# 2019 LEGAL EPIDEMIOLOGY SYMPOSIUM

**Looking Back and Looking Ahead** 

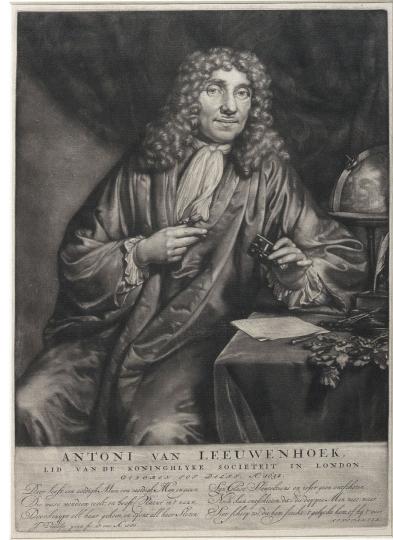


## Peering Into Hidden Worlds: The Past and Future of Legal Epidemiology

Michelle Mello, JD, PhD



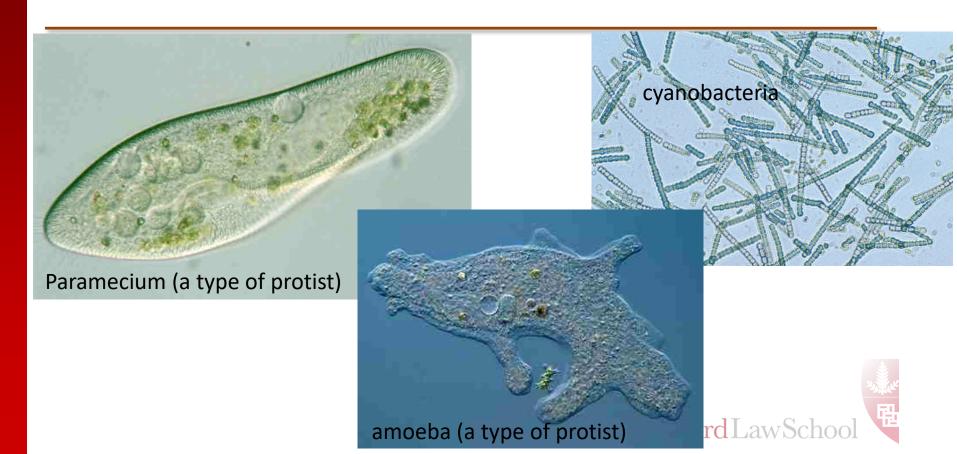




Portrait of Leeuwenhoek at age 54 by Jan Verkolje (1686)

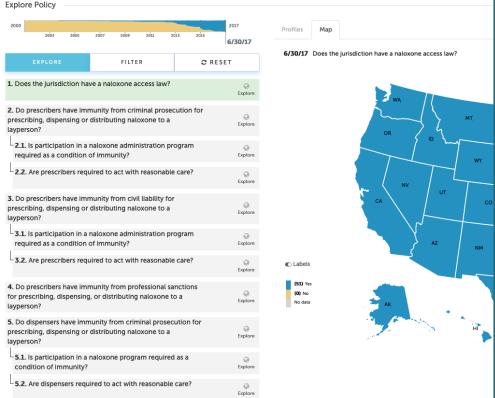
Sources: The Royal Society; Lane, 370 Phil. Transactions Royal Soc. Brit. 20140344 (2015)

## Van Leeuwenhoek's "Tiny Animals"



Unintentional drug overdose is a leading cause of preventable death in the United States. Administering naloxone hydrochloride ("naloxone") can reverse an opioid overdose and prevent these unintentional deaths. This dataset focuses on state laws that provide civil or criminal immunity to licensed healthcare providers or lay responders for opioid antiagonist administration.

This is a longitudinal dataset displaying laws from January 1, 2001 through July 1, 2017.











CODEBOOK



Questions		
Question 1:	Does the jurisdiction have a naloxone access law?	
Question Type:	Categorical - mutually exclusive	
Variable Name:	NAAddressOAAYN	
Variable Values:	1, 2	
Value Label:	1 = Yes	
Value Label:	2 = No	
Question 2:	Do prescribers have immunity from criminal prosecution for prescribing, dispensing or distributing naloxone to a layperson?	
Question Type:	Categorical - mutually exclusive	
Variable Name:	NAHealthCrimProYN	
Variable Values:	1, 2	
Value Label:	1 = Yes	
Value Label:	2 = No	
Question 3:	Is participation in a naloxone administration program required as a condition of immunity?	
Question Type:	Categorical - mutually exclusive	
Variable Name:	NANAPImm1YN	
Variable Values:	1, 2	
Value Label:	1 = Yes	
Value Label:	2 = No	
Question 4:	Are prescribers required to act with reasonable care?	
Question Type:	Categorical - mutually exclusive	
Variable Name:	NARCImm1YN	
Variable Values:	1, 2	
Value Label:	1 = Yes	
Value Label:	2 = No	
Question 5:	Do prescribers have immunity from civil liability for prescribing, dispensing or distributing naloxone to a layperson?	
Question Type:	Categorical - mutually exclusive	
Variable Name:	NAHealthCivLiaYN	
Variable Values:	1, 2	



Painting by Ernest Boar.



Home » American Journal of Public Health (AJPH) » **July 2013** 

#### Public Health and Law Collaboration: The Philadelphia Lead Court Study

Carla Campbell MD, MS, Ed Gracely PhD, Sarah Pan MPH, Curtis Cummings MD, MPH, Peter Palermo MS, and George Gould Esq

[+] Author affiliations, information, and correspondence details

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compliance.

(P < .001)

### Abstract Full Text References PDF PDF Plus

Objectives. We determined whether Philadelphia Lead Court is effective in enforcin remediation in the homes of children with elevated blood lead levels.

Methods. We created a deidentified data set for properties with an initial failed hor for lead hazards from January 1, 1998, through December 31, 2008, and compared within the first year and time to compliance for lead hazard remediation between 1 (precourt period) and between 2003 and 2008 (court period). We evaluated predict

Results. Within 1 year of the IFHI, 6.6% of the precourt and 76.8% of the court cases compliance (P<.001) for the 3764 homes with data. Four years after the IFHI, 18% is compliance in the precourt period compared with 83.1% for the court period (P<.0 hazard analysis found that compliance was 8 times more likely in the court than the

Home » American Journal of Public Health (AJPH) » October 2012

#### **Local Legal Infrastructure and Population Health**

Julia F. Costich JD, PhD, and Dana J. Patton PhD

[+] Author affiliations, information, and correspondence details

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infrastructure identified and population health status.

#### Abstract Full Text References PDF PDF Plus

outcomes.

Methods. Our unit of analysis was public health jurisdictions with at least 100 000 residents. The dependent variable was jurisdiction premature mortality rates obtained from the Mobilize Action

expressed in the exercise of local fiscal and legislative authority, and local population health

Objectives. We explored the association between the legal infrastructure of local public health, as

dependent variable was jurisdiction premature mortality rates obtained from the Mobilize Action

Toward Community Health (MATCH) database. Our primary independent variables represented local public health's legal infrastructure: home rule status, board of health power, county government

structure, and type of public health delivery system. Several control variables were included. We use

Results. The analyses suggested that public health legal infrastructure, particularly reformed county government, had a significant effect on population health status as a mediator of social determinan of health.

a regression model to test the relationship between the varieties of local public health legal

# Criteria

### **Critical Opportunities for Public Health Law: A Call for Action**

Michelle M. Mello, JD, PhD, MPhil, Jennifer Wood, PhD, Scott Burris, JD, Alexander C. Wagenaar, PhD, Jennifer K. Ibrahim, PhD, MPH, and Jeffrey W. Swanson, PhD, MA

# Addresses a problem of public health significance

- Prevalence of the health condition
- Severity of harm
- Distributional effects

Plausibly amenable to change through law

 Health problem is causally related to behaviors, conditions, or other determinants that could plausibly be influenced by law

Plausible legal intervention identified

- Likely to be effective
- No insurmountable legal barriers
- Political opposition could be overcome in time

# 10 Great Public Health Achievements of the 20<sup>th</sup> Century

Recognition of tobacco use as a health hazard	Decline in deaths from coronary heart disease and stroke
Motor vehicle safety	Safer and healthier foods
Fluoridation of drinking water	Healthier mothers and babies
Control of infectious disease	Family planning
Vaccination	Safer workplaces





Painting by Ernest Boar.





### **Looking Ahead**

## Big Data

- From econometrics to data science
- Large datasets

## Big Issues

- Social determinants
- Climate change and global law
- Trust in institutions

