

*BSPS 2017*

# HOMICIDE INCREASE VARIATION IN LIFESPANS IN MEXICO AND ITS STATES

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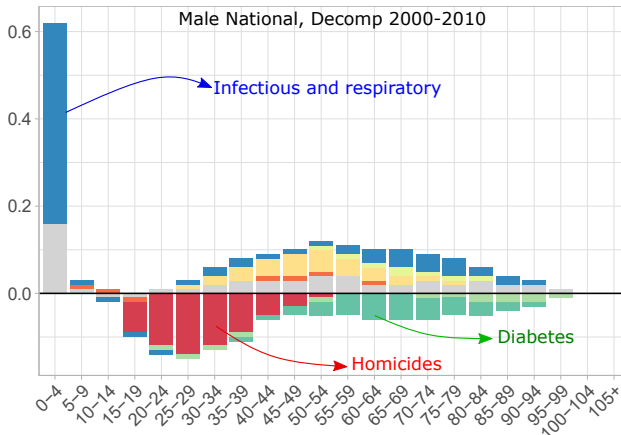
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- ▶ This region has the **highest** homicide rate in the world (16.3 per 100,000).
- ▶ Central American countries → **upsurge** in homicides in the new century.
- ▶ **In Mexico, rates doubled between 2007 and 2012** (9.3 → 18.6).

As a result

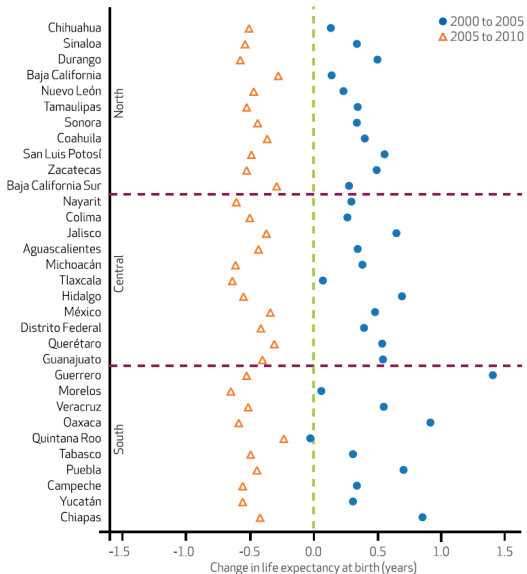
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**Changes In Male Life Expectancy At Birth In Mexico, By State And Period, From 2000 To 2005 And From 2005 To 2010**





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- ▶ We make decisions based on **both**.
- ▶ Expresses a **fundamental inequality**.
- ▶ Homicides affect mainly **young men**.

# Classification of deaths

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6. Homicide
7. Road traffic accidents
8. Rest.



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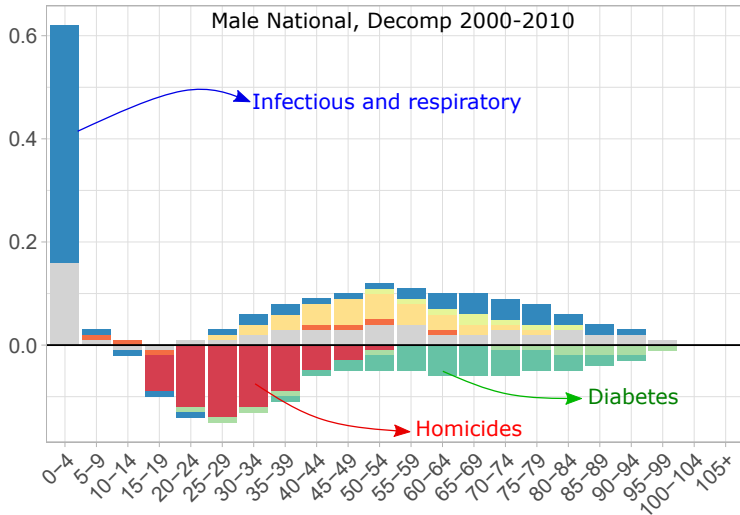
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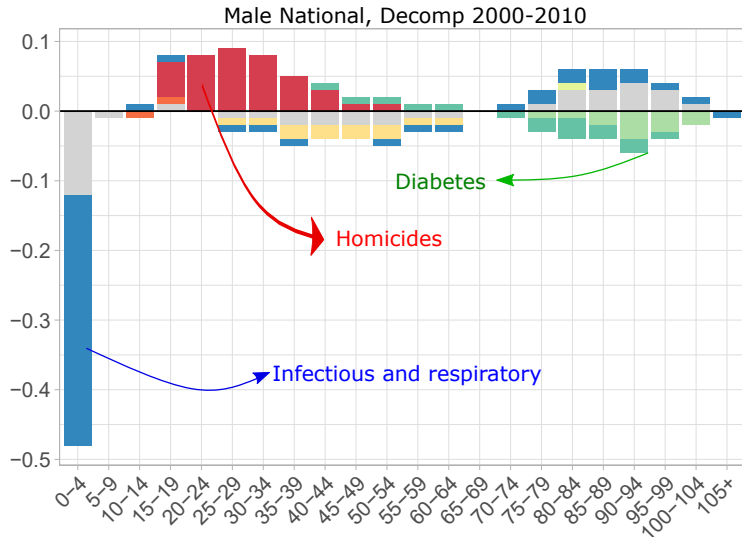
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- ▶ Easy **public health interpretation**.
- ▶ Quantify age and cause specific effect in  $e^{\dagger}$ .
- ▶ Separate ages that **decrease** from those that **increase**  $e^{\dagger}$ .

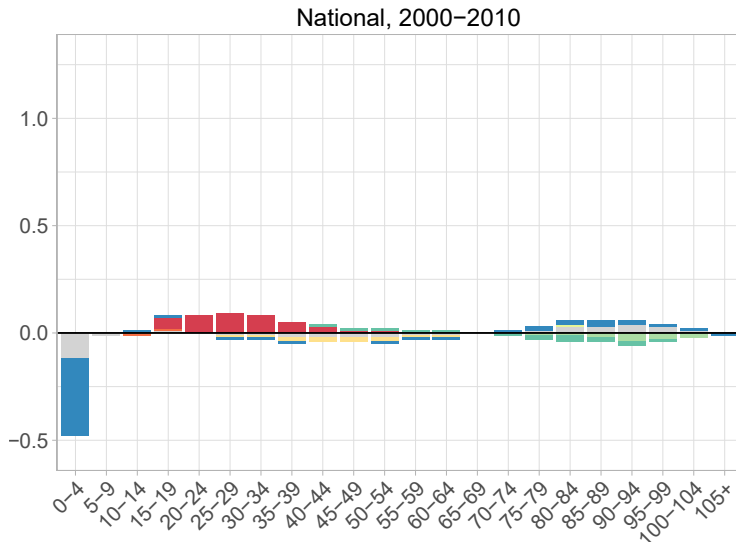
## Remember the stagnation in 2000-10?



Now  $e^{\dagger} \sim 15y$

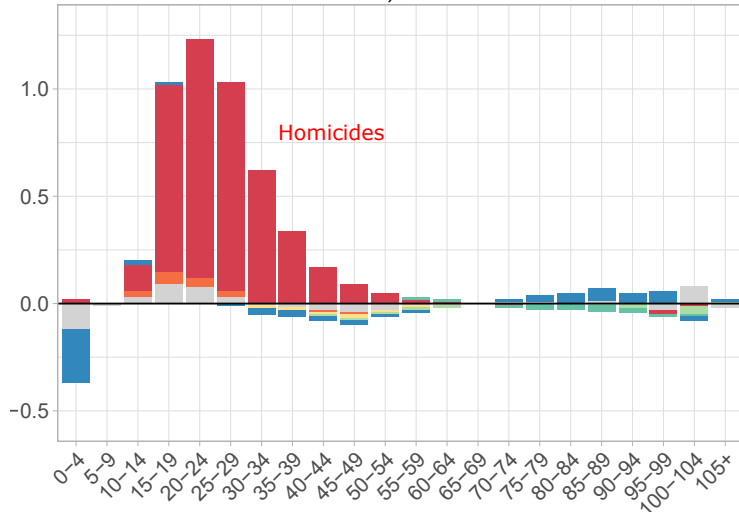


# Now rescale

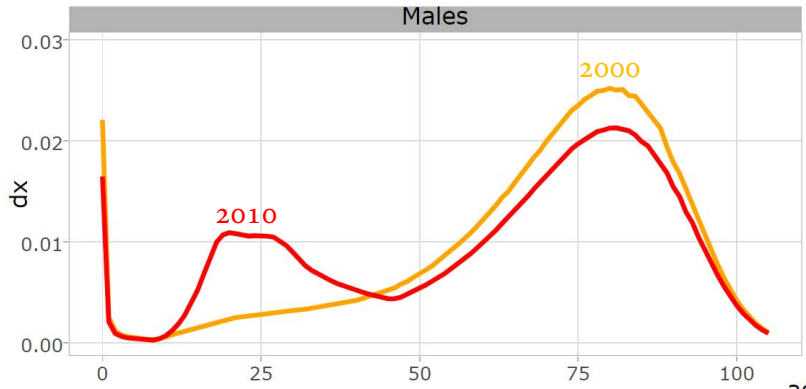


# Now the most dangerous state in Mexico in 2010

## Chihuahua, 2000-2010

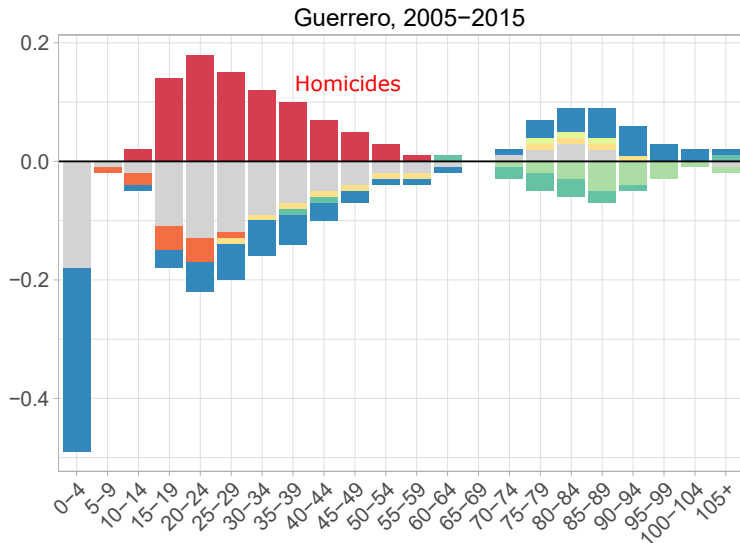


Rates 3 times of US troops in Iraq between 2003 and 2006!

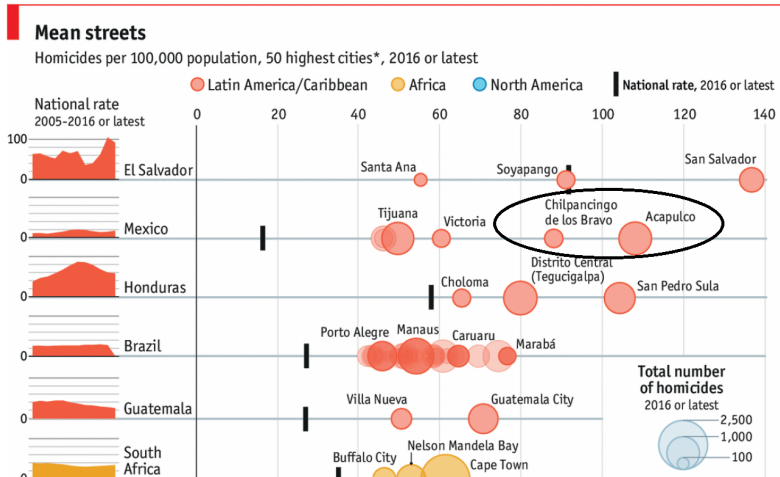




# Now in the last decade, 10y of War on drugs!!



## 2 of most dangerous cities in the world in 2016 in this state (The Economist)!



10 years and still not recovered!

# Challenge of Mexico: reduce violence

More information:

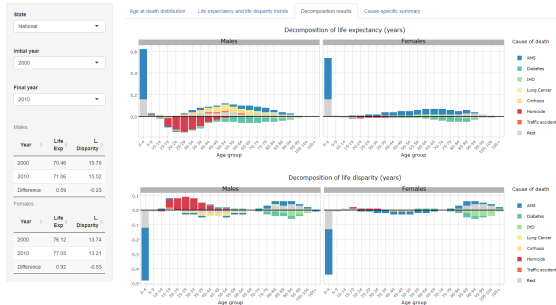
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Shinyapp: [https://jmaburto.shinyapps.io/LVMx\\_App/](https://jmaburto.shinyapps.io/LVMx_App/)

Lifespan variation in Mexico, 1995-2015



Aburto JM & Beltrán-Sánchez H. "The Impact of violence on lifespan variation in Mexico and its states, 1995-2015". Max Planck Center on the Biodemography of Aging, 2017