines with age

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