

Yes, it looks promising!

Why CDC??

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Rank	Age Groups <1 1.4 5-9 10-14 15-24 25-34 35-44 45-54 55-64 65+									Total	
1	Congenital Anomalies 4,746	Unintentional Injury 1,216	Unintentional Injury 730	Unintentional Injury 750	Unintentional Injury 11,836	Unintentional Injury 17,357	Unintentional Injury 16,043	Malignant Neoplasms 44,834	Malignant Neoplasms 115,282	Heart Disease 489,722	Heart Disease 614,348
2	Short Gestation 4,173	Congenital Anomalies 399	Malignant Neoplasms 436	Suicide 425			Malignant Neoplasms 11,267	Heart Disease 34,791	Heart Disease 74,473	Malignant Neoplasms 413,885	Malignant Neoplasms 591,699
3	Maternal Pregnancy Comp. 1,574	Homicide 364	Congenital Anomalies 192	Malignant Neoplasms 416	Homicide 4,144	Homicide 4,159	Heart Disease 10,368	Unintentional Injury 20,610	Unintentional Injury 18,030	Chronic Low. Respiratory Disease 124,693	Chronic Low. Respiratory Disease 147,101
4	SIDS 1,545	Malignant Neoplasms 321	Hemicide 123	Congenital Anomalies 156	Malignant Neoplasms 1,569	Malignant Neoplasms 3,624	Suicide 6,706		Chronic Low. Respiratory Disease 16,492	Cerebro- vascular 113,308	Unintentional Injury 136,053
5	Unintentional Injury 1,161	Heart Disease 149	Heart Disease 69	Homicide 156	Heart Disease 953	Heart Disease 3,341	Homicide 2,588	Liver Disease 8,627	Diabetes Mellitus 13,342	Alzheimer's Disease 92,604	Cerebro- vascular 133,103
6	Placenta Cord. Membranes 965	Influenza & Pneumonia 109	Chronic Low. Respiratory Disease 68	Heart Disease 122	Congenital Anomalies 377	Liver Disease 725	Liver Disease 2,582	Diabetes Mellitus 6,062	Liver Disease 12,792	Diabetes Mellitus 54,161	Alzheimer's Disease 93,541
7	Bacterial Sepsis 544	Chronic Low Respiratory Disease 53	Influenza & Pneumonia 57	Chronic Low Respiratory Disease 71	Influenza & Pneumonia 199	Diabetes Mellitus 709	Diabetes Mellitus 1,999	Cerebro- vascular 5,349	Cerebro- vascular 11,727	Unintentional Injury 48,295	Diabetes Meilitus 76,488
8	Respiratory Distress 460	Septicemia 53	Cerebro- vascular 45	Cerebro- vascular 43	Diabetes Mellitus 181	HV 583	Cerebro- vascular 1,745	Chronic Low. Respiratory Disease 4,402	Suicide 7,527	Influenza & Pneumonia 44,835	Influenza & Pneumonia 55,227
9	Circulatory System Disease 444	Benign Neoplasms 38	Benign Neoplasms 36	Influenza & Pneumonia 41	Chronic Low Respiratory Disease 178	Cerebro- vascular 579	HV 1,174	Influenza & Pneumonia 2,731	Septicemia 5,709	Nephritis 39,957	Nephritis 48,146
10	Neonatal Hemorrhage 441	Perinatal Period 38	Septicemia 33	Benign Neoplasms 38	Cerebro- vascolar 177	Influenza & Pneumonia 549	Influenza & Pneumonia 1,125	Septicemia 2,514	Influenza & Pneumonia 5,390	Septicemia 29,124	Suicide 42,773



Age Groups									1		
Rank	<1 1-4 5-9 10-14 15-24 25-34 35-44 45-54 55-64 65+									Total	
1	Unintentional Sufficiation 991	Unintentional Drowning 388	Unintentional MVTraffic 345	Unintentional MV Traffic 384	Unintentional MV Traffic 6,531	Unintentional Poisoning 9,334		Unintentional Poisoning 11,009	Unintentional Poisoning 7,013	Unintentional Fall 27,044	Unintention Poisoning 42,032
2	Homicide Unspecified 119	Unintentional MV Traffic 293	Unintentional Drowning 125	Suicide Suffocation 225	Homicide Firearm 3,587	Unintentional MV Traffic 5,856	Unintentional MV Traffic 4,308	Unintentional MV Traffic 5,024	Unintentional MV Traffic 4,554	Unintentional MV Traffic 6,373	Unintention MV Traffic 33,736
3	Homicide Other Spec., Classifiable 83	Homicide Unspecified 149	Unintentional Fire/Burn 58	Suicide Firearm 174	Unintentional Poisoning 3,492	Homicide Firearm 3,250	Suicide Firearm 2,830	Suicide Firearm 3,953	Suicide Firearm 3,910	Suicide Firearm 5,367	Unintention Fall 31,959
4	Unintentional MV Traffic 61	Unintentional Sufficiation 120	Homicide Firearm 58	Homicide Firearm 115	Suicide Firearm 2,270	Suicide Firearm 2,829	Suicide Suffocation 2,057	Suicide Suffocation 2,321	Unintentional Fall 2,558	Unintentional Unspectified 4,590	Suicide Firearm 21,334
5	Undetermined Suffication 40	Unintentional Fire/Burn 117	Unintentional Other Land Transport 36	Unintentional Drowning 105	Suicide Suffocation 2,010	Suicide Suffocation 2,402	Homicide Firearm 1,835	Suicide Poisoning 1,795	Saicide Poisoning 1,529	Unintentional Suffection 3,692	Suicide Suffocatio 11,407
6	Unintentional Drowning 29	Unintentional Pedestrian, Other 107	Unintentional Suffication 34	Unintentional Fire/Burn 49	Unintentional Dreaming 507	Suicide Poisoning 800	Suicide Poisoning 1,274	Unintentional Fall 1,340	Suicide Suffocation 1,509	Unintentional Poisoning 1,993	Homicide Firearm 10,945
7	Homicide Suffocation 26	Homicide Other Spec., Classifiable 73	Unintentional Natural/ Environment 22	Unintentional Other Land Transport 49	Suicide Poisoning 363	Undetermined Poisoning 575	Undetermined Poisoning 637	Homicide Firearm 1,132	Unintentional Suffocation 698	Adverse Effects 1,554	Suicide Poisoning 6,808
8	Unintentional Natural/ Environment 17	Homicide Firearm 47	Unintentional Pedestrian, Other 18	Unintentional Suffication 33	Homicide Cut/Pierce 314	Homicide Cat/Pierce 430	Unintentional Fall 504	Undetermined Poisoning 820	Undetermined Poisoning 539	Unintentional Fire/Burn 1,151	Unintention Suffection 6,580
9	Undetermined Unspecified 16	Unintentional Struck by or Against 38	Unintentional Struck by or Against 16	Unintentional Poisoning 22	Undetermined Poisoning 229	Unintentional Drowning 399	Unintentional Drowning 363	Unintentional Suffocation 452	Homicide Firearm 538	Suicide Poisoning 1,028	Unintention Unspecifie 5,848
10	Unintentional Fire/Bum 15	Unintentional Natural/ Environment 35	Unintentional Firearm (fied) 14	Homicido Cut/Pierce 19	Unintentional Other Land Transport 177	Unintentional Fall 285	Homicide Cut/Pierce 313	Unintentional Drowning 442	Unintentional Unspecified 530	Suicide Suffecation 890	Unintention Drowning 3,406





### Ignition Interlocks Reduce Alcohol-Impaired Driving

"We know that interlock devices can save lives. More widespread use of ignition interlocks will reduce alcohol-related crash deaths and injuries." February 22,2011



CDC Director Dr. Thomas R. Frieden

THE Guide to Community Preventive Services THE COMMUNITY GUIDE

## Community Guide Ignition Interlock Review Findings

- Re-arrests declined by a median of 67% while interlocks installed
- Interlocks appeared to be equally effective for first offenders as for repeat offenders
- Upon removal, re-arrest rates are similar to rates of offenders who did not install an interlock

http://www.thecommunityguide.org/mvoi/AID/ignitioninterlocks.html

Elder RW, et al. American Journal of Preventive Medicine 2011:40(3);362-76.

#### Community Guide To Increase Effectiveness



- Consider integrating interlocks into DUI courts or other comprehensive rehabilitation programs
- Consider intensive monitoring of offenders & performance-based criteria for removal of interlock

# Florida Project

- Question
  - Does mandated substance abuse treatment for DUI offenders on interlocks, based on their interlock breath tests, reduce post-interlock recidivism?

FLORIDA

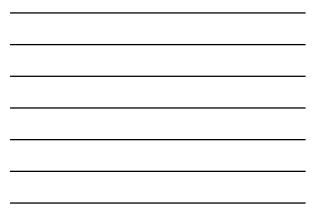
- Background
  - Number of lockouts on interlock is predictive of recidivism post-interlock  $^{\rm l}$
  - In 2008 Florida initiated a treatment program tied to offender behavior on the interlock
    - Provide monitoring, treatment, and education to offenders with multiple DUI offenses on the interlock

<sup>1</sup>Marques 2003. Behavioral measures of drinking: Patterns in the interlock record. Addiction 2003:98;13-19.



# Florida Ignition Interlock Requirements

DUI Conviction	Ignition Interlock Requirement
First Conviction	If court ordered
First Conviction if 0.15 or above or minor in car	At least 6 months
Second Conviction	At least 1 year
Second Conviction if 0.15 or above or minor in car	At least 2 years
Third Conviction	At least 2 years
Four or More Convictions (Condition of Hardship License)	At least 5 years
https://www.flhsmv.gov/ddl/llD.html; Source: Section 316	5.193, Florida Statutes



#### Florida Administrative Interlock Program Treatment Policy

- Violation #1
  - Offender goes for an educational review of interlock operations and preventive measures
- Violation #2
  - Offender goes into monthly case management monitoring program including regular review of interlock logs
- Violation #3
  - Offender continues in monthly monitoring program AND goes into mandatory treatment program

#### **Treatment Program**



- Substance abuse counselors are licensed by Florida's Department of Children and Family
- Provider assesses problem and develops treatment plan
- Individual or group therapy
- Typically lasts 8-12 weeks
- Offender must complete treatment to have interlock removed

http://www.myflfamilies.com/service-programs/substance-abuse/samh/treatment

#### **Study Methods**

- Data
  - Florida Department of Motor Vehicles and Highway Safety administrative database of interlock program records
  - $-\,$  Interlock records from the two Florida interlock vendors
  - Alcohol Countermeasure Systems & LifeSafer
- Study Groups
  - Treatment: 640 offenders with 3+ violations\* who completed substance abuse treatment on interlock and deinstalled
  - Comparison: 806 offenders similar to treatment group but had I or 2 violations and completed interlock period and deinstalled
- Analysis
  - Survival analysis using Cox regression proportional hazards model to examine post-interlock recidivism

\* Violation is two "lockouts" within 4 hours (trying to start with a BAC > .05)

#### Characteristics of the Treatment and Comparison Groups of Multiple Offenders

	Value	Treatment %	Comparison %
Age	<25	3	4
	25-34	21	21
	35-44	27	29
	45-54	32	30
	55+	9	10
Sex	Male	78	82
	Female	22	18
Race/Ethnicity	White	76	75
	Black	9	8
	Hispanic	6	9
	Other/Unknown	9	8
3+ Prior DUI Offenses	N/A	45	58

#### Benefits of Substance Abuse Treatment for Multiple-offender DUI Ignition Interlock Users

- Overall: 32% lower recidivism among the treatment group after interlock removal over 30 months
- Prevented an estimated
  - 45 rearrests
  - 14 crashes
  - 10 injuries
- Economic benefit
  - Treated 640 DUI offenders at a cost of \$192,000 (\$300 each)
  - Prevented \$905,000 in crash costs
  - Net benefit = \$713,000

## Conclusions

- Incorporating treatment into the ignition interlock program shows promise in reducing recidivism
  - Referral to treatment based on performance on the interlock
  - $-\,$  Offender must complete treatment to get interlock removed
- Increasing the number treated
  - Currently 2.3% of offenders are treated (3+ violations)
  - Study identified a group with similar risk of recidivism but <3 violations
  - Some suggested criteria
    - $o \ge 6$  lockouts
    - $_{\odot} \ge 4$  morning lockouts
    - $\circ$  Any test with a BAC ≥ 0.15%









An alcohol ignition interlock is a breath-test device connected to a vehicle's ignition. The vehicle will not start unless the driver blows into the interlock and has a blood alcohol concentration (BAC) below a pre-set low

# Increasing Alcohol Ignition Interlock Use Successful Practices for States

Keep your state safe—increase alcohol ignition interlock use.

Report at: www.cdc.gov/motorvehiclesafety/impaired\_driving/ignition\_interlock\_states.html