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1  /* Analysis code for:
2
3  The Association Between Hate Crime Laws that Enumerate Sexual
4  Orientation
5  and Adolescent Suicide Attempts
6
7  Data include publicly available YRBS files plus data from 11
8  states that
9  do not permit their data to be included in YRBS public files
10 */
11
12 cd "/Users/x/Google Drive/Manuscripts/HCL ms/Data/HCL Final Data"
13
14 use "HCL.dta", clear
15
16 *Survey set data to account for complex survey design
17 svyset psu, strata(stratum) weight(weight) vce(linearized)
18
19 *Install effect size calculator for Cohen's d estimates
20 ssc install esizereg
21
22 *Generate indicators to subset sample from 2015-17
23 gen indicator_2015_17 = 1 if year >=2015 & year < 2019
24 replace indicator_2015_17 = 0 if indicator_2015_17 == . & year !=.
25
26 *Table 1
27 #delimit ;
28 svy linearized : regress attempt_dich c.year#i.
29 HateLaw_Enum_Ever_Treated c.year
30 i.HateLaw_Enum_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS
31 i.year if
32 ((HateLaw_Enum_Ever_Treated == 1) & (HateLaw_Enum_Current_Time ==0
33 )) | ((HateLaw_Enum_Ever_Treated == 0)
34 & (year < 2003)) ; #delimit cr
35
36 *Generate mean suicide rates for 'early adopter' states (last
37 paragraph before "primary analyses" section of results
38
39 *generate indicator to flag previously dropped states

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32     *generate indicator to flag previously dropped states
33     #delimit ;
34     gen Prev_dropped = 1 if sitecode == "CA" | sitecode == "CT" |
sitecode == "FL" | sitecode == "IL" |
35     sitecode == "IA" | sitecode == "ME" | sitecode == "NV" |
sitecode == "NH" | sitecode == "NJ" |
36     sitecode == "TX" | sitecode == "VT" | sitecode == "WI" |
sitecode == "DE" ; #delimit cr
37
38     gen HCL_3Level = .
39     replace HCL_3Level = 1 if HateLaw_Enum_Ever_Treated == 0
40     replace HCL_3Level = 2 if HateLaw_Enum_Ever_Treated == 1
41     replace HCL_3Level = 3 if Prev_dropped==1
42     label define HCL_3Level 1 "No HCL" 2 "HCL, Included in Sample"
3 "HCL, Excluded from Sample"
43     label values HCL_3Level HCL_3Level
44
45     svy linearized : mean attempt_dich, over(HCL_3Level) coeflegend
46     *Included HCL vs non-HCL states
47     test _b[attempt_dich:_subpop_1]=_b[attempt_dich:_subpop_2]
48     *Excluded vs. included HCL states
49     test _b[attempt_dich:_subpop_2]=_b[attempt_dich:_subpop_3]
50
51 *Table 2
52     *(Comparing SA rates in states with enumerated HCLs to states
w/out eHCL, which includes general or no law)
53     svy linearized : regress attempt_dich i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.age_cat_r i
.male i.race4 i.STATE_FIPS i.year
54
55     *Effect size
56     regress attempt_dich i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS i
.year [aweight=weight]
57     esizereg 1.HateLaw_Enum_Current_Time
58
59     *Follow-up 1: Exclude youth in states with no HCL at all;
contrast eHCL to general HCL states

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59      *Follow-up 1: Exclude youth in states with no HCL at all;
contrast eHCL to general HCL states
60      svy linearized : regress attempt_dich i.
Enum_v_GenOnly_Current i.HateLaw_Enum_Ever_Treated i.
HateLaw_Gen_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS i.
year
61      regress attempt_dich i.Enum_v_GenOnly_Current i.
HateLaw_Enum_Ever_Treated i.HateLaw_Gen_Ever_Treated i.age_cat_r i.
male i.race4 i.STATE_FIPS i.year [aweight=weight]
62      esizereg 1.Enum_v_GenOnly_Current
63
64      *Follow-up 2: Exclude youth in states with eHCL to compare
general HCL to no HCL
65      svy linearized : regress attempt_dich i.GenHCL_v_NoHCLatAll
i.HateLaw_Gen_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS
i.year
66      regress attempt_dich i.GenHCL_v_NoHCLatAll i.
HateLaw_Gen_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS i.
year [aweight=weight]
67      esizereg 1.GenHCL_v_NoHCLatAll
68
69      *Sensitivity test 1 (limited to outcomes within 3 survey
rounds post-eHCL)
70      *(Note LA removed due to gap in YRBS data immediately
following enactment)
71      gen Within_3_surveys = .
72
73      *eHCL treatment states
74      replace Within_3_surveys = 1 if sitecode == "AZ" & year <=
2009
75      replace Within_3_surveys = 1 if sitecode == "CO" & year <=
2011
76      replace Within_3_surveys = 1 if sitecode == "HI" & year <=
2009
77      replace Within_3_surveys = 1 if sitecode == "KS" & year <=
2009
78      replace Within_3_surveys = 1 if sitecode == "KY" & year <=
2007
79      replace Within_3_surveys = 1 if sitecode == "MO" & year <=
2005
80      replace Within_3_surveys = 1 if sitecode == "NE" & year <=
2003
81      replace Within_3_surveys = 1 if sitecode == "NY" & year <=
2007

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81         replace Within_3_surveys = 1 if sitecode == "NY" & year <=
2007
82         replace Within_3_surveys = 1 if sitecode == "RI" & year <=
2003
83         replace Within_3_surveys = 1 if sitecode == "TN" & year <=
2007
84
85         *non-eHCL control states (M year in eHCL state cut-off =
2007)
86         replace Within_3_surveys = 1 if HateLaw_Enum_Ever_Treated
== 0 & year <= 2007
87
88         svy linearized : regress attempt_dich i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.age_cat_r i
.male i.race4 i.STATE_FIPS i.year if Within_3_surveys ==1
89         regress attempt_dich i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.age_cat_r i.male i.race4 i.STATE_FIPS i
.year [aweight=weight] if Within_3_surveys ==1
90         esizereg 1.HateLaw_Enum_Current_Time
91
92     /*
93     Table 3
94     (Heterosexual as reference)
95     (partial eta-squared converted to Cohen's d:
https://www.psychometrica.de/effect\_size.html
96     Cohen, Jacob. Statistical Power Analysis for the Behavioral
Sciences, 2nd ed., New Jersey: Lawrence Erlbaum Associates, Inc.,
1988 (pp. 279-89)
97     f = sqr( eta^2 / ( 1 - eta^2 ) )
98     d = 2*f
99     */
100
101     svy linearized, subpop(if indicator_2015_17==1) : regress
attempt_dich i.HateLaw_Enum_Current_Time#i.GayLes_v_Hetero i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.
GayLes_v_Hetero i.age_cat_r i.race4 i.male i.STATE_FIPS i.year
102         *Effect size
103         regress attempt_dich i.HateLaw_Enum_Current_Time#i.
GayLes_v_Hetero i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.GayLes_v_Hetero i.age_cat_r i.race4 i.
male i.STATE_FIPS i.year [aweight=weight] if indicator_2015_17==1

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HateLaw_Enum_Ever_Treated i.GayLes_v_Hetero i.age_cat_r i.race4 i.
male i.STATE_FIPS i.year [aweight=weight] if indicator_2015_17==1
104     estat esize
105
106 svy linearized, subpop(if indicator_2015_17==1) : regress
attempt_dich i.HateLaw_Enum_Current_Time#i.Bisexual_v_Hetero i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.
Bisexual_v_Hetero i.age_cat_r i.race4 i.male i.STATE_FIPS i.year
107     *Effect size
108     regress attempt_dich i.HateLaw_Enum_Current_Time#i.
Bisexual_v_Hetero i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.Bisexual_v_Hetero i.age_cat_r i.race4 i.
.male i.STATE_FIPS i.year [aweight=weight] if indicator_2015_17==1
109     estat esize
110
111 svy linearized, subpop(if indicator_2015_17==1) : regress
attempt_dich i.HateLaw_Enum_Current_Time#i.Questioning_v_Hetero i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.
Questioning_v_Hetero i.age_cat_r i.race4 i.male i.STATE_FIPS i.year
112     *Effect size
113     regress attempt_dich i.HateLaw_Enum_Current_Time#i.
Questioning_v_Hetero i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.Questioning_v_Hetero i.age_cat_r i.
race4 i.male i.STATE_FIPS i.year [aweight=weight] if
indicator_2015_17==1
114     estat esize
115
116 /*
117 Table 4
118 (Gay/lesbian as reference)
119 */
120 svy linearized, subpop(if indicator_2015_17==1) : regress
attempt_dich i.HateLaw_Enum_Current_Time#i.Bisexual_v_GayLes i.
HateLaw_Enum_Current_Time i.HateLaw_Enum_Ever_Treated i.
Bisexual_v_GayLes i.age_cat_r i.race4 i.male i.STATE_FIPS i.year
121     *Effect size
122     regress attempt_dich i.HateLaw_Enum_Current_Time#i.
Bisexual_v_GayLes i.HateLaw_Enum_Current_Time i.
HateLaw_Enum_Ever_Treated i.Bisexual_v_GayLes i.age_cat_r i.race4 i.
.male i.STATE_FIPS i.year [aweight=weight] if indicator_2015_17==1

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