Center for Medical Ethics and Health Policy Health & Science Policy Research Day – Poster Presentations May 27, 2020

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Ethical Challenges of State and Hospital DNR Policy in the Texas Response to COVID-19

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Background

- Historically, conversations on do-no-resuscitate (DNR) status h been guided by:
 - Patient wishes and values
 - Discussions with families
- Physician medical expertise
- The U.S. response to COVID-19 has activated states and hospit across the nation to develop and refine crisis standard of care p • Of primary concern is the allocation of scarce resources, incl ventilators, paralytics, ICU beds, and PPE.
- In developing triage frameworks, policymakers have considere universal do-not-resuscitate (DNR) policies and incorporation prior DNR status into triage decisions
- Some hospitals across the nation have specified the use of unila DNR orders (orders placed by medical professionals without co of proxy)
- U.S. Association of Bioethics Program Directors member hospitals: Seven (26.7%) permit, and the rest (19, 73.1%) do specify the use of unilateral do-not-resuscitate (DNR) orders

Overview of SB11/TADA 166.

- Requirements for valid inpatient do-not-resuscitate orders in Te passed in 2017
- DNR: order instructing physician not to attempt CPR in the e of circulatory or respiratory function cessation
- Not valid in the ED or out-of-hospital settings
- Rationale: patient protection during end-of-life care against unil and unnotified DNR orders
- Stakeholders: Texas citizens and families, hospitals (Texas Hosp Association), medical professionals and professional groups (Te Medical Association), religious groups and associations
- Penalty Class A Misdemeanor
- Limitation of liability for "good faith" decisions or if no knowled

Ethical Question

• What ethical considerations are relevant to the unique requirem of SB11/TADA 166/E during the COVID-19 response and for t events requiring crisis standards of care?

Anveet Janwadkar; Trevor Bibler, Ph.D.

Health Policy and Ethics Tracks Dual Candidate, BCM Center for Medical Ethics and Health Policy

Analysis

have	SB11/TADA 166.E Stipulations	
itals policy luding ed of ateral onsent	 Requirement for DNR issued by "attending physician", is "not contrary to directions" of a patient competent at the time of conveyance with reasonable medical judgement of patient, whose death is "imminent" regardless of CPR (166.203) 	 In sp de Ti cc ab D² m de
onot s Exas event	• Need for a witness that is not part of the medical team for oral DNR requests by competent patients (Issuance 166.203)	
ilateral spital exas	• Ability of surrogate/MPOA to rescind valid DNR previously in-place by patient, now without capacity (166.205(a)2)	
nents future	• In the case of a failure to execute DNR (166.206), attending must attempt to transfer	• If du ot pr

Ethical Considerations

- times of crisis, time and cognitive pace constraints on patient's esignated "attending" physician
- ime, personnel, and resource onstraints may hinder patient bility to give "directions"
- Diagnosis of COVID-19 by itself nay not meet criteria for imminent eath
- Due to hospital visitor restrictions to limit spread of COVID-19, possibly may be infeasible for additional witness to be present inperson
- Risk of additional exposure for witness to COVID-19 and use of PPE
- Use of telemedicine to satisfy this requirement may infringe on patient's right to privacy
- If decision not in line with previously expressed patient wishes, may infringe on patient autonomy and dignity
- In case of scarcity of resources, may prevent other patients with COVID-19 from receiving necessary life-saving interventions

level of care required for patient uring crisis times not available in ther hospitals, physician unable to reserve professional integrity

- TADA 166.E during times of crisis

- planning

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Main Takeaways

Constraints on scarce hospital resources, medical professional time and cognitive space, and institution of public safety measures due to COVID-19 reveal potential ethical challenges in implementing

Question: Do practical and ethical considerations during crisis standards of care justify exceptions to TADA 166.E?

Importance of advance care planning as a part of routine care • Increased challenge for patients with COVID-19 to have quality goals-of-care conversations: lack of meaningful, in-person discussions with family and friends once hospitalized Opportunity to institute policy to emphasize advance care

Acknowledgements

References

Policy Options for Protecting Homeless Populations during the COVID-19 pandemic

Jeffrey Wang- Baylor College of Medicine, Houston, TX

Background

- People experiencing homelessness are at high risk for disease spread and poor outcomes
 - Can't practice social distancing on streets or crowded shelters
 - Lack access to handwashing facilities
 - Advanced age and high comorbidity burden
- Current policies (e.g. stay-at-home orders) do too little to protect health of this population
- Large outbreaks found in shelters among largely asymptomatic persons
- Federal funding is available through CARES act (\$4 billion for homeless assistance) and FEMA
- What's at stake: health of our most vulnerable members and general public as a whole

Methods

Literature review and policy analysis

Stakeholders

- <u>People experiencing Homelessness</u>
 - Vulnerable to disease and loss of services
- <u>Government policymakers</u> (Dept of Housing) and Urban Development, State, Local)
 - Approve, fund, enforce policy
- <u>Shelters and Homeless service providers</u>
 - Strained by loss of volunteers/staff; reduced capacity from social distancing
- Hospitals and medical providers
 - Cannot discharge symptomatic patients who are unable to self-isolate
- <u>Housing industry</u>
 - Hotels/motels largely empty; may have liability concerns
- <u>General public</u>
 - Pay for policy through taxes; benefit from slowing spread of disease



Goals

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> Table (1): \$2.8 (2): \$35 million/90 days for 1.977 rooms: Canales K. San Francisco may spend \$105 million to house homeless in hotels - Business Insider, Business Insider, Published April 10, 2020 (3): \$2000/month for ~20 stations: Yelimeli S, Martin K. City sets up hand-washing stations to help homeless, others avoid coronavirus. Berkelevside. Published March 13, 2020. (4) Culhane D, Treglia D, Steif K, Kuhn R, Byrne T. Estimated Emergency and Observational/Quarantine Capacity Need for the US Homeless Population Related to COVID-19 Exposure by County; Projected Hospitalizations, Intensive Care Units and Mortality. Published online March 27, 2020

Goals and Measures of Success

Short-term

- Reduce modifiable risk factors for
- COVID-19 spread
- Preserve access to critical needs (food shelter)
- Sustainable with adequate funding Medium term
- Reduce preventable hospitalizations and death
- Fair distribution of resources
- Long term
- Process for resolution once pandemic
- subsides
- Readiness for future crises

Figure 1 Persons and Shelter Staff



Updated May 14, 2020 Source: Author's review of published reports and news articles • Created with Datawrapper

Possible Policy Solutions

	Impact Category	Policies					
		No change	Congregate housing (convention centers)	Non-congregate housing (motels/hotels)	Handwash stations and street outreach		
iveness: ce risk of	Social distancing and isolation of infected	Minimal	Low; hard to achieve with high numbers	High	Low-Moderate		
d	Hygiene access	Minimal	Moderate; shared bathrooms	High	Moderate; public facilities		
	Fraction of homeless population reached	Minimal	High; 100s-1000s capacity per center	Moderate- including those most at risk	Moderate- focused on areas with high density unsheltered		
omic ency: nize t/cost	Direct cost to government	None – but indirect costs through healthcare/ policing	Moderate- \$62/bed/day ¹	High-\$200/room/day (including food, staff, security) ² -75% cost-share through FEMA	Low -\$100/month per handwash station ³		
	Reliance on healthcare system (e.g. hospital stays for isolation)	High, >21,000 homeless hospitalizations ⁴	Moderate	Low	Moderate		
/	Benefit to at-risk population	Minimal	Somewhat high	High (older and with comorbidities)	Somewhat high (unsheltered)		
cality	Challenges to Implement	N/A	Moderate- centralized location	High- secure rooms, staffing, supplies for multiple locations	Low- but need to clean/resupply		
cal bility	Likelihood of Successful Adoption	N/A- in place	Moderate	Moderate	High		
1: Policy Ou million/month per 1,5	Itcomes Matrix 00 capacity: Avitabile R. Convention Center Shel	ter Project Now Targeting Homeless Still On S [.]	treets. NBC 7 San Diego.				

Publicly Reported Positive COVID-19 Tests among Homeless

- Provide non-congregate housing for homeless individuals at hotels/motels
 - years old and those with medical comorbidities separate complexes
- a. Prioritize those most at risk: homeless over 65 **b.** Isolate symptomatic or COVID-positive persons in
- Expand testing for homeless people and shelter staff
- a. Detect and prevent large outbreaks, isolate asymptomatic carriers, assess rate of spread
- Existing shelters must adhere to CDC guidelines for 3. social distancing, cleaning, and providing masks and hygiene
- Reach unsheltered populations with handwash 4. stations and outreach teams
- Develop plans for long-term housing solutions for 5. after pandemic subsides

- Approval through State executive order and City **Ordinances**, authorized under Texas Disaster Act Secure federal funding through FEMA and HUD grants Educate homeless population, shelters and homeless service providers, medical providers, law enforcement,
- and general public about policy
 - **Referrals** through shelters and homeless service providers, law enforcement, telephone hotline
- City government coordinates **staffing** for food, security, social work, nursing and provides hygiene supplies and masks
- Case workers help with transition to long-term housing **Collect and monitor data** on testing, disease cases, resource use-pressing need for research on policy outcomes
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Recommendations

Approval, Implementation, and Evaluation

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Background

1990s: completed opioid prescriptions increased Rates of infectious diseases associated with IV opioid abuse increase

1990s-present: Bills creating SSPs in Texas are introduced to legislature

2007: Texas Legislature approves a needle exchange program in Bexar County, which is terminated shortly after due to district attorney's adherence to drug paraphernalia laws

2012: the CDC put forth the Program Collaboration and Service Integration model, which integrates the medical and social services needed by IV opioid users.

2018: Congress passed SUPPORT, a law that expands healthcare programs' ability to combat opioid use-related infections

2019: Bexar County's new DA permits existence of SSP allowing for funding and planning to begin

Key Facts

- Nearly 80 percent of heroin users reported using prescription opioids prior to heroin
- Injection opioid use was linked to 13% of new HIV diagnoses in the US in 2016
- Over 2,500 new HIV infections occur each year among people who inject drugs
- The CDC states that syringe services can increase voluntary admission into rehabilitation programs, lead to a 70% decrease in Hep C transmission, and prevent needlestick incidents in police officers Lifetime cost of treating HIV is \$450,000 per person and US spends \$15 billion annually in chronic Hep C care. \$700 million dollars is spent annually on hospitalizations substance-use-related infections

Reducing Transmissible Infections in IV Opioid Users: A Policy Recommendation for Harris County Rishabh Kothari, Anveet Janwadkar, Yuangao Liu, Elliot Baerman, Sean Liu, and Richa Lavingia

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Policy Considerations and Recommendations SSP with Education & Treatment Services Reduce transmission and increase enrollment into treatment. Effective SSPs decrease HIV and HCV infections and serve as an access point to addiction treatment. New members of SSPs are 5x more likely to enter treatment and 3x more likely to stop drug use. Target urban areas with high rates of injected drug use Equity 60% of Hep C infections in Texas are due to IDU Over 500,000 Texans are infected with HCV. New HCV infections rising most rapidly in young adults. Depends on Harris County DA position and next legislative session. Will Efficiency likely have to see results in Bexar County. 299 US programs operating as of 2017. **Practicality** Methods well-established for operating safe program. ACLU estimates SSP cost \$20 per user. Financial Bexar County approved \$80k for 2019-2020 Feasibility Seek funding from Harris County or possibly Medicaid Waiver Illegal in Texas. Legality Must gain approval of Harris County District Attorney and/or exemption through Texas legislature. Low-moderate. Political Supported by AMA and TMA. Acceptability Has received bipartisan support when proposed in Texas State Legislature.



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Conclusion

Addressing transmission of infectious diseases due to IV opioid abuse requires a multifactorial approach, which may include needle exchange programs that also offer education, counseling, risk-reducing resources, and referral to prevention and treatment services. By providing these services in Harris County, the transmission of infectious diseases can be curbed and healthcare-associated costs can be lowered in the long-term. Outcomes such as number of participants in the program, cost-per-participant analysis, cost-saving analysis at the county level, and incidence of communicable disease in Harris County should be monitored longitudinally.

Future Steps

Facilitate conversations among stakeholders

Draft formal policy proposal

Facilitate coordination of players within Harris Health to implement solution

Measure outcomes at predetermined time points



Social Resources at Emergency Department Discharges: Evaluation of Patients Request and Utilization

Objective

- To categorize the medical and social resources requested by ED patients at Ben Taub Hospital.
- To evaluate patient utilization of resources following ED visit.

Background

- Emergency Department (ED) visits in the United States have outpaced the rate expected from population growth.¹
- Few studies examine ED discharge interventions to improve health outcomes and decrease unnecessary subsequent ED visits, particularly in <u>underserved</u>, immigrant, and non-English speaking populations.²⁻³

Methods

Intervention

The Patient Discharge Initiative (PDI) is a volunteer organization that provides educational interventions to <u>discharged ED patients</u> through counseling, follow-up telephone calls, and connection to social resources including: applications for Gold Card, SNAP, and CHIP; transportation resources; financial assistance resources; housing resources; low-cost dental resources, and more. All patients who were part of the PDI project received a follow up phone call from a student volunteer one week after their initial encounter and then again after one month.

Setting

The PDI is based at <u>Ben Taub Hospital, Houston, TX</u> with approximately 89,000 patient visits annually. PDI volunteers approached patients prior to discharge. Data Analysis

Quantitative data was analyzed using descriptive statistics. A total of 442 patients received resources and phone call follow ups from January 2018 to April 2019. This data is part of a preliminary analysis of a nonblinded randomized control trial.

Aanchal Thadani¹; Ashley Huang¹; Victoria Van Benschoten¹; Zining Chen¹; Rohit Gupta¹; Daniel Wang²; Alison J. Haddock, MD¹; Michael S. Jaung, MD MSc¹ ¹ Baylor College of Medicine, Houston, TX; ² Rice University, Houston, TX





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Creative Solutions for Vulnerable Mothers: Increasing One-Year Coverage Rates for Postpartum Women in Texas

Co-Authors: Andrea Grimbergen, Mary Robichaux, Felixnando Rubio, Mary Taylor Winsten, Sowmya Yennam

The Problem

The US has the worst maternal mortality rate (MMR) of similarly wealthy countries

- 2018 MMR was **17.4 deaths per 100,000 live births** per the Centers for Disease Control and Prevention (CDC)
- However, this rate only includes deaths up to 42 days postpartum
- Pregnancy-related deaths still occur up to 365 days postpartum

Texas has the 9th highest MMR nationally when using 365-day postpartum data from the CDC

- National MMR = 29.6 deaths per 100,000 live births
- Texas MMR = 39.2 deaths per 100,000 live births



Lapses in insurance coverage are a major issue in the perinatal period

One in 3 women experiences a disruption in coverage before, during, or after pregnancy and 60% of affected women experience a period of no insurance

Too few Texas women are covered in the first year postpartum

- 53% of births are covered by Texas Medicaid
- Medicaid for Pregnant Women ends 60 days after delivery
- Texas mothers are auto-enrolled into the Healthy Texas Women (HTW) program at 61 days postpartum
- However, HTW only covers limited women's health and family planning services and is part of a temporary 1115 waiver demonstration project

Most maternal deaths occur after coverage has lapsed in Texas

- 56.3% of deaths occur **61+ days postpartum**
- 38% were pregnancy-related; 56% were pregnancy-associated
- 60% of pregnancy-related deaths had a "strong" or "good" chance of being prevented through better care or management in the perinatal period per the 2018 Texas Maternal Mortality and Morbidity Task Force Report

0-7 days post	tpartum 43-60 d	days postpartum	
4.2% 16.8%	16.8%	6.0%	56.3%
During pregnancy	8-42 days postpart	tum	61-365 days postpartum

There is a fundamental mismatch between the window of greatest maternal mortality risk and insurance coverage in Texas.

Texas Legislatu • ACOG • AAP Hospitals THHS CMS Taxpayers

HB744 (TX) - Proposed to extend Medicaid coverage to twelve months postpartum It **passed in the TX House** but did not progress within the TX Senate

Stakeholders

HR4996 (US) - Helping Medicaid Offer Maternity Services (MOMS) Act of 2019 Introduced in the US House with bipartisan support

Expand Healthy Texas Women (HTW)

- Expand services covered to include screening and treatment for the common causes of maternal mortality after 60 days postpartum • Ensure funding through renewal of
- 1115 waiver or allocation of dedicated state funds

Expand Medicaid for Pregnant Women (MPW)

- state funds

Measures of Success

Effectiveness	Increase in number of women cover birth with expanded service offering Reduction in mortality and morbidi
Equity	Equalization of morbidity and mortal backgrounds and socioeconomic cla
Efficiency	By June 1st, 2021
Practicality/ Sustainability	Ensure appropriate eligibility require access for qualifying women Track number of late or unfulfilled r
Financial Feasibility	Funding allocated by appropriate para Measure financial impact on taxes, budgeted allocation of spending
Political Feasibility	Achieve bipartisan buy-in
Legality	Legal within current Texas requirem

Short-Term

- Expand services offered to this population
- Increase coverage across all demographics

Long-Term

- Increase **overall health** of women of childbearing age
- Improve **pediatric and family health** outcomes

Proposed Solutions

Lengthen the eligibility period for MPW to a year following delivery • Expand services covered to include screening for and treatment of common maternal mortality causes after 60 days postpartum

• *Ensure funding* through new 1115 waiver or allocation of dedicated

Short-Term Demonstration Expand County Indigent Care ("Safety Net") Project *Evaluate financial impact* thorough

- Entrust coverage expansion efforts to county-level governments or providers
- *Examples include* expanding existing county care to smaller adjacent counties or building new safety net infrastructure

Optimal Solution

Expand MPV	N +
Effectiveness	Capt unde
Equity	Supp exist
Practicality/Sustainability	Appl No c enro Prov alrea
Financial Feasibility	Less No b prog Pote

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Goals

• Increase the **number of women** covered in the first year postpartum

Reduce morbidity and mortality for **all causes** in first year postpartum

- a grant-funded demonstration project
- Provide essential healthcare services and targeted maternal mortality screenings to MPW patients after coverage lapse
- **Partner** with private foundations or insurance companies

Demonstration Project

- tures larger number of uninsured and erinsured women in need of care
- ports all counties equally regardless of size and ting resources
- lication process already in place disruption in coverage for women already olled in MPW
- vider network and reimbursement protocols ady established
- investment required to build infrastructure ourden on overleveraged local counties to fund gram
- ential for cost savings by decreasing ER visits and ous complications or medical events

Vaccine Exemption Rates in Texas: A Health Policy Analysis

Baylor College of Medicine, Houston, TX *: Indicates Equal Contribution

Background

- Too few Texas school children are vaccinated against MMR
- Current state vaccine policies allow for medical, religious and philosophical exemptions
- Vaccine exemptions vary per state and within states; Currently, California, Mississippi, and West Virginia, New York, Maine, and Washington (MMR) only allow medical exemptions.
- Measles (eliminated in 2000 from the US) has seen an increase in cases since¹
- The number of children getting conscientious vaccine exemptions has increased every year since 2007² Figure 1. Percent of Students in Kindergarten through 12th Grade with a Conscientious Exemption on File for at Least One Vaccine.



Stakeholders

- Healthcare providers
- Support the end of all non-medical exemptions
- Policy makers (i.e. state government)
 - Texas government allows for both religious and personal belief exemptions
- Public schools
 - Alarmingly high rates of exemptions exist among TX public schools; therefore, support idea of eliminating non-medical exemptions due to public health risk in schools
- Texas general public
 - Poll from University of Texas found a vast majority (78%) of the general public in Texas supports mandatory vaccination
- Texans for Vaccine Choice
 - Major opposition to policy; organize to end legislation over what they view as taking away a right of choice
 - Major tools include emotions, fear, and patriotism
- Religious and faith-based organizations
 - Exemptions have stemmed from vaccines violating the tenets of these organizations
 - Also can reach rural populations to vaccinate³

Alex Alexander*, Brittan Armstrong*, Rohit Gupta*, Fernando Padilla*, Savannah Savadel*, Jeffrey Wang*

Goals and Measures of Success



Possible Policy Solutions

	Goal	No Change	Removing the option of <u>non-</u> <u>religious</u> <u>conscientious</u> <u>exemption</u> to vaccines from Texas law	Removing the option of <u>all</u> <u>conscientious</u> <u>exemption</u> to vaccines from Texas law	Statewide vaccine campaign with education & targeted ads	Requiring counseling & education prior to granting exemption
Financial Feasibility	As inexpensive as possible - funding for lobbying from independent advocacy organization	No change in cost	Lobbying can be expensive, political campaigning, fundraising requires upfront costs	Lobbying can be expensive, likely the most expensive of the options upfront- requires most political action	Requires money for commercials, online ads, education materials, flyers, and cost is ongoing	Likely requires new positions in local governments, new infrastructure put in place, education materials
Legality	Accepted as Texas law, accepted by medical governing bodies, enforceable	Already a set law	Has to be drafted into an accepted law - precedent exists in other states	Has to be drafted into an accepted law - precedent exists in other states	Not many legal implications - need a overseeing body who runs the campaign	Who is authorized for giving counseling? Who regulates the process?
Politically Acceptable	Moderate or opinions can be influenced /changed	Moderate	Moderate - less opposition because religious groups are unaffected	Low - will require opinions to change, particularly those of religious groups	High	Moderate
Practicality/ Sustainability	Maximize the short and long term practicalities - long term taking precedence over short term	No issues	Requires lobbying and policy change at the state level, may take years to implement, once it is done it is "permanent"	Requires lobbying and policy change at the state level, many stakeholders involved, also "permanent"	Easy to implement, can model existing education campaigns, must be continually kept up & updated	Easy to implement if existing infrastructure is used, likely accepted by most stakeholders
Predicted Efficacy	NME Rate <0.6% <5% of counties with MMR rate <95%	Rates are currently ~2%	Likely to have a moderate reduction in exemptions (but compensatory increase in other exemptions - like Vermont)	Likely to have the largest overall reduction in non- medical exemptions (California dropped from 2.37% to 0.56%)	Likely to have the lowest impact on reducing exemptions	Likely to have a moderate reduction in exemptions (Washington rates decreased by 40%)
Can we meet our goal with this method?	Yes	No	Maybe	Yes	Probably not	Maybe

Goal
<0.6% ⁵
<5%



Figure 2. (A) Philosophical belief (teal), religious (green), and medical (blue) exemption rates in Vermont. (B) Combined philosophical and religious (teal) and medical (blue) exemption rates in California.

Graph adapted from Garnier et al. 2020

Recommendations and Possible Objections

We recommend eliminating conscientious exemptions, including religious exemption, from immunizations required for school entry.

- Evidenced based for meeting stated goals based on outcomes from other states
- The infrastructure for implementation and measuring outcomes is already in place

Possible Objections

- Texas average vaccination rates are over 95%, satisfying accepted requirements for "herd immunity"
- This proposal is unconstitutional, and the government has no right to mandate vaccines
- The claim/belief that vaccines are unsafe

Approval, Implementation, and **Evaluation**

- Major advocacy efforts from stakeholders needed for passage through legislature
- Enforced by Texas Department of State Health Services and school districts
- Educate **all parents** with school-age children • Information from schools, pediatricians, TV/online ads Continue access to low-cost/free vaccines through TX Vaccines for Children, community outreach programs
- 6-month grace period and written warning from schools Conditional enrollment for children who have started series with Doctor's note
- Ensure compliance while minimizing disruption to school Measures of success
 - **Effectiveness:** Are vaccination gains offset by lower school enrollment or rise in medical exemptions?
 - **Equity**: Which communities see most/least change?
 - **Sustainability**: Need adequate buy-in and enforcement for sustaining over time
 - Legal: Challenges expected from vocal groups, but legal precedent has been established

Vaccination Authority Laws. J Law Med Ethics. 2017 emption-rates-school-district-look-up

Alignment with the majority of stakeholder goals

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Background

- US Centers for Disease Control & Prevention (CDC) states that "HPV is so common that nearly all sexually active men and women get the virus at some point in their lives" if unvaccinated.
- 79 million Americans are infected currently, most of whom are adolescents and young adults, and **14 million are infected annually.**
- Of 200 strains of HPV, over 40 are transmitted through different forms of intimate mucosal contact, and at least 12 cause cancer.
- HPV costs Texans **\$170 million a year** in healthcare expenses to treat cancers and other medical conditions associated with the virus.
- In the next few years, oropharyngeal cancer rates are predicted to continue increasing, and even more Texas families will be affected by the cancer-causing, preventable Human Papillomavirus (HPV).
- Concrete, feasible changes to policy that would increase awareness and access to vaccination could increase the amount of Texans who are protected from HPV-related cancers.

HPV Vaccine Dose Schedules by Age						ge	
Age Range		# of Doses					
9-14		2 (immunocompromised need 3)					
15-26		3					0, 1-2,
2	7-45	3 (not routil case basis)	nely recomn	nended by C	DC, case-by	/-	0, 1-2,
		Epic	demi	ology	y of F	-IF	DV
	Cancer	Annual US Cases	Annual US Deaths	Annual TX Cases	Annual TX Deaths	% (Re to	Cases lated HPV
	Anal	Total: 8,590 Male: 2,690 Female: 5,900	Total: 1,350	Total: 344	NA	>9	0%
	Cervical	Female: 13,800	Female: 4,290	Female: 1,247	Female: 407	>9	0%
	Orophar yngeal	Total: 19,000 Male: 15,500 Female: 3,500	Total: 7,890	Total: NA	Total: NA	>7	0%
	Penile	Male: 2,200	Male: 410	Male: 128	NA	>60)%
	Vaginal	Female: 6,230	Female: 1,450	Female: 58	NA	759	%
	Vulvar	Female: 6,120	Female: 1,200	Female: 217	NA	709	%

A Shot Against Cancer The State of HPV Infection and Vaccination in Texas

Amanda Boornazian^{*}, Rajadhar Reddy^{*}, Pauline Berens^{*}, Emily Burns^{*} *Baylor College of Medicine

dule (months)

Vaccine Prevents YES YES YES YES YES YES

Current State of Texas

How Texas Compares

- Texas' adolescent HPV vaccination rate was similar to the average US rate in 2013, but Texas has since failed to keep up with increased rates nationwide.
- $\frac{1}{3}$ had received the full series.
- Only 4 states (MS, SC, UT, WY) have HPV vaccination rates lower than Texas. • Other non-HPV adolescent vaccination rates are much higher in Texas, suggesting that
- The FDA approved the HPV vaccine in 2006, but legislation to increase its use in Texas has mostly stagnated since 2007, when Gov Rick Perry failed to mandate it.

Texas State Legislative Review

-
Description
Prohibited any public elementar vaccine, but required schools to Overrode EO 4, which tried to m public schools, with public cover
Required DSHS to develop and Esp. Must include that sexual contransmission possible, and scre
Allowed pharmacists to be first- vaccines, including HPV vaccine previous age of 14+). No establ No requirement to determine that

Other State & National Policies

Initiatives successfully implemented in other states and countries can serve as a model for Texas.

- **North Carolina:** In 2009-2010, schools and the health department in Guilford County, NC teamed up to administer the HPV vaccine to girls aged 10-17. This initiative was successful: the completion of the HPV vaccine series was 80%.
- **Idaho:** Idaho allows pharmacists to administer the HPV vaccine to females 9-years old and older without a prescription. Idaho also has a lower incidence rate of cervical cancer than the entire US (5.9 per 100,000 compared to 7.4 per 100,000). The vaccination rates for males and females have increased after the implementation of this bill
- **Australia**: Australia expects to eliminate cervical cancer within the next two decades. They introduced a national vaccination program in 2007 that provided the vaccination series to teenage girls at no cost. Teenage boys were included in the program starting in 2013. As of 2016, about 80% of the population aged 15 had received all three doses which led to a 77% reduction in the incidence of HPV strains that cause cancer. Due to increased vaccination, Australia is able to reduce screening and save money on both screening procedures and cancer and genital wart treatment. They are expected to eliminate cervical cancer as a public health problem by 2028.

In contrast, we can also learn from the consequences of decreased vaccination rates in countries like Japan.

• Japan: In 2013, Japan had a vaccination rate of 70%; today, less than 1% of young adults are vaccinated. This sharp decline is attributed to the government's suspension of recommendations for the vaccine after an unsubstantiated study was published regarding vaccine side effects. Public health analyses estimate significant fallout from this change in policy, predicting 24,600–27,300 preventable cervical cancer cases attributable to resulting missed vaccination and 700-800 cervical cancer-related deaths for each year that these trends continue.

• In 2016, <50% of Texans aged 13-17 had received a dose of the HPV vaccine and only

our low HPV rate is not entirely explained by general vaccine hesitancy.

ry or secondary school mandate for the HPV provide medically accurate info to parents. nandate for all females entering 6th grade in rage until age 21 and parental right to refuse.

distribute medically accurate info in Eng & ontact not required for transmission, vertical eenings required after vaccine.

line providers of all clinically indicated e, to any patients age 7+ (lowered from lished patient-physician relationship required. at a physician is unavailable or inaccessible.

<u>"Recommending" (Not "Requiring") the HPV Vaccine:</u> Currently, DSHS is required by state law to provide info on HPV vaccine. DSHS informs all public school parents on required booster Tdap and MCV vaccines for all children aged 11 (same age for HPV vaccine). Info sheets on Tdap/MCV and HPV are separate.

Partnering with Physicians & Pharmacists:

Currently, SB 2042 language allows HPV vaccine provision outside CDC guidelines, and expands pharmacist scope at expense of physicians.

dose of vaccine).

Collaborating with Campuses and Communities:

fund for cancer programs.

- to host pop-up HPV vaccine clinics.
- school districts to target high-risk hot spots.

Improving ImmTrac2 Data Collection (Texas Immunization Registry): Currently, opt-in system that requires parental consent as minor and re-consent when patient turns 18. Patients may have moved, switched providers, or be receiving HPV vaccine for the first time after turning 18.

We would like to thank our faculty advisors, Claire Bocchini, MD (of Baylor College of Medicine, Texas Children's Hospital Center for Child Health Policy & Advocacy, and Doctors for Change), Lois Ramondetta, MD (of the University of Texas MD Anderson Cancer Center), and Rekha Lakshmanan, MHA (of the Immunization Partnership) for their content expertise and support of our project. We also credit Dr. Bocchini for her Clinic to Capitol elective course at Baylor, during which we wrote a policy brief that served as the foundation for this report.

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Policy Recommendations

DSHS should combine sheets so that HPV vaccine is listed as "recommended" alongside "required" Tdap and MCV. Parents should be encouraged to take their children for all 3 vaccines.

SB 2042 should be modified to align with CDC guidelines; require established patient-physician relationship (with required follow-up after first

Currently, Cancer Prevention & Research Institute of Texas (CPRIT) is a \$6 billion state

Grant programs should be created for middle-school-based health centers

County or city health departments should collaborate to create plans with

Local healthcare institutions should help implement these programs.

All patients aged 18 should be offered re-consent form during any visit. Providers should be reimbursed for offering re-consent form.

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Kate T Simms, Jie-Bin Lew, Megan A Smith, Julia ML Brotherton, Marion Saville, Ian H Frazer, and Karen Canfell.



Clarifying the Roles of Consent and Assent in Surgical Intervention on Atypical Genitalia in Intersex Minors Kristi Fu BA and Christi Guerrini JD, MPH

Background

In recent years, Nevada, Texas, Indiana, and California have each attempted but failed to pass legislation that would delay non-urgent surgical interventions on atypical genitalia of minors. California's efforts are the most mature and include the state legislature's passage of a concurrent resolution and two proposed bills.

Notably, these states have diverged with respect to the role of minors in the decision-making process. Using California's proposed policy as a case study, we describe the significant confusion that has surrounded policy efforts intended to ensure the involvement of intersex minors in these surgical decisions and identify additional considerations for policy makers.

The Role of Minors in Decision-makin

Informed consent:

- Permission to proceed with the proposed care
- Must be obtained as a matter of law
- Requires decision-making capacity, which is legally presumed at the age of 18
- In pediatric care, parents provide informed consent. There are few legal exceptions where minors can consent (e.g. STI treatment)

Assent:

- Expression of willingness to accept the proposed ca
- Sought as an ethical matter
- No consensus on required elements of assent
- Depending on the formulation, can be obtained from school age child (developmentally appropriate understanding) or only from an adolescent (fulfilling elements of adult informed consent)¹



	California's proposed policy: a case study					
TABLE 2. Deci Intersex Surgi	sion-making cal Decisions	Standards Endorsed in the Californian Legislative	History of Peo	diatric		
Californian legislation	Standard endorsed	Language	Reference	Status		
Resolution	Assent	"That the Legislature calls upon stakeholders in the health professions to foster the well-being of children born with variations of sex characteristics, and the adults they will become, through the enactment of policies and procedures thatdefers medical or surgical intervention, as warranted, until the child is able to participate" ²	Senate Concurrent Resolution No. 110 [2018]	Passed		
Bill 1	Consent	"Absent a medical necessity, a physician and surgeon shall not perform any treatment or intervention on the sex characteristics of an intersex minor without the informed consent of the intersex minor" ³	Senate Bill No. 201 [2019]	No vote; Deferred to 2020 legislative session		
Bill 2	Assent	"A treatment or intervention on the sex characteristics of a person born with variations in their physical characteristics who is under six years of age shall not be performed unless the treatment or intervention is medically necessaryuntil the individual can participate in the decision" ³	Senate Bill No. 201 [2020]	Failed passage on Jan 2020. Reconsideration granted.		
	TABLE 2. Deci Intersex Surgio Californian legislation Resolution Bill 1 Bill 2	CalifTABLE 2. Decision-making Intersex Surgical DecisionsCalifornian legislation ResolutionStandard endorsed AssentBill 1ConsentBill 2Assent	California's proposed policy: a case sTABLE 2. Decision-making Standards Endorsed in the Californian Legislative Intersex Surgical DecisionsCalifornian legislation ResolutionStandard endorsedLanguageResolutionAssent"That the Legislature calls upon stakeholders in the health professions to foster the well-being of children born with variations of sex characteristics, and the adults they will become, through the enactment of policies and procedures thatdefers medical or surgical intervention, as warranted, until the child is able to participate"2Bill 1Consent"Absent a medical necessity, a physician and surgeon shall not perform any treatment or intersex minor"3Bill 2Assent"A treatment or intervention on the sex characteristics of a person born with variations in their physical characteristics who is under six years of age shall not be performed unless the treatment or intervention is medically necessaryuntil the individual can participate in the decision"3	California's proposed policy: a case studyTABLE 2. Decision-making Standards Endorsed in the Californian Legislative History of PecIntersex Surgical DecisionsCalifornian endorsed endorsedLanguageReferenceCalifornian legislationStandard endorsedLanguageReferenceResolutionAssent"That the Legislature calls upon stakeholders in the health professions to foster the well-being of children born with variations of sex characteristics, and the adults they will become, through the enactment of policies and procedures thatdefers medical or surgical intervention, as warranted, until the child is able to participate"2Senate Bill No. 110 [2018]Bill 1Consent"Absent a medical necessity, a physician and surgeon shall not perform any treatment or intersex minor without the informed consent of the intersex minor without the informed consent of the intersex minor without the informed consent of the intersex of a person born with variations in their physical characteristics of a person born with variations in their physical characteristics who is under six years of age shall not be performed unless the treatment or intervention is medically necessaryuntil the individual can participate in the decision"3Senate Bill No. 201 [2020]		

Indiana HB 1461 [2017] (consent)

Texas SB 1432 [2017], HB 2462/SB 1383 [2019] (consent)

Given state activity on this issue (in the past and likely in the future – see NY^4), it is critical that policy decisions be based on understanding of the legal, ethical, and practical distinctions between consent and assent. If consent is endorsed, an age likely must be selected. But it is unclear what it should be. Traditionally, exceptions look at a cutoff age in adolescence, but is that too late for intersex individuals?

We think the better approach is to endorse assent because it provides flexibility. If assent is chosen as the default rule, there are still important questions that need to be addressed.

- *coercion*)?

These are questions that always attend assent circumstances in health policy but are particularly heightened in this context because the surgical intervention is permanent and there are social, cultural, psychosocial and identity issues involved that can have long-lasting impacts on the child's and family's overall well-being. Therefore, it is vital that key stakeholders heavily deliberate and answer these questions going forward.

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Conclusion

How should assent be defined in this context? What should the conversation between provider, parent, and child look like (ensuring that there is no How should disputes be resolved between two

parents? Between parent and child?

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The Problem: Adolescents and young adults disproportionate vape and use e-cigarett despite having more misconceptions regardir the health risks and harms said devices.

BACKGROUND

What is Vaping?

Electronic cigarettes are alternativ tobacco smoking that function by creating an aerosol containing propylene glycol, flavorings, nicoti and/or other substances, which is inhaled.

Policy Issues:

- Components, such as flavors ar disposables, are less regulated
- Easily accessible and readily available
- Cultural appeal of vaping, particularly in online media, is no addressed by current policies
- Variability in taxation and state regulations can lead to traffickin across state borders
- Enforcing bans on sales to mino problematic, particularly online

Stakeholders and their Values

- Vaping companies: profits, reputation
- Adolescent users: social acceptance
- Adult users: smoking cessatior
- **Parents:** child's health/safety
- **Insurance companies:** profits
- Health officials and physician health and wellness of their patie
- Local and federal government taxes, protecting public health Charts 1-4 demonstrate that a Feder
- 10% tax on e-cigarettes between 202 **2030 would:**
- Reduce e-cigarette sales by 340M+ units by price elasticity of demand Generate \$63M+ in revenue to fund
- 10,000+ social media influencer impressions

Vaping and Electronic Cigarettes in Adolescents: A Policy Recommendation Diana Bueso-Mendoza, Jonathan Go, Allen Hu, Tahir Malik, Anoosha Moturu, Kelly Payne, Raj Reddy Baylor College of Medicine Center for Medical Ethics and Health Policy

<u>POSSIBLE</u> SOLUTIONS	Anti-e-cigarette social media campaign	Regulate e- cigarette aesthetic design	Regulate e- cigarette advertising on TV and radio	Raise minimum legal age of sale of tobacco to 25	Increase taxes on e-cigarettes
Political Acceptabilit y	FDA's "Real Cost" campaign serves as national precedent in public sector; other privately and charitably funded campaigns have utilized social media and video streaming sites to capture youth audience	Aspects that directly facilitate youth consumption (such as accessories to hide vapes in bookbags) can be regulated, but regulating design may result in retaliation from lawful users and manufacturers	TV and radio ads for combustible cigs banned since 1969; e-cigs not included, but consistent historical precedent for combustibles may build public and political support to extend ban to e-cigs	US Congress and FDA just increased MLAS to 21 this year; many states increased to 21 in the last few years; MLAS of 21 already controversial and requires graded implementation	E-cigs not currently subject to excise taxes on combustibles; e-cig taxes can be increased to discourage usage, but kept below combustible taxes to ensure that combustibles continue to be seen as less preferable than e-cigs
Financial Feasibility	Request voluntary sponsorship by celebrities, social media sites, and e- cigarette manufacturers	Requires public funds and personnel for investigation, meticulous rulemaking, enforcement, and notification	Active monitoring of products not required for enforcement, simple blanket ban on TV and radio ads	Requires increased public funds for monitoring and enforcement, especially during graded implementation	Increased taxes provide additional revenue to compensate for any costs and use for other initiatives
Effectivenes S	Celebrity pressure discourages new uptake, but may not dissuade purchases by existing users	Aesthetic design may be a broad category with too many potential features to effectively regulate	Removes 2 entire sectors of advertising where e- cigs are advantaged compared to combustibles; both should be disadvantaged	Further reduces prevalence of tobacco use disorder, long-term use of e-cigs, use of devices for other substances, and transition from e-cigs to combustibles	Taxes on unhealthy products effectively reduce consumption; public funds can be used for tobacco cessation projects
Efficiency	Existing public health campaigns serve as template for messaging, social media posts easy to produce	Difficult to define features subject to regulation, requires debates with manufacturers and public comment on draft rules	Simple blanket ban would require relatively simple rulemaking without need for active monitoring	Current state laws raising MLAS to 21 implemented in stages over many years; raising to 25 would require even longer timeline	Blanket tax on all e-cig products is relatively easy to implement, no variations to consider in rulemaking
Equity	Widely promoted and adapted to various interest groups based on celebrities and platforms	Applies to all manufacturers' products, but aesthetic variation may result in inconsistent enforcement	TV and radio may target older populations; does not address internet and physical ads; internet ads likely strongly impact	Racial discrimination in enforcement and punishment for youth substance possession and consumption in minority	Impacts lawful adult users as well as recent youth users; may discourage current combustible smokers from switching to
An anti-e Projected US E-Ciga Price Elasticity of Dema 300	-cigarette so reve	ocial media nue from e 10% Tax, 2020-2030 (M)	-cigarette s	sales	
An anti-e An anti-e Projected US E-Cigar Price Elasticity of Dema 300 250 Unit 200 Sales (M) 100 50	-cigarette s reve	OCIAI MEDIA DUCIAI MEDIA 10% Tax, 2020-2030 (M)	Campaign -cigarette s	sales	UECLOY LAX 114 CAGR (%) 28.0 37.4 6.1
An anti-e Projected US E-Ciga Price Elasticity of Dema 300 250 Unit 200 Sales (M) 150 100 50 0 100 2020	- cigarette s reve rette Unit Sales with Federal nd: 5% per 10% Price Increase	OCIAI MEdia Due from e 10% Tax, 2020-2030 (M)	Lampaign cigarettes 15 15 2025 2026 2025 2026 2026 Sales R	That is fund ales	UECLDY LAX
An anti-e Projected US E-Ciga Price Elasticity of Dema 300 250 Unit 200 Sales (M) 150 100 50 0 100 50 0 100 2020	-cigarette s reve rette Unit Sales with Federal nd: 5% per 10% Price Increase	OCIAL MEDIA anue from e 10% Tax, 2020-2030 (M) 2023 2024 Rechargables E-Liquid	A campaign -cigarette s 15 2025 2026 ds Disposables Sales R	sales 2027 2028 202 eduction from Tax	Life Life Life Life Life Life Life Life
An anti-e	-cigarette site of the second seco	OCIAI MEGIA enue from e 10% Tax, 2020-2030 (M) 2023 2024 Rechargables E-Liquid 2030 (\$USD)	A campaignet of the comparent of the	2027 2028 202 2027 2028 202 eduction from Tax	







IMPLEMENTATION

Advertising Corporations

 Create advertising content and messaging **Social Media Influencers**

 Contract with influencers to create sponsored content

Government Systems (IRS, State Public Health Department, County Committees)

 Lobby for taxation increases and establishment of advertising fund

Education system

• State Public Health Dept notifies State Dept of Education about campaign

How we know the solution is implemented

- Advertisements appear on social media
- Monitor statistics on social media campaign views
- Monitor number of calls into quit lines
- Track tax revenue from RS reports

USAGE RATES

SALES RATES

Decrease in absolute use Decrease in relative use Shift in demographics

VOLUME OF PRODUCTS

Overall decrease in product supply

CONCLUSION

Increasing taxation on e-cigarettes could decrease usage by 340M+ units • \$63M+ generated in tax revenue could be used in an **anti-e-cigarette campaign** targeted at adolescent audiences via **Social** Media Influencers

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Decrease in revenue generated from companies Increase in revenue generated for advertising campaign

Ethical Oversight of Quality Improvement: A Side-by-Side Comparison of Recommendations in the Literature

Anoosha Moturu; Mary Majumder, PhD Baylor College of Medicine Center for Medical Ethics and Health Policy

INTRODUCTION

Human Subjects Research

- **Definition**: a systematic question to be applied to broader contexts and for which individually identifiable human data are being collected
- **Regulated by**: the Department of Health and Human Services' Federal Policy for the Protection of Human Subjects or "Common Rule"
- **Regulation**: 45 CFR 46.101-46.401
- **Oversight requirement**: Institutional Review Board (IRB) oversight
- Exceptions: expedited review, waive informed consent (IC)
- **Criteria**: risks minimized and reasonable to anticipated benefits, subjects selected equitably, informed consent, safety monitoring, privacy and confidentiality of data **Quality Improvement**
- **Definition**: systematic data-guided activities designed to bring about immediate improvements in health care delivery in particular settings
- **Regulated by**: variable
- **Regulation**: must comply with Health Insurance Portability and Accountability Act (HIPAA)
- **Oversight requirement**: variable
- **Criteria**: variable



METHODS

- Pubmed search for terms:
- Quality Improvement
- Oversight
- Ethical Oversight
- Cited > 5 times
- Was the abstract relevant?
- Development of key questions
- Review of identified articles
- Construction of table



A side-by-side comparison of leading quality improvement (QI) oversight recommendations shows variation in optimal oversight structure. This work provides a foundation for analysis of the implications for policy development and practice in QI oversight.

DISCUSSION TABLE

Comparison Factors

Ethical & Policy Considerations: Ethical and policy imperatives related to QI

QI Projects - Key Ethical Concerns Concerns all should be mindful of regardless of whether their QI project meets oversight criteria

QI Projects - Oversight – Criteria Features that make third-party oversight necessary

QI Projects - Oversight - Form(s): What should the oversight structure be?

Left to Right: Kass 2011, Bellin 2001, Gra

Articles (below	Points
	 Feasibility of standardization betw Scarce resource allocation Expectations of professionals and Avoiding hefty and unnecessary o Inappropriate randomization Measurement of benefits
5: f,	 Cost containment versus necessar In what scenarios to obtain inform Social/scientific value and validity Exposure to no more than minima Appropriate allocation of risk Privacy and confidentiality Supervision without bias Ethical imperative of patients and
$\bullet \bullet $	 Interventions with comparison group Prospective QI evaluations More than minimal risk or less car Conflict of interest of researchers Untested interventions
• •	 Where should oversight be housed boards, standing QI committees, of Who should multidisciplinary team advocates, QI experts, IRB member Should there be oversight and reg JCAHO, etc.
ady 2007, Finkels	tein 2015, Fiscella 2015, Lo 2003, E

Baylor Collegeof Medicine

of Conversation veen hospitals

patients oversight

y Ql ned consent of scientific data l risk

physicians to participate in QI roups

re than current standard of care or funding source

ed? IRB expedited process, QI-IRB, privacy or multidisciplinary committees? m include? *ethics consultants, patient*

gulation from regulatory bodies? OHRP,

Baily 2006, Lynn 2007, Layer 2003

Patient-Physician Communication at the time of Malignant Bowel Obstruction:

a qualitative analysis of discrepancies and strategies Claire Hoppenot, MD¹. Faye Hlubocky, PhD, MA². Julie Chor, MD, MPH³. S Diane Yamada, MD². Nita K Lee, MD, MPH². 1. Div of Gynecologic Oncology, Baylor Medicine, Houston, TX. 2. Div of Gynecologic Oncology, University of Chicago, IL 3. Dept of Ob/Gyn, University of Chicago, Chicago IL

Background

- Malignant bowel obstructions (MBO) occur in up to 40% with recurrent gynecologic cancers such as ovarian, uterine cervical cancer. They are cared for by gynecologic oncolog
- A MBO diagnosis marks an increase in symptoms and trans with a decrease in treatment options. It is associated with co communication involving realistic prognostication and coll with patients, family and team for decision-making and sup
- Median survival after MBO from recurrent gynecologic can months

Objectives

- 1) Determine what were the discrepancies in the approaches MBO diagnosis by patients and physicians
- 2) Highlight factors that strengthened the patient-doctor relation this time, and
- 3) Discuss communication strategies that helped physicians discussion of MBO with patients.

Methods

- Qualitative study of patients with MBO and gynecologic of a single metropolitan area
- Patient interviews

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MEDICINE

- Inclusion criteria: admitted for a MBO between 5/2016 at one of two affiliated institutions, recurrent/progressive cancer with previous treatment, 18-89 years of age, Engl able to participate in an interview
- Interviews were conducted a few days prior to discharge
- Semi-structured interviews were conducted in person (C recorded then transcribed verbatim. Interviews focused making, symptom control, and support during admission
- Physician interviews
 - Gynecologic Oncologists on a department list were cont standardized email. Response was considered to be conside
- Interviews were conducted in person or by phone (CH), transcribed verbatim for analysis. Interviews focused on to MBO in terms of treatment and counseling.
- Transcribed interviews were stored in QDAMiner and anal Framework analysis with themes predetermined from the l expanded based on transcript analysis. The code dictionary reviewed by 2 additional investigators familiar with the int (FH, NL). The total number of interviews was determined saturation.

	Table 2: Di	screpancies between patien	
of women		Patient quotes	
ne and ogists.	Treatment after MBO	I'm worried about how soon can treatments. (PT8)	
asition in care, complex laboration pport. ancer is 3-4	Information gaps	[My doctor] acts as though he do things that are painful. [] It's li want to say anything that's going woman. I am 81 years old. I can	
to a new	Approach	Don't give up. They say oh, well, Don't do that. Don't stop. Keep g good. And He will pull out all ou say no. (PT7)	
tionship at organize their	EOL readiness	I don't care about my hair. I don't live. (PT9) I just have to pray to God and tel away, but if I die, I die (PT12).	
		Analys	
oncologists in and 10/2018 e gynecologic dish-speaking, e CH) and on decision- n for MBO. tacted via a sent. recorded and the approach	 14 of 20 ag gynecologi Discrepand Protective patients an 1) Trust: "He see like, oh, way it is now 2) Understan sometimes tr where they're 3) Corrobora reaches out t more researc 4) Time, both "Sometimes, side for a wh Instead of jue 	 14 of 20 approached patients agreed to intergynecologic oncologists participated. Chara Discrepancies in approaches are shown in T Protective aspects of the patient-doctor relatpatients and physicians included: Trust: "He was very calm and you didn't sessee like, oh, we're going to cure you in his eyeway it is now. (PT5)" Understanding patient preferences: "I think sometimes trust the patient, and especially if twhere they're at in their sickness." (PT2) Corroboration of information: "It's been alwreaches out to other colleagues to get their inpmore research on [an ostomy] and what life is Time, both since diagnosis and to be allowet "Sometimes, I just need a few minutes of just side for a while. Not thinking about it. Then c Instead of just diving in." (PT10) 	
lyzed using a literature and y/themes were terview data by thematic	 Physicians d 1) Shared de 2) Providing 3) Directive 4) Use of dat 5) Emphasiz 	iscussed some of their communic cision-making options (patient autonomy appro recommendations (paternalistic a ta/ statistics	

wards their recommendation 6) Best case/worst case scenarios and benchmarking

ts and physicians in discussing MBO Physician quotes I get back on track with my For most of these patients the reality is that we have reached the end of the road in terms of active chemotherapy or tumor therapy. (MD10)

oesn't want to talk to me about certain ike he's close-mouthed, like, "I don't take anything. (PT12)

, this isn't going to work, that isn't. going. Because there is a way. God is ur needs for us. So don't give up. Don't

t care about any of that. I just want to

ll him, I don't want cancer, take it

SIS

rviews, and 15 of 27 approached acteristics are shown in Table 1. Table 2

tionship that were discussed by both

ee any panic in his eyes, you didn't es, so I trusted him to tell me the

t it's important for everybody to they've been sick for a while, to trust

ways really good that [my doctor] put." (PT10) "I want to do some like with that routine." (PT11)

ed to process the information: t taking it all and putting it on the come back to it and think about it.

cation strategies for decision-making

oach) approach)

(MD15)**Table 1: Physician char** (n=15)Gender Female Male Practice type Academic Academic/community Years since fellowship: <15

>15

life.

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You can't predict completely how things are going to go, so that's really hard because you want to counsel appropriately but sometimes things don't go that to make her feel bad." I'm a grown-up way. So I think the unknown for the patient is really hard, then it makes it, then it makes it hard for you too. (MD15)

> Their expectation of health outcomes were more black and white. This is my problem, it should be a solvable problem. And solving a problem should mean that I should get back to exactly where I was before, to how I was feeling a number of years ago. And that's where it's hard. (MD2)

The way I try to bring it up is that "we know this is not going to be a curative" situation. We do know there's a limited amount of time that you have, ... but it is important to think about what you want to do with the time that you have."

act	cteristics Patient characteristics (n=14)		
		Age (med, range)	61 (36-81)
	8 (53%)	Race	
	7 (47%)	White	8 (57%)
		Black	4(29%)
	10 (67%)	Hispanic	2 (14%)
	5 (33%)	Cancer type	
		Ovarian	10 (71%)
	10 (67%)	Cervical/uterine	4 (29%)
	5 (33%)		

Bottom Line

• MBO is a stressful experience impacting the patient-physician relationship. The relationship relies on communication to allow counseling and decision-making around treatment planning and end of

• Participating patients appreciated a direct recommendation but wanted more information. Physicians were divided between paternalistic and patient-autonomy approaches, and worried about recommendations given the amount of uncertainty in MBO diagnosis and prognosis. • Decision aids have been used in other situations to help facilitate discussions and balance providing information and providing a recommendation. Piloting a decision aid in these situations could leave patients feeling better informed and trigger both patients and physicians to address issues, such as going home, end of life, and nutrition, in an unbiased and personalized fashion.

"A cohort of pirate ships": biomedical citizen scientists' attitudes towards ethical oversight

Isabel Canfield¹, Whitney Bash-Brooks¹, Meredith Trejo¹, Christi J. Guerrini¹ ¹Baylor College of Medicine, Center for Medical Ethics and Health Policy

Introduction

- Policymakers paying increased attention to research conducted by biomedical citizen scientists outside of traditional institutions
- This research generally not subjected to ethical oversight (i.e., IRB review)
- Several new mechanisms of ethics review proposed, but little known about biomedical citizen scientists' attitudes towards such oversight

Methods

- Qualitative interviews with 35 biomedical citizen science stakeholders
- Probed interviewees about ethical priorities, general attitudes towards ethics oversight, and features of proposed mechanisms

Results

- Interviewees represented four continents (Fig. 1) and were primarily male (60%, n=21)
- Identified 13 ethical priorities related to their work (Fig. 2)
- Interviewees endorsed ethics oversight mechanisms that are voluntary, communitydriven, and offer advice
- Interviewees rejected mechanisms that are mandatory, hierarchical, and inflexible

Conclusions

- Peer-to-peer IRB and community ethics consultation models align with interviewees' preferences (Table 1)
- Traditional IRBs and crowdsourced review models do not align with interviewees' preferences (Table 1)

This study was funded by National Human Genome Research Institute grant K01-HG009355 (Guerrini, *PI).The authors thank the* interviewees for their participation.



CENTER FOR MEDICAL ETHICS & HEALTH POLICY



Biomedical citizen scientists are interested in ethics review and prefer mechanisms that are voluntary, community-driven, and offer advice rather than enforce rules. <u>Peer-to-peer IRBs</u> and <u>community ethics</u> consultation committees are most aligned with their ethical priorities and preferences.



able 1. interviewee	e attitudes	towards	proposed
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Proposed oversight model	Description	Pros	Cons
Traditional IRB	Formal group of experts evaluates human subjects research	 Expert, credible review 	 Formal, hierarchical, mandatory, hard to coordinate
Community ethics consultation committee	Community members review projects and provide opinions on ethics	 Range of opinions, similar to existing lab safety boards 	 Requires community resources, potential for hierarchy
Peer to peer IRB	Ethics experts make themselves available to provide opinions on projects	 Informal, voluntary, fosters mentorship 	 Distrust of ethicists, credibility, no enforceability
Crowdsourced review	"Citizen ethicists" provide opinions, often online	 Decentralized, diverse opinions 	 Online monitoring difficult, no enforceability
ndividual ethical reflection	Project members identify risks and benefits together	 Input from those directly involved 	 Different understandings of ethical principles
Code of ethics	Document of shared ethical principles	 Credibility, guides decision making 	 Not specific, no enforceability

Take a picture to email me for more information

ethics oversight models

74%, n=26

¹3% of interviewees declined to answer (n=1), 6% reported multiple origins (n=2)



Fig. 1. Origin of interviewees (n=35)¹



Fig. 2. Ethical priorities reported by interviewees

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Shared Decision Making Policy and Practice: 15 Month Results of a Multi-Site Study of Decision **Aid Implementation**

Meredith Trejo¹, Kristin M. Kostick¹, J.S. Blumenthal-Barby¹

¹Baylor College of Medicine, Center for Medical Ethics and Health Policy

Introduction

- Implementation of shared decision making (SDM) into routine clinical care is a **goal of policymakers**.
- Decision aids (DAs) are tools that facilitate SDM.
- Policymakers have successfully used "nudges," drawing on principles of behavioral economics, to positively change health behaviors at a population level.
- Little evidence exists regarding best practices for using **behavioral economics** to achieve policy goals at the clinical level.
- This project evaluated implementation of a DA for left ventricular assist device (LVAD) surgery at eight U.S. hospitals with a focus on using behavioral economics to facilitate increased SDM and DA use.

Methods

- Participating sites received tailored implementation plan and SDM training.
- LVAD coordinators completed a 10-item Implementation Fidelity Checklist for each patient.
- Primary outcome, reach to patients, calculated by dividing checklists received by the total number of patients receiving pre-LVAD education evaluation.
- Implementation plans continually tailored using innovative behavioral change model (MINDSPACE) during reinforcement and feedback sessions.

Results

- 607 patients received a DA over 15 months.
- **Reach** ranged from **29.3%-87.9%** of patients across sites with overall reach of 58.2%.
- Over one-third (37.5%) of sites achieved overall reach > 80%.
- Applying certain elements of the MINDSPACE behavior change framework, we improved **reach** by increasing clinical champion stakeholder engagement (Table 1).
- Conclusions
- DAs can be implemented into busy clinical care settings with sustained use by clinicians, patients, and caregivers.
- Behavioral economics can facilitate wider reach of tools for SDM and increase physicians' motivation to use these tools.



Strategies used by policymakers to motivate behavioral change, including behavioral economics, can be translated into use at the clinical level to promote increased use of tools for shared decision making





Take a picture to view the LVAD Decision Aid online Take a picture to read more about our use of behavioral economics

This work was supported through a Patient-Centered Outcomes Research Institute (PCORI) Program Award (DI-2017C2-7726). All statements in this report, including its findings and conclusions, are solely those of the authors and do not necessarily represent the views of PCORI, its Board of Governors or Methodology Committee.



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Table 1. Use of MINDSPACE Framework and Nudges to Foster Behavior Change

Behavior Change Strategy
 Increase engagement of physician champions to motivate LVAD coordinators to use decision aid
• Promote self-direction and ownership over how decision aid is used in practice.
 Share how colleagues at other sites successfully use decision aid
 Integrate decision aid use with existing clinical processes
 Keep decision aid at forefront of LVAD coordinators' attention
 Employ patient-centered terminology in interactions with coordinators and clinicians
 Celebrate examples of patient benefits and improved shared decision-making
 Remind physician champions of commitment to the project
Share site specific RE-AIM data and focus on successes

Identifying and **Ranking Key Barriers** to Data Sharing:

Stakeholder perspectives on a cancer gene variant commons

Matthew Blank, Isabel Canfield, Jill Robinson, Janis Geary, Juli Bollinger, Mary Majumder, Christi Guerrini, Robert Cook-Deegan, and Amy McGuire

Introduction

- Open science suggests that a commons consisting of the ever-increasing number of inherited cancer gene variants would advance biomedical research and the clinical significance of each variant.
- Propriety data practices and open science compete for control.
- Identifying barriers to creating a commons is critically needed in order to generate potential policy options.

Methods

Conducted modified policy Delphi with Advisory Committee (AC) members (n=23).



Results

- 16 barriers to developing a cancer gene variant commons were identified from round 1 of the Delphi.
- Broad consensus in defining a knowledge commons proved difficult across interviews.
- 4 top-ranking barriers were identified from the round 2 of the Delphi.



The most important challenges in the development of a cancer gene variant commons underscore concerns of data ownership, financial sustainability, privacy, and trust.



policy options and alternative structures.

Acknowledgments





& HEALTH POLICY



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GC-CPEH

The Gulf Coast Center for Precision Environmental Health (GC-CPEH) was selected as one of the NIEHS Environmental Health Sciences Core Centers (EHS-CC). A partnership among Baylor College of Medicine (BCM), UTHealth School of Public Health (UTH-SPH), and The University of Texas Medical Branch (UTMB), the Center serves the Texas Medical Center and Gulf Coast communities as the focal point and catalyst for impactful EHS research, bi-directional communication with local communities and stakeholders, and the engine driving translation of precision environmental health research advances to improve human health. The Goals for the GC-CPEH are to:

- integrate and foster impactful EHS research
- provide inter-institutional access to resources and state-of-the-art technologies
- support and encourage community engagement
- enable rapid coordination of research and response activities during and after environmental disasters

Center research foci include:

- Early Life Genetic and Epigenetic Environment (GE2) Interactions
- Disaster Research Response (DR2)
- Mechanisms and Interventions in Human Environmental Disease

Community Engagement Core (CEC)

- The CEC facilitates translation of science, increases health literacy, and builds relationships that lead to research responsive to our community needs
- We improve community awareness and understanding of environmental health issues, while assisting researchers to understand concerns of importance to the community and thus inform their scientific studies
- We utilize approaches based upon the tenets of Community-Based Participatory Research, including recognizing all stakeholders as equitable partners
- Stakeholders include: investigators, community members, patients, clinicians, advocacy groups, municipalities, institutional leaders, industry partners, policy makers, veterans, and other NIEHS EHS Centers



Gulf Coast Center for Precision Environmental Health, Baylor College of Medicine with support from the National Institute of Environmental Health Sciences under Award Number P30ES030285.

A Reason for Engaging: Ethics and the Environment The Gulf Coast Center for Precision Environmental Health Sharon A. Croisant, MS, PhD;^{1,2} Chantele Singleton, MS, MBA;^{1,2} John Prochaska, DrPH, MPH;^{1,2} Stephen H. Linder, PhD;^{1,3} Lea Steele, PhD;^{1,4} Lance Hallberg, PhD;^{1,2} Cornelis Elferink, PhD;^{1,2} Elaine Symanski, PhD, MSPH;^{1,4} Cheryl L. Walker, PhD^{1,4} ¹Gulf Coast Center for Precision Environmental Health, ²The University of Texas Medical Branch, ³UTHealth School of Public Health, ⁴Baylor College of Medicine

Public Health (PEPH) Key Principles Promote the worthiest science

advances and translational efforts

From Research to Action...

Research to action—including policy as a means of addressing inequities and reducing exposures—is the very basis of many past and current initiatives of the GC-CPEH Community Engagement Core.

Hurricane Harvey & Disaster Response



GC-CPEH DR2 research endeavors led to BCM receiving 5 NIEHS Time-Sensitive R21 grants for Hurricane-related research

PI	
Aagaard	Impact of Hu Microbiome
Anderson	Hurricane Ha Assessments
Bondy	Environment Hurricane Ha
Hamilton	Environment and after Hur African-Amer
Petrosino	Incorporating

Your Environment. Your Health.

Assessment of Indoor Air Quality and Health after Hurricane Harvey



Determine the short and longer-term health effects of living in a home flooded and subsequently remediated of mold and contamination from flood waters. • Currently, standards for remediation and

clean-up are typically suspended following disasters--need to inform policy

UTMB-Rapid Acquisition or Pre- and Post-Incident Disaster Data

Umbrella disaster IRB protocol to expedite research while maximizing human subjects' protection. UT-RAPIDD protocol modeled on NIEHS protocol, which |relies on a modular construction using customizable materials that can be readily | reviewed and approved (1-2 days) since methods are already preapproved.

Title

rricane Harvey on the Maternal and Infant and Birth Outcomes

rvey DR2: Individual Chemical Exposure (Oregon/BCM)

al Health Outcomes Research Among rvey Survivors

al Exposures, Health and Resilience before rricane Harvey in a Houston-Area Cohort of rican Adults with Poorly Controlled Asthma

g the Microbiome into DR2 Activities to th Outcomes

National Institute of Environmental Health Sciences



Houston



- Trust
- Equity, inclusion, power
- Tolerance and conflict
- Cultural humility



From Research to Policy...

Health of Houston Survey



Supports efforts of health agencies, service providers, and community organizations to have more accurate and up-to-date health information about Houston at community level.

GULF COAST CENTER

ENVIRONMENTAL

PRECISION

HEALTH

Regional Air Quality Assessment



BCM, UTHealth, and UTMB all contributed to regional air quality assessment planning in Houston in 2019-20. GC-CPEH also working on sharing of monitoring instrumentation and data with public health during emergent air quality events at the onset and during a disaster.



Metal Air Pollution **Partnership Solutions** (MAPPS)

Collaborative research-toaction project to study and address health risks associated with air emissions from metal recycling facilities in Houston.

Children's Health and Research on Metals (CHaRM)

Assessed metal exposure among children in Houston neighborhoods residing near heavy industrial activity and evaluated the impact of flooding on exposure.

Ethical Issues in Clinical and Environmental Research Ensuring genuine informed consent Sharing of data Acknowledging partner contributions

Sustaining relationships w/ no funding

Pursuit to Post: Ethical Issues of Social Media Use by International Medical Volunteers Zac Tabb, MD¹; Laurel Hyle, JD, MPH^{1,2}; Heather Haq, MD, MHS^{1,2}



Case

- During a global health elective in a lowincome country, a short-term medical volunteer (MV) uses a smartphone without her consent to record a patient delivering her child.
- The MV later posts the content to their social media profile.
- Discovering this, the host clinical director freezes all current and future visiting medical volunteer participation.
- The MV defends the action by pointing out the intentional effort to avoid recording the woman's face.
- Concerned about the erosion of patient care, host leadership requests to meet with the sending program leadership to discuss the future of the partnership.

Background

- Short-term experiences in global health (STEGH), increasingly sought out by MV, last 1-4 weeks and represent a multi-billion-dollar annual enterprise.^{1,2}
- Services include medical and surgical patient care, teaching, service-learning, and research.
- Many critiques exist including burdening hosts, working beyond one's skillset, dismissing local clinical practice, and power imbalances.^{3,4,5}
- Far less critically examined is the escalating use of social media by MVs participating in STEGH.
- In 2019, 4 billion people had internet access, with 3.5 billion on social media.⁶
- Issues with medical professional's use of social media include professionalism, patient privacy, data management, and misinformation.^{7,8}
- We present a framework to analyze ethical use of social media use by medical volunteers during STEGH.

¹Baylor College of Medicine; ²Texas Children's Hospital



Recommendations

<section-header><section-header></section-header></section-header>	 Ask, why am I capturing and disseminat Ask, would you practice social media us Avoid content that perpetuates negative a Maximize anonymity, including avoiding Request informed consent. Offer an opped Consider how you would feel if the roles
International Partnerships	 Partnerships should be built on a philosoprioritized when developing guidelines. Create an memorandum of understandin use as well as consequences for when the Create a formal consenting process that opermanence and ownership, and how to Incorporate ethical use of social media in



• What consequences might social media content collection and dissemination have for local hosts? For medical care? • Has consent been

obtained? Is there a process for reconsenting?

• Is there a way to retract permission at a later time?

• Have community leaders been consulted for permission?

• In which ways does local culture provide privileges to guests that might facilitate inappropriate social media use?

Host Institution



- What are the host organization's social media use policies?
- Has there been a memorandum of understanding established with the sending program covering ethical social media use?
- Has the host organization sufficiently contributed to the partnership's guidelines?
- Does the host organization have the authority to enforce consequences for guideline breaches if they occur?
- How do inherent power imbalances in the partnership challenge ethical social media policy? What pressures might host programs feel to be complicit?

ting this content? For the benefit of whom? se the same way in your home country? stereotypes.

ig identifying tags within posts.

- ortunity for re-consent.
- s were reversed.

ophy of mutuality and host input should be

ng with the host institution covering social media ose policies are breached.

covers intended use, posting location, access, data remove it.

nto pre-departure training.

- MVs.



Conclusion

• Working overseas is not an opportunity to take a vacation from practicing professional ethics. • Insufficient attention has been paid to social media use by MVs in STEGH and guidelines for the ethical use of social media are lacking. • Input from host countries is essential to establish policies with the best interest of those communities most vulnerable to harm from image content extracted and disseminated by

• Sending organizations must equally value these guidelines and enforce them.

• MVs should view the visual media collection process through a lens of solidarity in order to maximize benefit and minimize harm in their use of social media.

Case Resolution

Host leadership met with leadership for the sending program of the MV to outline appropriate hospital behavioral and social media use guidelines for visiting MVs.

During policy deliberations, other international partners had to suspend their STEGH programs that involved clinical care.

The host site ended the prohibition after

developing guidelines and once each

international partner agreed to enforce them with MVs as a requirement of continued

partnership.

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