





Alcohol and Women HCC webinar, December 6th 2019

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- Why the concern
- Alcohol use
- Burden of alcohol use
- Particular issues with alcohol and women
- Policy options

NCD-related mortality in the Caribbean

53,928

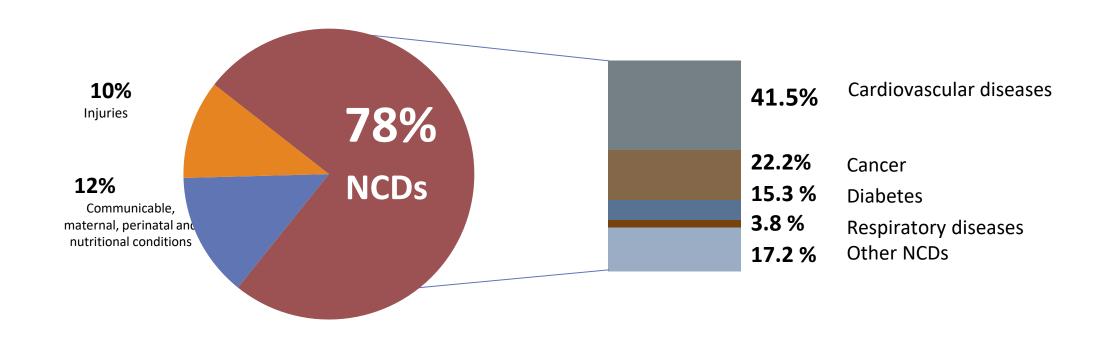
Estimated total deaths

41,995 (78%)

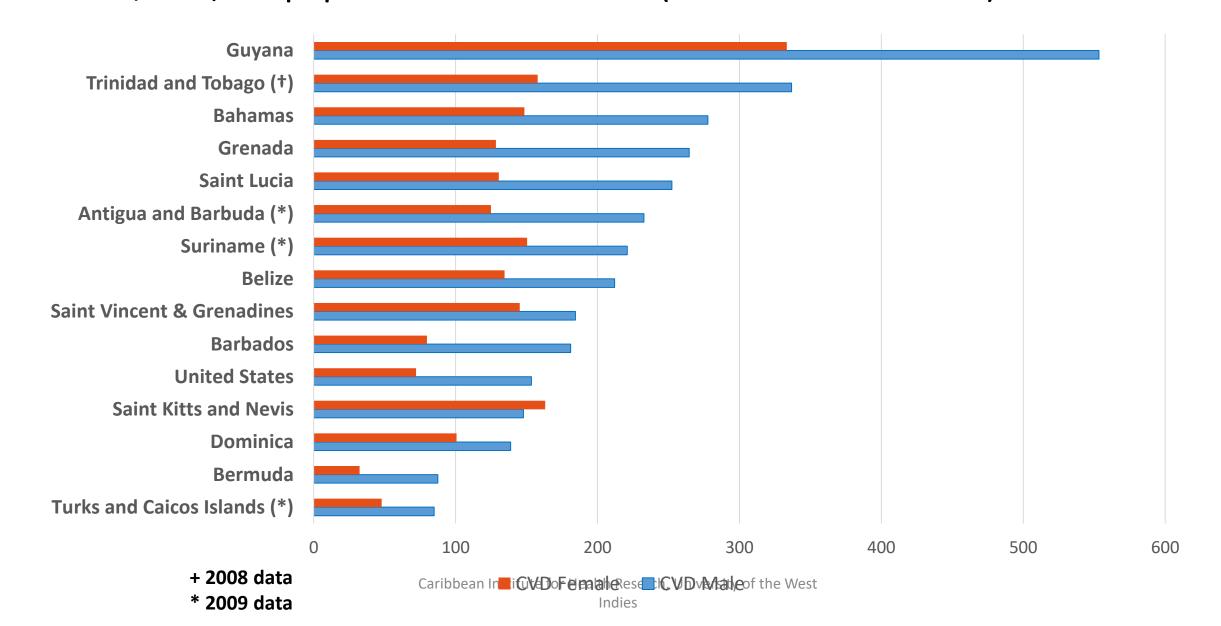
All deaths are caused by NCDs

38%

NCD deaths are premature (30-70 years)



Premature (30–69 years) age-standardized mortality rates from cardio-vascular diseases/ 100,000 popltn in CARICOM 2010 (Source: Ordunez et al)



The NCD Causation Pathway

Underlying determinants

- Globalization
- Urbanization
- Population ageing
- Social determinants

Common risk factors

- *Tobacco use
- +Unhealthy diet
- Physical inactivity
- Harmful use of alcohol
- Air pollution
- *Age & heredity (nonmodifiable)

Intermediate risk factors

- Raised blood sugar
- Raised blood pressure
- Abnormal blood lipids
- Overweight/obesity
- Abnormal lung function

Diseases

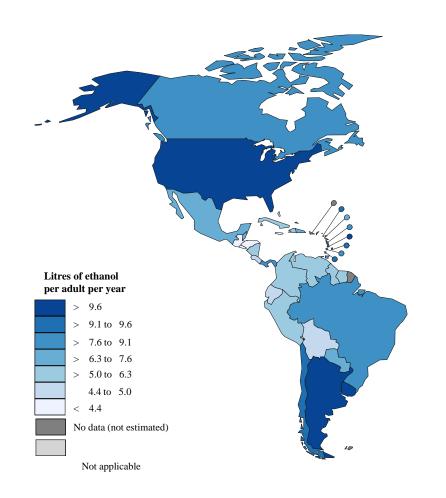
- Cardiovascular disease
- Cancer
- Diabetes
- Chronic respiratory disease

Adapted from WHO (2005) Preventing Chronic Disease: a Vtal Investment.



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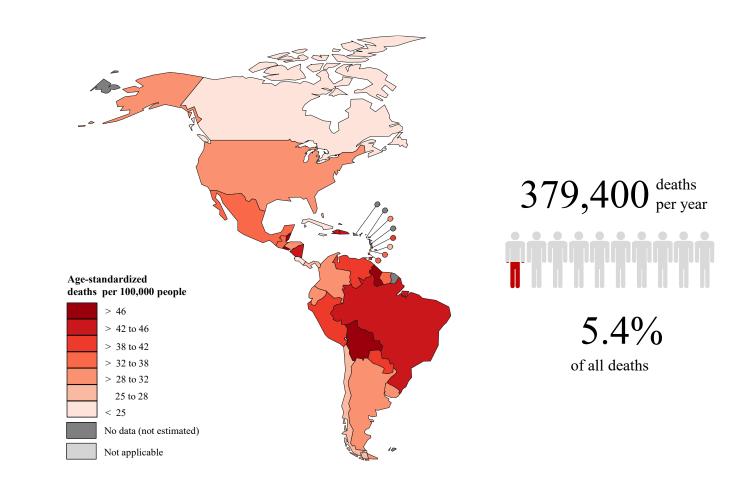
Alcohol consumption in 2016 in the Americas



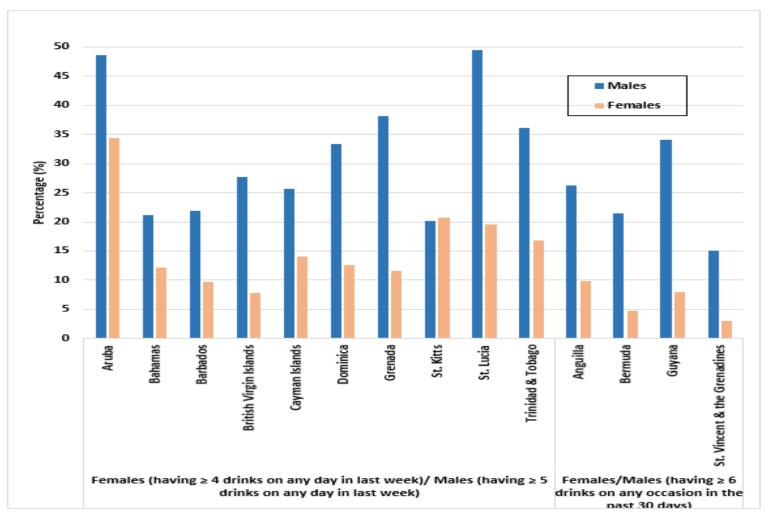
Alcohol consumption in the Caribbean countries varies between 6.3->9.6 litres of ethanol per adult per year

Deaths due to alcohol in 2016 in the Americas

Alcohol is estimated to contribute to 28-46 deaths per 100,000 population in the Caribbean



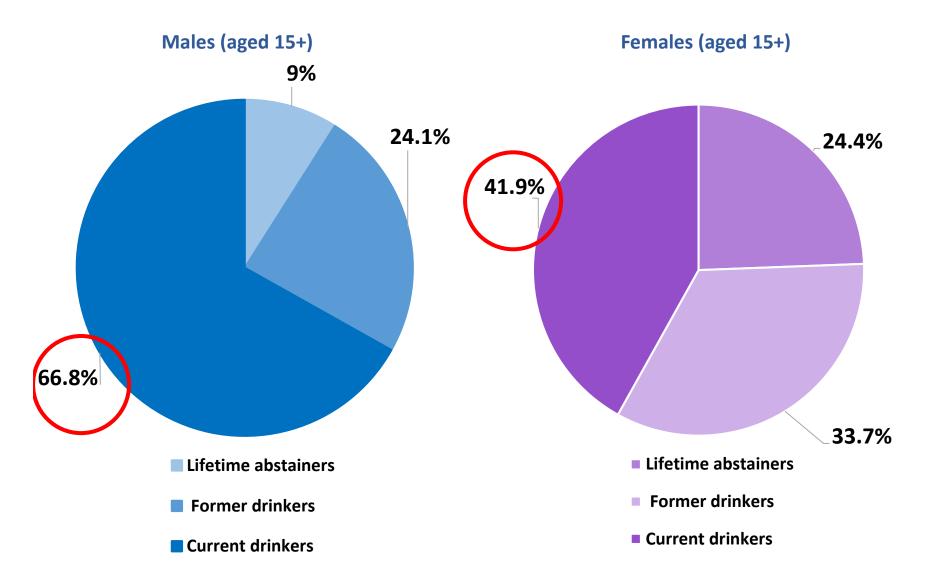
Harmful Use of Alcohol Among Adults



Harmful use of alcohol is common among adults in the Caribbean.
Excessive alcohol use:
males (15 - 48%) females (3 - 20%)

Source: CARPHA Risk Factor Data Base

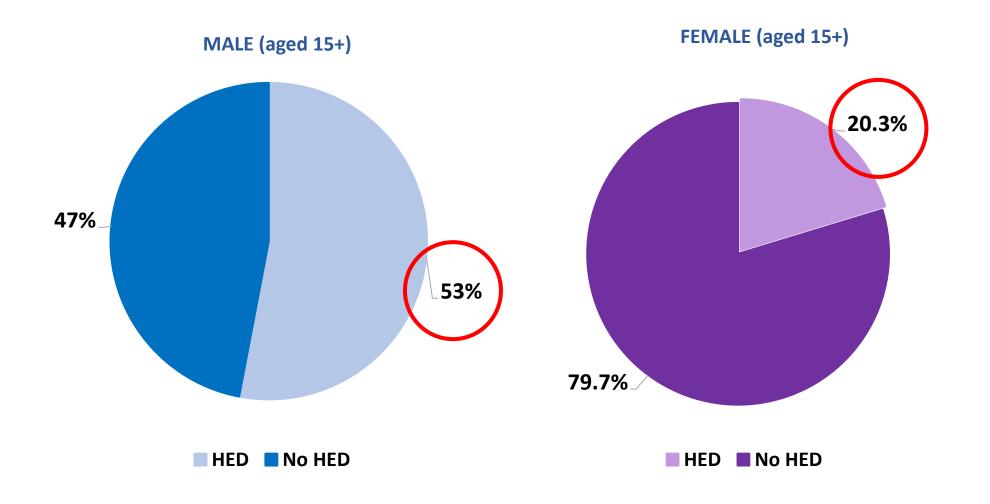
LEVELS OF CONSUMPTION (by gender, aged 15+), 2016







PREVALENCE OF HEAVY EPISODIC DRINKING (HED) AMONG DRINKERS (by gender, aged 15+ years), 2016







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Defining Alcohol Abuse

Clinically significant impairment in
 ≥1 in 12 months:

- Failure to fulfill major obligations
- Physically hazardous conditions
- Legal problems (DUIs, disorderly cond.)
- Social/Interpersonal problems

Defining Alcohol Dependence

- Clinically significant impairment in ≥3 in year:
 - Withdrawal

- Tolerance
- Larger amt./longer period than intended
- Persistent desire/efforts to cut down
- Excessive time with or obtaining alcohol
- Activities given up due to alcohol
- Continued use despite problems

Alcohol Use Disorder / Alcoholism in women

- Alcoholism is a problem for both men and women.
- But it is a disease that affects women physically, emotionally, and psychologically differently than men.
- Women with alcohol problems are more at risk of heart disease, cancer, liver disorders, loss of personal relationships, abusive relationships, and suicide.
- Women alcoholics tend to drink to escape feelings of loneliness, and because of depression.

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Effect on the Sexes



Blood alcohol content differ for men and women.

Female Charts appropriate ALCOHOL IMPAIRMENT CHART

	APF	PROX	IMAT	E BL	DOD A	ALCO	HOL	PERC	ENT	AGE
Drinks				Body W	leight ir	Poun	ds			
	90	100	120	140	160	180	200	220	240	_
0	.00	.00	.00	.00	.00	.00	.00	.00	.00	ONLY SAFE DRIVING LIMIT
1	.05	.05	.04	.03	.03	.03	.02	.02	7.02	Impairment Segins
2	.10	.09	.08	.07	.06	.05	.05	.04	-,04	Driving Skills Affected
3	.15	.14	.11	.10	.09	.08	.07	.06	.06	Possible Criminal Penalties
4	.20	.18	.15	.13	7.11	10	09	08	.08	Granital Finance
5	.25	.23	19	1.16	14	13	117	.10	.09	
6	.30	27	23	19	17	1.15	.14	.12	.11	Legally
7	135	.32	27	23	20	.18	.16	.14	.13	Introcated
8	.40	.36	30	.26	.23	.20	.18	.17	.15	Penalties
9	.45	.41	.34	.29	.26	23	20	.19	.17	
10	.51	.45	.38	.32	.28	.25	.23	.21	.19	



	APP	AGE							
Drinks									
	100	120	140	160	180	200	220	240	ownowskie
0	.00	.00	.00	.00	.00	.00	.00	.00	ONLY SAFE DRIVING LIMIT
1	.04	.03	.03	.02	.02	.02	.02	.02	Impairment
2	.08	.06	.05	.05	.04	.04	03	.03	Begins
3	.11	.09	.08	.07	.06	.06	.05	.05	Driving Skills Affected
4	.15	.12	.11	.09	\.08	.08	.07	.06	Possible Criminal Penalties
5	.19	.16	-13	.12	11	.09	.09	.08	
6	.23	.19	.16	.14	13	.11	.10	.09	
7	.26	.22	119	16	.15	.13	.12	.11	Legally Intoxicated
8	.30	.25	21	.19	.17	.15	.14	.13	Criminal
9	.34	.28	.24	.21	.19	.17	.15	.14	Penalties
10	.38	.31	.27	.23	.21	.19	.17	.16	

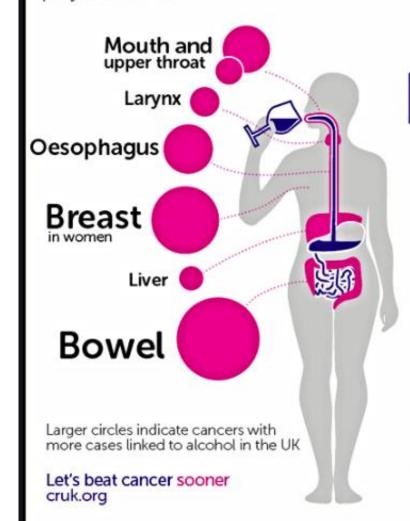
Health

- Women absorb and metabolize alcohol differently than men.
- Alcohol consumption is associated with a linear increase in breast cancer incidence
- Women experience greater impairment than men with equivalent doses of alcohol.
- Women drink less than men, but are more susceptible to
 - Toxic effects of alcohol on the heart muscle.

 - ©Chronic pancreatitis, alcoholic hepatitis and cirrhosis

ALCOHOL CAN CAUSE 7 TYPES OF CANCER

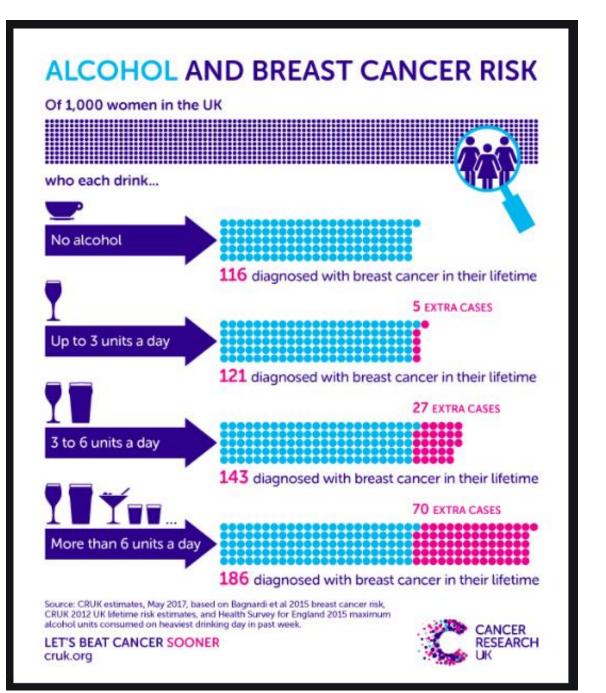
Drinking less alcohol could **prevent 12,800 cancer cases** per year in the UK.



4 WAYS ALCOHOL CAUSES CANCER

- Damages cells
- Increases damage from tobacco
- Affects hormones linked to breast cancer
- Breaks down into cancer-causing chemicals





ALCOHOL, BREAST CANCER AND MARKETING









Materials from AlcoholJustice.org

Use During Pregnancy

- •Women who are, or planning to be pregnant, should not drink alcohol.
- Alcohol use during pregnancy puts the unborn child at risk of Fetal

 Alcohol Syndrome or Fetal Alcohol Effects

Alcohol and oestrogen

- Estrogen causes alcohol to be more quickly absorbed into the bloodstream, but slows down its metabolism from the body
- Alcohol can affect the menstrual cycle and a woman's fertility

STDs, Rape and Domestic Violence

- STDs and unplanned pregnancy among college students often associated with one or both partners are drinking
- Majority of rape involve either the perpetrator and/or the woman alcohol use.
- Majority of domestic violence, wife battering and child abuse associated with alcohol.
- Alcohol renders a man less capable of suppressing impulses toward violence; women less able to perceive behavioral cues to potential violence and less able to protect themselves from violence in progress.

Harm to Others from Alcohol

	Individual	Family	Work	Society
Health burde	Morbidity from diseases caused or worsened by AD and associated premature mortality	Injury; stress-related problems for other family members; FASD; interpersonal violence	Injury	Acute care hospitalisations for health problems caused by alcohol; injuries; infectious diseases; FASD
Socia	Decreases in functionality associated with AD (blackouts, hours of drunkenness); decrease in social role; loss of friendships; stigma	Problems with parental roles, partnership roles, and roles as caregiver in general (e.g., to parents)	Team problems; others having to compensate for lack of productivity	Social costs of alcohol; vandalism
Econo	Dependent on society and on SES of person with AD; often cost of alcohol plus cost of possible job loss or absenteeism; possible social drift downwards	Financial problems resulting from health and social consequences of alcohol impacting on family budget and household expenses	Absenteeism and other productivity costs (mainly suboptimal performance when working and disability, short- and long-term); replacement costs in case of premature mortality or long-term disability	Productivity losses; health care costs; costs in the legal sector (police, court, prisons)

Suicide among alcoholics

- One study showed that 40% of alcoholic women attempted to commit suicide, compared to 8.8% of non-alcoholic women,
- **©**A study of suicides among females in New Mexico found that 65.5% of the decedents had alcohol or drugs present in their blood at the time of autopsy.

Victimization

©Female victims of intimate violence reported that the offender had been drinking at the time of the offense.

Criminal Behaviour

 An estimated 4 in 10 women who committed violent acts were perceived as being under the influence of alcohol and/or drugs at the time of the crime.

Alcohol and aging

- Women experience the damaging effects of chronic alcohol use more severely and usually more rapidly than men.
- Alcohol interferes with several processes of aging. E.g. more extreme changes during menopause;
- Alcohol also increases risk of osteoporosis because it interferes with absorption of calcium, resulting in greater loss of bone density.

Assessment of Women with AUDs

- Avoid stereotype
 - Stigma, guilt
 - Presentation

- History
 - Routine screening
 - Open vs closed questions
 - Non-judgmental attitudes
 - Problem focused assessment

Psychosocial Assessment Factors

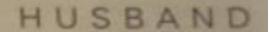
- Risk
 - Isolation
 - Early initiation
 - Hx of neglect, abuse
 - Tobacco

- Protective
 - Multiple roles
 - Married
 - Student athletes

Treatment

Women who are alcoholic frequently have a different experience than males For example:

- Alcoholism in women is generally diagnosed at more advanced stages than in men, delaying the onset of treatment.
 - This probably occurs because women are more discreet about their abusive drinking than men and tend to be more isolated in their drinking.
- Because of employment, economic and family factors, women have less access to treatment than men.







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WHO Recommended Best Buys

- Tax increases increase price reduces demand
- Restricted access to retailed alcohol
- Bans on alcohol advertising

ALCOHOL INDUSTRY RECOMMENDATIONS

- Personal responsibility "Drink responsibly"
- More research

Prices of alcohol promoting use

PROMO 3 buckets

RM199 ONLY.

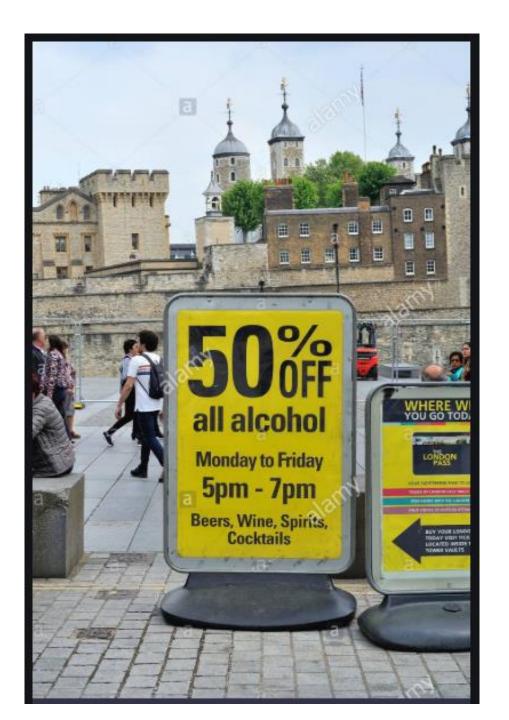
BEER CHOICES

- HOEGAARDEN (Normal price: RM260)
- SOMERSBY (Normal price: RM240)
- CORONA (Normal price : RM240)

BALLY



"While Stock Last





Alcohol Research

- Most in male subjects (14% women)
- May not consider gender differences
 - Body weight
 - Body fat
 - Alcohol dehydrogenase



Bans on alcohol advertising

Examples of alcohol marketing



Expenditure in
ADVERTISING in the
Dominican Republic
increased from USD
241 million in 2010 to
USD 501 million in
2016





Presidente











Anti-oxidant Beer



Table 3. Prevalence of high exposure to alcohol advertisement, reduced access to retail alcohol and riding in a car driven by someone under the influence of alcohol in the past 30 days, by country and subregion, including 95% confidence intervals [CI] and sample size

	High exposure to alcohol advertisement ^a			Reduced access to retail alcohol ^b			Riding in a car driven by someone under the influence of alcohol ^c		
Subregion/country	%	[95% CI]	n	%	[95% CI]	n	%	[95% CI]	n
Andean									
Bolivia	22.41	[19.62, 25.46]	2,661	_	-	_	_	_	_
Ecuador (Quito)	33.73	[28.38, 39.53]	1,309	53.25	[47.82, 58.60]	298	-	-	-
English-speaking Caribbean					A 1				
Anguilla	25.60	N.A.	557	-	_	-	-	_	_
Antigua and Barbuda	29.12	[25.49, 33.03]	1,187	_	-	_	_	_	_
Bahamas	26.76	[21.25, 33.11]	1,051	-	-	-	_	-	-
British Virgin Islands	24.98	N.A.	909	-	-	-	31.64	N.A.	659
Cayman Islands	35.68	N.A.	906	-	-	-	-	-	-
Dominica	25.49	[22.41, 28.83]	995	46.91	[40.67, 53.25]	268	29.08	[24.76, 33.80]	793
Grenada	30.07	[26.18, 34.27]	1,101	_	-	-	-	_	-
Guyana	31.49	[26.65, 36.78]	1,936	41.54	[35.29, 48.07]	497	55.52	[50.97, 59.97]	616
Jamaica	-		_	36.26	[30.42, 42.52]	432	_	_	-
Montserrat	27.62	N.A.	146	-	_	_	-	_	_
Saint Kitts and Nevis	-	_	-	-	-	_	24.08	N.A.	941
Saint Lucia	44.62	[39.88, 49.47]	857	-	-	-	-	-	-
Saint Vincent and Grenadines	31.44	[28.23, 34.85]	1,001	_	_	-	_	-	-
Trinidad and Tobago	31.84	[26.89, 37.25]	1,783	_	-	-	35.22	[31.87, 38.73]	1,312

Probst C, Monteiro M, Smith B, Caixeta R, Merey A, Rehm J. Alcohol Policy Relevant Indicators and Alcohol Use Among Adolescents in Latin America and the Caribbean. J Stud Alcohol Drugs. 2018 Jan;79(1):49-57

"Personal Responsibility"

Alcohol warning labels

- Experimental study evidence suggests may have an impact if placed on broadcast advertising
- On bottles, can you find it?
- Evidence is that alcohol warnings on bottles influence:
 - Attention or awareness
 - Recall
 - Judgment about danger or perceived risk
- NO effect on behavior

NOT a good example!









References

8th Annual CAPTASA **Conference** January 25 - 26, 2008; Clinical Applications of the Principles in Treatment of Alcoholism and Substance Abuse

Confederation of Northwest Addiction Research Centers: Addiction: Mechanisms, Prevention, Treatment, Conjoint 556; Creation of 21st Century Addiction Science Professor Rico Catalano, School of Social Work

Probst C, Monteiro M, Smith B, Caixeta R, Merey A, Rehm J. Alcohol Policy Relevant Indicators and Alcohol Use Among Adolescents in Latin America and the Caribbean. J Stud Alcohol Drugs. 2018 Jan;79(1):49-57.