

EXPLORING POLICY SURVEILLANCE

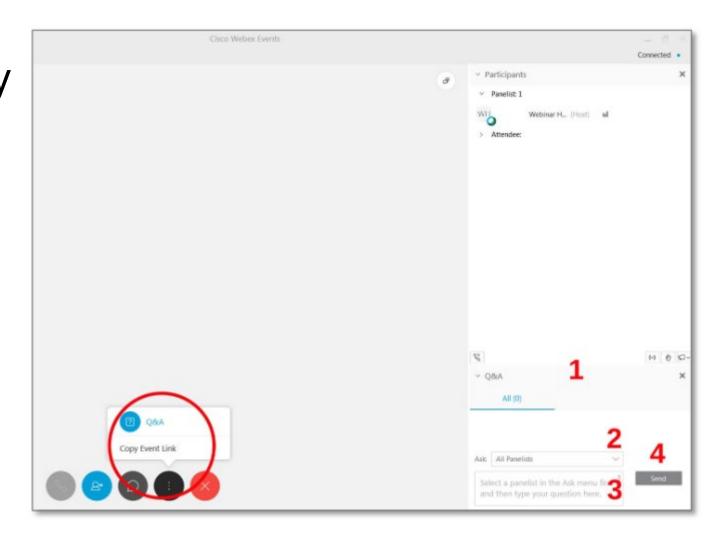
Part 1: Policy Surveillance Methods and Standards

January 15, 2019, 1:00-2:30 p.m. ET

Presented by THE POLICY SURVEILLANCE PROGRAM A LawAtlas Project

How to use WebEx Q&A

- 1. Open the Q&A panel by clicking the "..." button on the bottom of the screen and selecting "Q&A"
- 2. Select "All Panelists"
- 3. Type your question
- 4. Click "Send"



Moderator



Scott Burris, JD

Director, Center for Public Health Law Research

Professor, Temple University Beasley School of Law

Presenters



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University

You Should Know...

I am a founder and board member of Legal Science LLC, a private company that provides MonQclesm software for collection and coding of legal data for policy surveillance.

Law Is Essential to Public Health, but...

- How do we know the impact of law?
- How do we ensure the widespread adoption of laws that support health?
- How do we engage public health systems in public health law evaluation, implementation and diffusion?



Making the Case for Laws That Improve Health: A Framework for Public Health Law Research

SCOTT BURRIS, ALEXANDER C. WAGENAAR, JEFFREY SWANSON, JENNIFER K. IBRAHIM, JENNIFER WOOD, and MICHELLE M. MELLO

Temple University; University of Florida; Duke University; Harvard University

But big challenges to effectively using law in public health...

- How do we know the impact of law?
- How do we ensure the widespread adoption of laws that support health?
- How do we engage public health systems in public health law evaluation, implementation and diffusion?

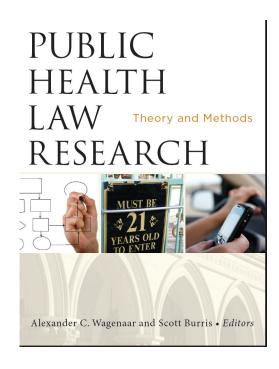
It All Begins with Measuring Law



Referenced
in > 100
peerreviewed
studies and
analyses

Legal Epidemiology (Public Health Law Research)

"The scientific study of the relation of law and legal practices to population health."

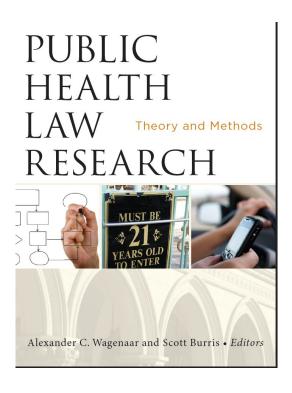






Legal Epidemiology

"The scientific study of the relation of law and legal practices to population health."



POLICY
SURVEILLANCE
The ongoing
systematic
collection and
analysis of laws
of public health
significance

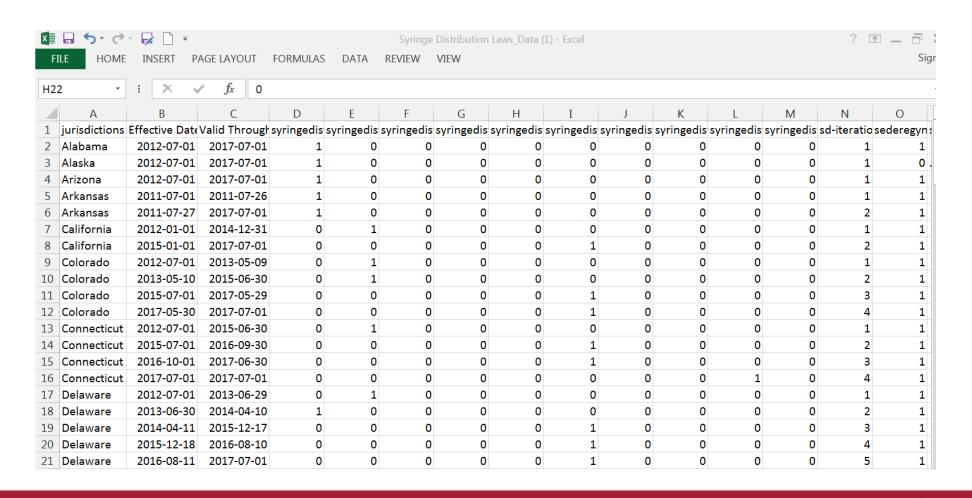
Major Point 1

- Policy surveillance is rooted in observation of the apparent features of legal texts.
- We can accommodate a broad definition of legal texts,
 BUT
 - We are observing text, not implementation that is an important part of legal epi but is not PS
 - Not observing policy as settled practice must have a text
 - Not interpreting what the law means reporting what it says

Observation, Not Interpretation

- Policy surveillance is rooted in observation of the apparent features of legal texts.
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 BUT
 - We are observing text, not implementation that is an important part of legal epi but is not PS
 - Not observing policy as settled practice must have a text
 - Not interpreting what the law means reporting what it says

The Paradigm Shift: Transforming Text of Law into Numerical data



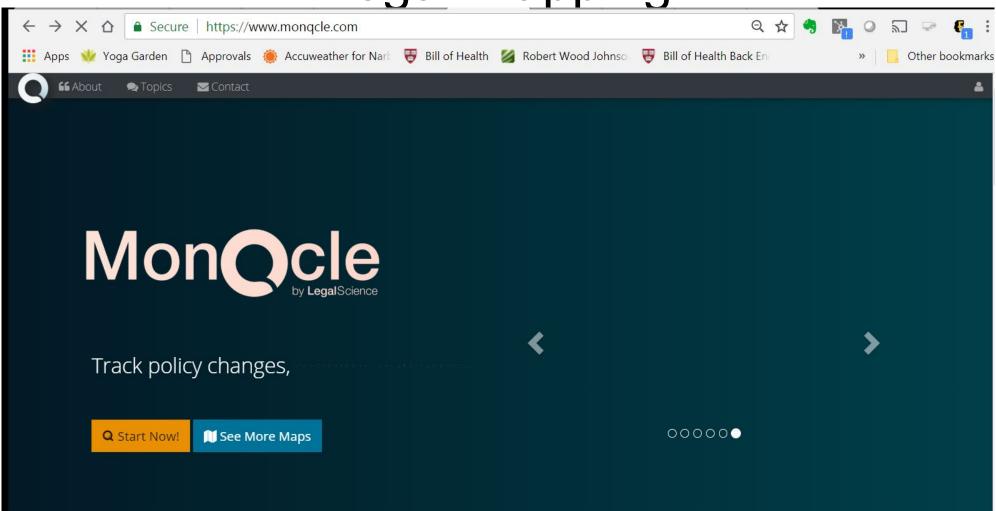
Law as Data: Changing the Value Equation

Three Pillars of Greater Efficiency:

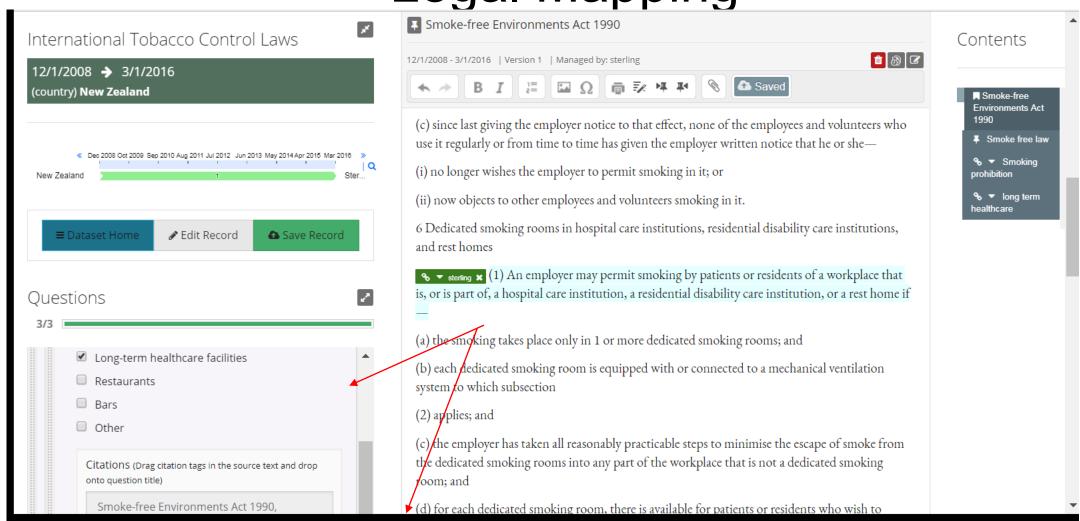
- 1. Use transparent, reproducible and credible methods to turn text of law into quantitative data
- 2. Reduce costs and increase productivity through technology
- 3. Produce data with multiple uses



Technology: Software Designed for Legal Mapping



Technology: Software Designed for Legal Mapping









Global Abortion Policies Database

The Global Abortion Policies Database is designed to strengthen global efforts to eliminate unsafe abortion by producing an interactive openaccess database and repository of current abortion laws, policies, and national standards and guidelines. This tool builds upon the UNPD's previous work in this area, resulting in a more comprehensive information resource on abortion policies in the 21st century. The database will facilitate analyses of countries' abortion laws and policies when they are placed in the context of WHO guidelines and human rights norms and standards. It is intended to help states identify and eliminate the barriers that women encounter in accessing safe abortion services. It is also intended to increase both the transparency of abortion laws and policies and to ensure accountability for the protection of women's health and their human rights. Please cite the GAPD as - Global Abortion Policies Database [online database]. Geneva: World Health Organization: 2018 (https://srhr.org/abortion-policies/, access date [day/month/year]).







Policy Surveillance Methods and Standards

Lindsay K. Cloud, JD Center for Public Health Law Research Temple University Beasley School of Law

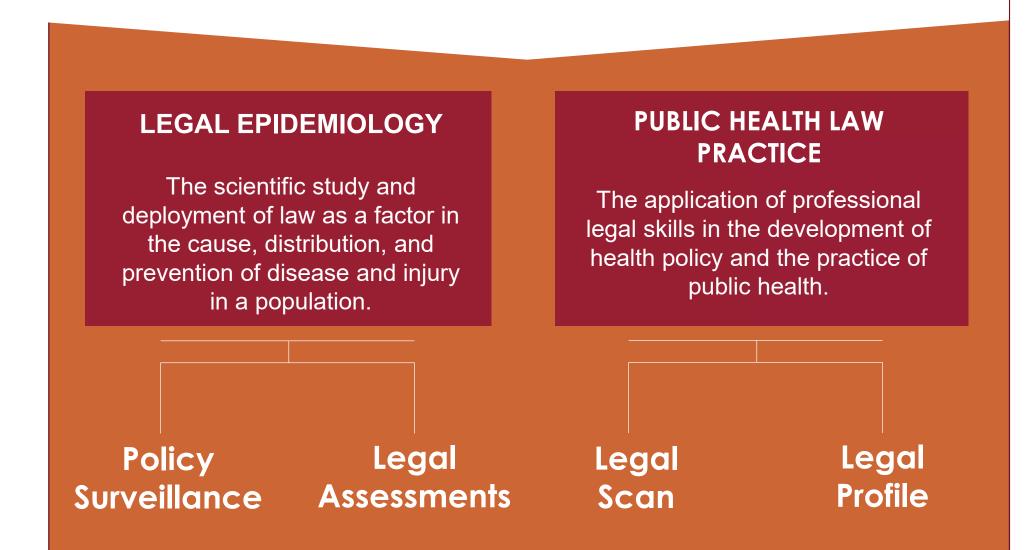


Legal Mapping Methods...

get lost in the right direction



Legal Mapping





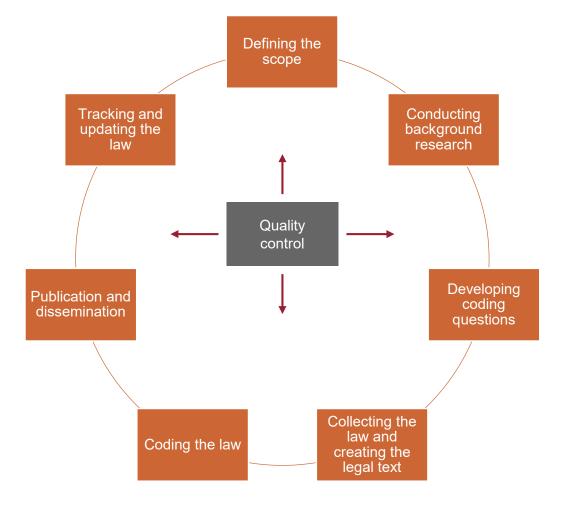
Three Pillars of Greater Efficiency

Use transparent, reproducible and credible methods to turn text of law into quantitative data

Reduce costs and increase productivity through technology

Produce data with multiple uses

The Policy Surveillance Process







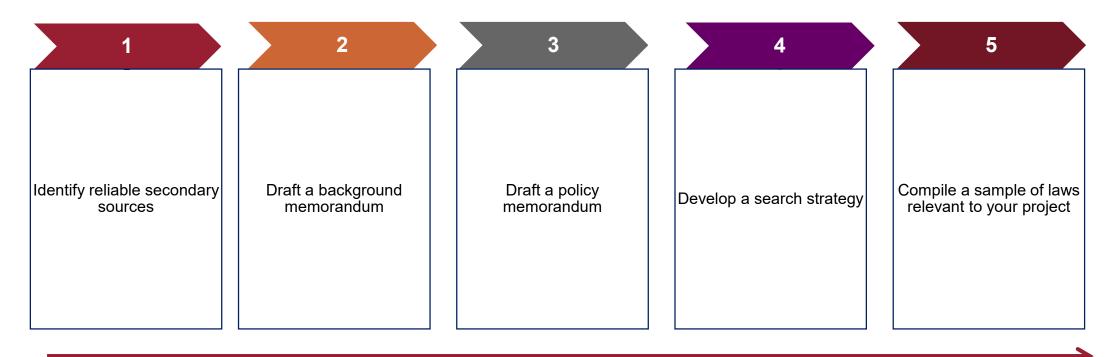
SURVEILLANCE PROGRAM A LawAtlas Project

Identifying the topic and parameters for your project





Background Research



Keep your methods flexible enough in order to **refine the scope** throughout

Utilize your networks and consult a subject matter expert





Drafting Coding Questions

	Definition	Example
Observation	Things we measure (facts)	What is the initial duration of involuntary outpatient commitment?
Interpretation	Conclusions we derive from those observations (opinions)	Is the initial duration of involuntary outpatient commitment long?



Redundant research

R1 divergences Record citations Researcher 1 Identical laws Record citations **Researcher 2** R2 divergences



Collecting the law

Find and collect important information about laws relevant to the topic being studied in each jurisdiction

Important Info:

- Citations
- Effective dates
- Statutory history
- Text of the law



Coding the law

The goal is to read, observe, and record the law, rather than reading and interpreting the law!

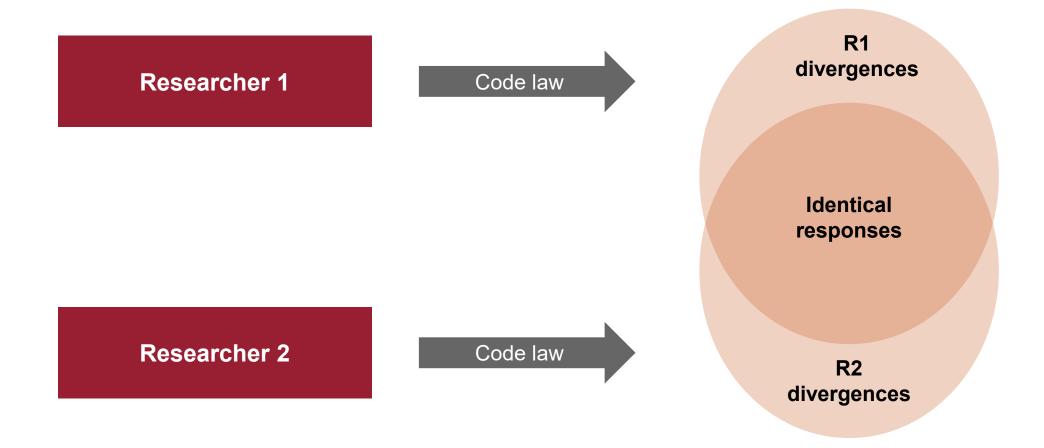
Develop Questions

Collect laws

Code answers to questions based on collected law



Redundant coding





Statistical Quality Control

Legal data from project Identify coding instances to compare

> Identical responses

Legal data

divergences

Redundant coder divergences Supervisor compares and reviews responses

Accurate responses are coded

Redundant coder

Code matching coding instances

Coding turns TEXT to DATA...



allowing for rigorous evaluation research!

Tex. Health & Safety Code § 171.002. Definitions.

In this chapter:

- (1) "Abortion" means the use of any means to terminate the pregnancy of a female known by the attending physician to be pregnant with the intention that the termination of the pregnancy by those means will, with reasonable likelihood, cause the death of the fetus.
- (2) "Abortion provider" means a facility where an abortion is performed, including the office of a physician and a facility licensed under Chapter 245.
- (3) "Medical emergency" means a life-threatening physical condition aggravated by, caused by, or arising from a pregnancy that, as certified by a physician, places the woman in danger of death or a serious risk of substantial impairment of a major bodily function unless an abortion is performed.
- (4) "Sonogram" means the use of ultrasonic waves for diagnostic or therapeutic purposes, specifically to monitor an unborn child.

Tex. Health & Safety Code § 171.0031. Requirements of Physician; Offense

- (a) A physician performing or inducing an abortion:
- (1) <u>must</u>, on the date the abortion is performed or induced, have active admitting privileges at a hospital that:
- (A) is located not further than 30 miles from the location at which the abortion is performed or induced; and
- (B) provides obstetrical or gynecological health care services; and
- (2) shall provide the pregnant woman with:
- (A) a telephone number by which the pregnant woman may reach the physician, or other health care personnel employed by the physician or by the facility at which the abortion was performed or induced with access to the woman's relevant medical records, 24 hours a day to request assistance for any complications that arise from the performance or induction of the abortion or ask health-related questions regarding the abortion; and
- (B) the name and telephone number of the nearest hospital to the home of the pregnant woman at which an emergency arising from the abortion would be treated.
- (b) A physician who violates Subsection (a) commits an offense. An offense under this section is a Class A misdemeanor punishable by a fine only, not to exceed \$4,000.



TRAP_AFL_FacReqLic	TRAP_AFL_FacReqAcc	TRAP_AFL_Penalties_ Fines	TRAP_AFL_Penalties_ Criminal penalties	TRAP_AFL_Penalties_ Licensing sanctions against a facility
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increases usability and feasibility!

- A complete list of all the questions coded in a legal dataset
- Question types
- Variable names, values and labels

Questions	
Question 1:	Does state law specifically address youth sports TBIs?
Question Type:	Categorical - mutually exclusive
Variable Name:	SCAnyLaw
Variable Values:	1, 2
Value Label:	1 = Yes
Value Label:	2 = No
Question 2:	Does the law require a student athlete with a suspected TBI to be removed from play?
Question Type:	Categorical - mutually exclusive
Variable Name:	SCRemoval
Variable Values:	1, 2
Value Label:	1 = Yes
Value Label:	2 = No
Question 3:	Must the parent or guardian be notified of the suspected or diagnosed TBI?
Question Type:	Categorical - mutually exclusive
Variable Name:	SCParNotf
Variable Values:	1, 2
Value Label:	1 = Yes
Value Label:	2 = No

A Research Protocol...



ensures your project is replicable and transparent!

Outlines the entire methodology and process of the project, including:

Scope of the Project

- Dates of the project
- Team involved
- Jurisdictions
- Purpose of the project
- Variables

Data Collection Methods

- Search strategy
- Databases used

Coding Methods

- Coding scheme
- Definitions of terms of art

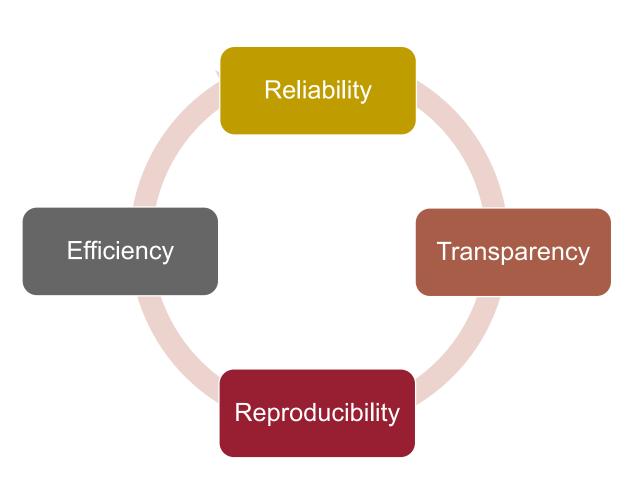
Quality Control

 Description of methods or processes used



Key Takeaways

- ✓ Choose a credible method
- ✓ Apply it systematically
- ✓ Incorporate quality control







THANK YOU!

KEEP IN TOUCH

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Twitter: @LawAtlas

Youtube: YouTube.com/LawAtlasorgTemple





Milken Institute School of Public Health

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Overview

- Getting Started
- Research Methodology
- Role of the Taxonomy
- Role of Audience/User
- Quality Assurance
- Points of Interest
- Examples





Getting Started

- Goal: Analysis and categorization of legal texts based on pre-selected categories and/or topics
- Selecting an area of focus
- Scoping
 - Narrow vs. broad
 - Longitudinal vs. point in time
 - Comparative vs. descriptive
- Developing a taxonomy





Role of Taxonomy

- Define research parameters
- Define terminology/variants
- Define categories/topics
- Define variables, if any
- Guide research
- Inform audience/user





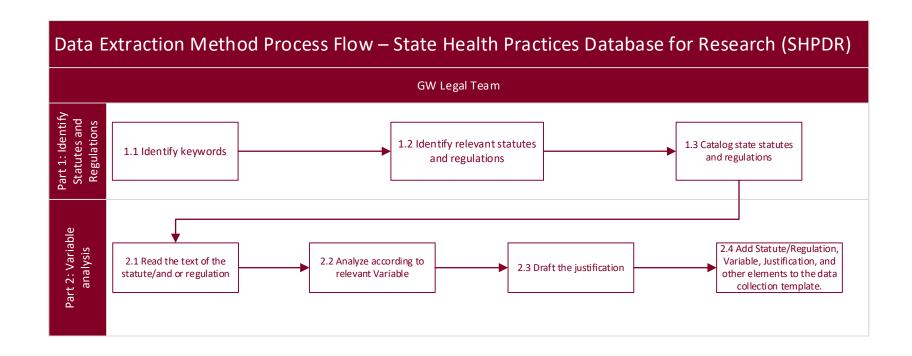
General Research Methodology

- Based on taxonomy, identify keywords for topic(s) and subtopic(s) if any
- Use keywords to search legal texts for topic specific statutes and regulations using specific state sample (pilot testing); Refine and revise keywords as needed
- Document methodology for keyword selection and state statute/regulation identification
- Scale out to other topics and states
 - Identify keywords
 - Using keywords, identify topic-specific statutes and regulations within time parameters
 - Remove or explain outliers
- Extract identified statutes and regulations from primary source
- Define variables (if any) and apply to statutes and regulations
- Draft summaries and/or additional explanatory texts or graphics
- Populate research template/database with key elements of identified statutes and regulations, including variable analysis (if any), additional analysis (if any), and link to primary text





Example: SHPDR Research Methodology



SHPDR Project Funded by NIH.

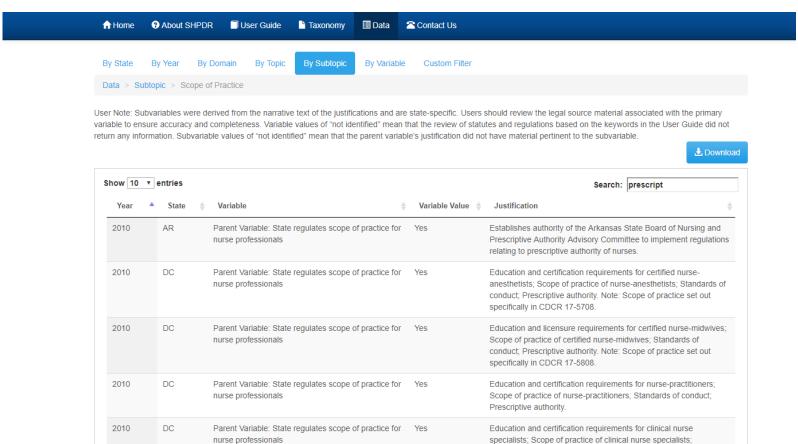




Output

- Database of state statutes and regulations organized by topics and subtopics defined in the taxonomy
- May also include:
 - Federal law
 - Summaries of legal texts
 - Analyses of legal texts
 - Links directly to relevant federal and state law
 - Additional tools and resources

Example from SHPDR: Licensing laws, nurse practitioner prescriptive authority



Parent Variable: State regulates scope of practice for Yes

Parent Variable: State regulates scope of practice for Yes

nurse professionals

physician assistants

Standards of conduct; Prescriptive authority. Note: Scope of

Definitions for all health occupations; "Practice by physician

assistants" means the performance, in collaboration with a licensed physician or osteopath, of acts of medical diagnosis and treatment,

Prescriptive authority for advanced nurse practitioners.

practice set out specifically in CDCR 17-6008.

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2010

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Example from Healthinfolaw: Comparative Map

Who Owns Medical Records: 50 State Comparison

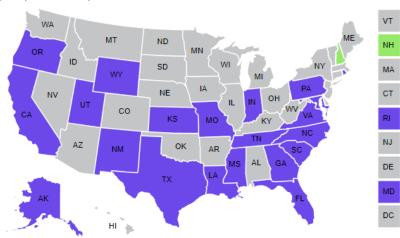


This map and table show laws that confer ownership of a medical record to a health care provider, hospital, or patient. We did not include laws that only apply to specific providers other than physicians (such as chiropractors and optometrists) or facilities other than hospitals (such as ambulatory surgery centers, birth centers, abortion clinics, nursing homes, prisons, and schools). Note that there may be court decisions regarding record ownership that apply to providers in a particular state under common law even where there is no statute or regulation (e.g., McGarry v. J.A. Mercier Co., 272 Mich. 501, 262 N.W. 296 (1935) (Michigan case holding that x-ray negatives were the property of the physician who made them, not the patient); Holtkamp Trucking Co. v. David J. Fletcher, M.D., L.L.C., 402 Ill. App. 3d 1109, 932 N.E.2d 34 (2010) (Illinois case holding that medical records were physician's property)). Many states have specific laws addressing how providers must maintain, protect, and dispose of records, as well as laws giving patients, providers, and others access to medical records, regardless of ownership status. In addition, patients in all states have many rights with respect to their medical records under the HIPAA Privacy and Security Rules.

Notes

- * Provider ownership of medical record is referenced in language of law
- ± Ownership is of the physical conveyance for the medical information
- ‡ Ownership is of the information contained in the record

[Last Updated 08/20/15]



Click on a state to see more information on Medical Records Collection, Retention, and Access in that state

Medical Record Ownership Laws

- Hospital and/or physician owns medical record
- Patient owns information in medical record
- No law identified conferring specific ownership or property right to medical record



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State	Medical Record Ownership Laws	Details
Alabama	No law identified conferring specific ownership or property right to medical record	
Alaska	Hospital and/or physician owns medical record	<u>Alaska Admin. Code tit. 7. § 12.770:</u> The medical records, including x-ray films, are the property of the facility (applies to hospitals and other specified health care facilities).
Arizona	No law identified conferring specific ownership or property right to medical record	
Arkansas	No law identified conferring specific ownership or property right to medical record	
California	Hospital and/or physician owns medical record	Cal. Code Regs. tit. 22, § 70751: Medical records are the property of the hospital.
Colorado	No law identified conferring specific ownership or property right to medical record	
Connecticut	No law identified conferring specific ownership or property right to medical record	
Delaware	No law identified conferring specific ownership or property right to medical record	
District of Columbia	No law identified conferring specific ownership or property right to medical record	
Florida	Hospital and/or physician owns medical record	<u>Fla. Stat. § 456.057</u> ; Defines "records owner" as any health care practitioner who generates medical record after treating patient, any health care practitioner to whom records are transferred by a previous owner, or any health care practitioner's employer.
Georgia	Hospital and/or physician owns medical record	Ga. Code Ann. § 31-33-3: All records are owned by and are property of provider.
Hawaii	No law identified conferring specific ownership or property right to medical record	
Idaho	No law identified conferring specific ownership or property right to medical record	



Role of Audience/User

- Who is your audience(s)?
- What data/information do they need?
- For what purpose(s) will the data be used?
- Disclaimers
- Role of the User Guide





Quality Assurance

- Pre-defined QA methodology
 - Must be understandable, replicable, and scalable
 - Role of primary researchers and secondary reviewers
 - Full oversight review for accuracy and consistency post data extraction
 - Final review of entire dataset prior to launch
- User confidence Accuracy and accountability
- Describe in User Guide

Points of Interest

- Variation in state statutes and regulations
 - Terminology
 - Organization, including state code changes over time
- Interpretation/communication of data
- Limitations:
 - Other sources of law (e.g., executive orders, case law, Federal)
 - Law in practice
 - Funding
- Statutes/regulations may not reflect policy and neither may reflect practice
- Working with other disciplines





Examples

- State Health Practice Database for Research: Broad, Comparative and Descriptive, Longitudinal (funded by NIH, formerly available at shpdr.org)
- Healthinfolaw.org: Narrow,
 Comparative and Descriptive, Point in time (initial funding from RWJF)



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WASHINGTON, DC



Going a Step Further with Data

Center for Public Health Law Research

Presented by: Heidi E. Grunwald, PhD





Agenda

- Data, codebooks, protocols
- A brief note about statistical quality control
- Types of data
- What more can be done with empirical legal (EL) data besides mapping and comparative analyses?
 - Evaluation of legal interventions
 - Policy ratings/rankings
 - Interactive data systems



Coding turns legal TEXT into DATA

Texas legal text

Effective: 8/1/16 - Through: 8/31/17

Tex. Health & Safety Code § 171.002. Definitions.

In this chapter:

- (1) "Abortion" means the use of any means to terminate the pregnancy of a female known by the attending physician to be pregnant with the intention that the termination of the pregnancy by those means will, with reasonable likelihood, cause the death of the fetus.
- (2) "Abortion provider" means a facility where an abortion is performed, including the office of a physician and a facility licensed under Chapter 245.
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We produce data products for epidemiologists / statisticians

- Protocol step-by-step methods used to create dataset
- Codebook variable names, types, values & labels
- Downloadable Excel or csv data files easily uploaded to various statistical programs



Statistical Quality Control: Recall the Initial Build Process

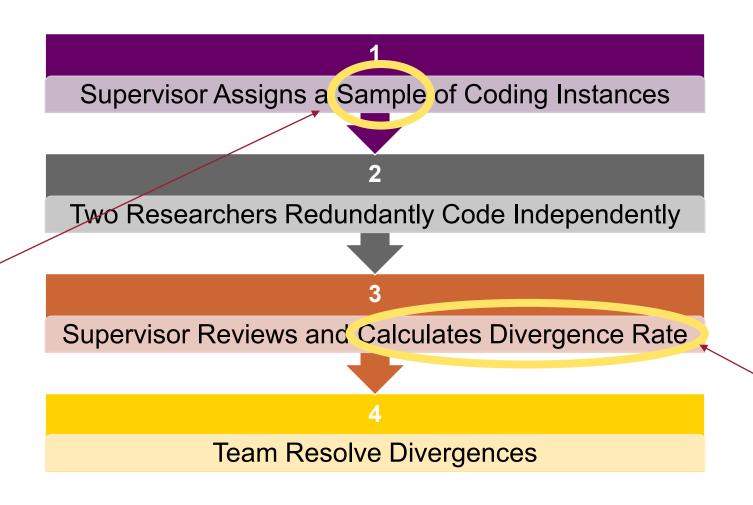
Currently a

sample of

state/time

instances?

simple random



divergent records / total records coded



How is the SQC process done?

➤Once a dataset is completed, a simple random sample is selected from all state / time instances in a dataset. This can be a very large number, some of our longitudinal datasets have more than 11,000,000 records.

➤ We calculate the needed sample size

$$\mathsf{n} = \frac{(Z^2 p * (1-p))}{E^2}$$

Where:

Z = Z value (1.96 for 95% confidence level)

p = probability that we detect an error (.1 used)

 $E = Margin of Error (.05 = \pm 5)$



Final set of redundant coding

➤ A set of two coders redundantly code the sampled units and a divergence rate is calculated. If the divergence rate is below 5%, then we have reach our acceptable level of scientific validity and reliability



Types of Data

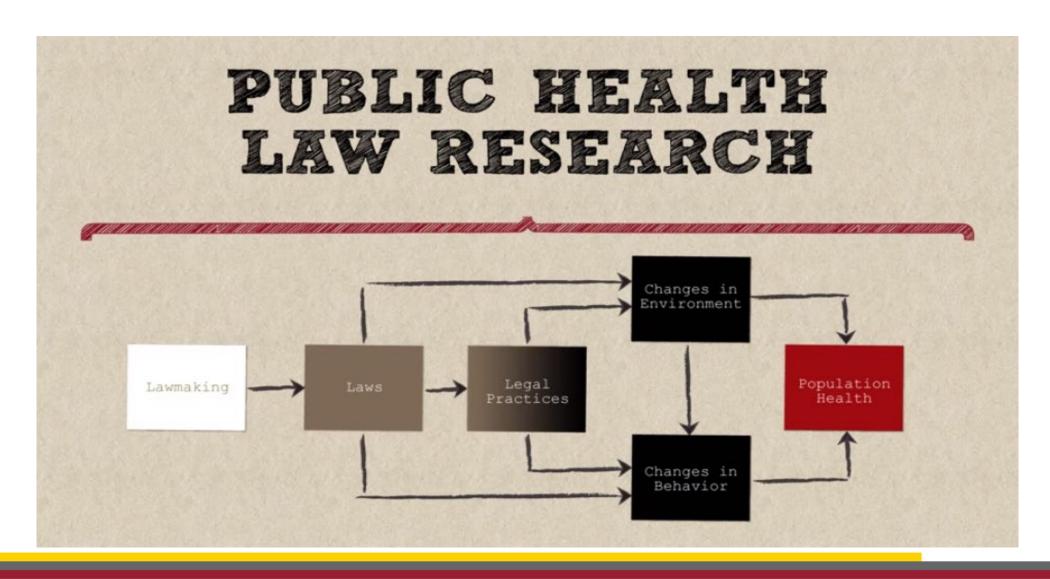
Cross Sectional						
state	Begin	End	anylaw	removal	rtp	
AK	5/30/2012	5/1/2015	1	1	1	
AL	5/10/2012	5/1/2015	1	1	1	
AR	8/16/2014	5/1/2015	1	1	1	

Longitudinal

state	ID	Begin	End	year	anylaw	removal	rtp
AK	1	1/1/2009	8/24/2011	2009	0		
AK	1	1/1/2009	8/24/2011	2010	0		
AK	2	8/25/2011	5/29/2012	2011	1	1	1
AK	3	5/30/2012	5/1/2015	2012	1	1	1
AK	3	5/30/2012	5/1/2015	2013	1	1	1
AK	3	5/30/2012	5/1/2015	2014	1	1	1
AK	3	5/30/2012	5/1/2015	2015	1	1	1
AL	1	1/1/2009	6/8/2011	2009	0		
AL	1	1/1/2009	6/8/2011	2010	0		
AL	2	6/9/2011	5/9/2012	2011	1	1	1
AL	3	5/10/2012	5/1/2015	2012	1	1	1
AL	3	5/10/2012	5/1/2015	2013	1	1	1
AL	3	5/10/2012	5/1/2015	2014	1	1	1
AL	3	5/10/2012	5/1/2015	2015	1	1	1
AR	1	1/1/2009	4/21/2013	2009	0	-	
AR	1	1/1/2009	4/21/2013	2010	0		
AR	1	1/1/2009	4/21/2013	2011	0		
AR	1	1/1/2009	4/21/2013	2012	0		•
AR	2	4/22/2013	8/15/2014	2013	1	1	1
AR	3	8/16/2014	5/1/2015	2014	1	1	1
AR	3	8/16/2014	5/1/2015	2015	1	1	1



The end game: Legal Evaluation



Research Questions Can Span the Spectrum of the Logic Model

Legal Drivers

- Legal Provision
- Administrative
 Law
- Administrative
 Structure
- Appropriations

Implementation

- Authority
- Responsibilities
- Incentivize Behavior
- Organizational Capacity
- Budgeting

Mediators

- Enforcement
- Moral Force of Law
- ResourceDistribution
- Process Capacity

Causal

- Program Changes
- Behavior Changes
- Organizational Changes
- Costs

Outcomes

- Health Outcomes
- OrganizationalOutcomes

Culture, Values, and Socio-Historical Context



Legal Evaluation Analysis

- Legal Evaluation is no different than evaluating any other intervention
- Basic courses on quantitative analysis or statistics would provide the guidance for first two steps (descriptive and bivariate analyses)
- Team with an epidemiologist or quantitative methodologist to carry-out the causal analyses, interpretations





- For an intervention study we need:
 - A clear intervention (a law)
 - Outcome data (what changed)
 - Variation in time (law wasn't always there)
 - Variation in space (law isn't everywhere)
- Statistically control for socio-political differences in treatment and comparison states



Review Designs for Evaluating law

- Research design elements can produce strong evidence of whether a law caused an effect and the magnitude of effect:
 - Incorporate many repeated observations before and after a law is implemented
 - Use highest time resolution possible to examine expected pattern of effects
 - Include multiple comparisons (multiple jurisdictions, groups, or outcomes)
 - Include different types, and (nested) levels of comparisons
 - Replicate the study (across jurisdictions, over time)
 - Examine whether the dose of the law is related to the size of the effect

Analytics for Causal Models

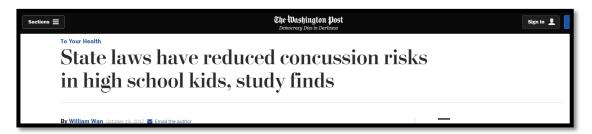
- Causal Analyses (not exhaustive):
 - Random Coefficient Models
 - Difference-in Difference
 - Interrupted Time Series
 - Regression Discontinuity
 - Hierarchical Linear Modelling
 - (M)ANCOVA

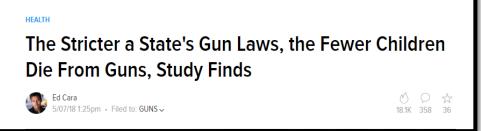




Legal Evaluations Makes Headlines



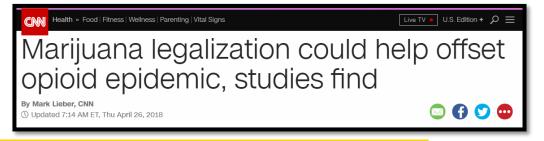






How Increasing The
Minimum Wage Could Lead
To Healthier Babies







Goals of Policy Ratings

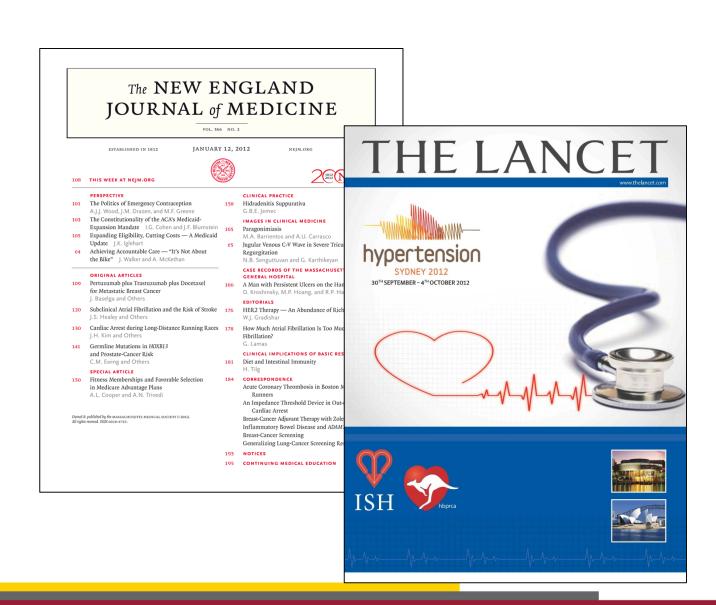
- 1. Provide a systematic, replicable and transparent method for evaluating polices
- 2. Characterize, summarize and synthesize policy landscapes across multiple contexts

3. Highlight progress and show policy makers where more work is needed to improve public health impacts

Review the Evidence Base



- Review evidence related to your policy's impact:
 - Empirical studies
 - Meta-analyses
 - Systematic reviews
 - Expert consensus & Model Policies





Computational Indices (Ratings)

- Ways to compute ratings/rankings from the empirical legal data that the policy surveillance program builds
 - Summative index
 - Weighted summative index
 - Regression coefficients
 - Factor scores resulting from principal components analysis or principal axis factoring

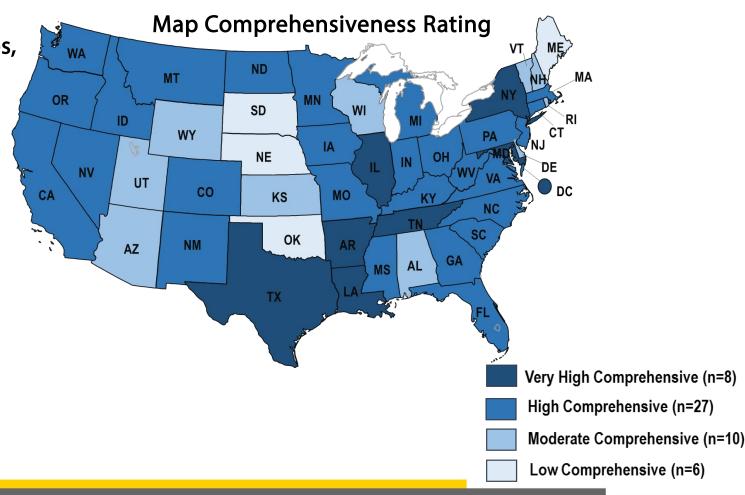
Policy Ratings



 Systematically measures and evaluates a policy based on its observable features and/or impacts on health

Comprehensiveness PAD Law Rating Overall Scores,

Comprehensiveness Rating Classifications of State PAD Law			
Total Score Classification			
22-28	Very High		
15-21	High		
8-14	Moderate		
1-7	Low		





Data through APIs

- Cityhealth.org
- Pdaps.org
- Data to other modern data science systems that mesh data

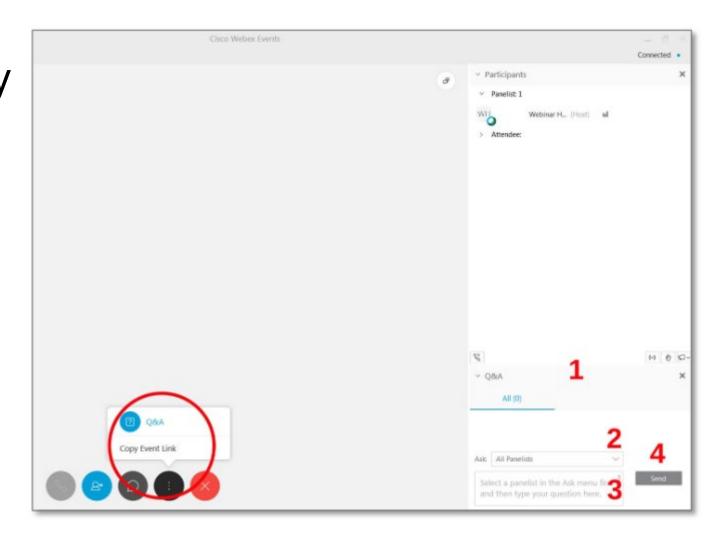


Learning Resources

- Policy Surveillance Program's Learning Library
 - http://LawAtlas.org/Learn
- PHLR.org Theory & Methods Section
 - http://phlr.org/theory-methods
- Public Health Law Academy (ChangeLab Solutions and CDC)
 - https://www.changelabsolutions.org/public-health-law-academy

How to use WebEx Q&A

- 1. Open the Q&A panel by clicking the "..." button on the bottom of the screen and selecting "Q&A"
- 2. Select "All Panelists"
- 3. Type your question
- 4. Click "Send"



Thank You!

Join us February 11 at 11:00 a.m. ET for our next webinar:

Global Policy Surveillance: Challenges and Opportunities

Register at bit.ly/ExplorePS19

