0:00:04.180,0:00:09.860 hello and welcome to the NABC a webinar

0:00:07.430,0:00:12.470 changing alcohol use in emergency room

0:00:09.860,0:00:13.700 visits before I introduce our speaker

0:00:12.470,0:00:14.990 dr. Erin white

0:00:13.700,0:00:19.940 I wanted to address a few housekeeping

0:00:14.990,0:00:22.850 notes the webinar is one of a series of

0:00:19.940,0:00:25.010 several plan through 2019 another

0:00:22.850,0:00:26.840 webinar a webinar addressing the federal

0:00:25.010,0:00:28.730 trade practice rules and regulations

0:00:26.840,0:00:31.820 relevant to the brewing industry is

0:00:28.730,0:00:34.909 planned for September with the alcohol

0:00:31.820,0:00:37.489 and tobacco tax and trade Bureau now

0:00:34.909,0:00:39.829 back to today's webinar it will be about

0:00:37.489,0:00:41.629 one hour if you have a question please

0:00:39.829,0:00:44.269 type it in the chat window in the lower

0:00:41.629,0:00:46.129 right hand corner of the screen at the

0:00:44.269,0:00:48.469 end of the presentation I will come back

0:00:46.129,0:00:52.039

and ask the question on behalf of dr.

0:00:48.469,0:00:53.870 white to address them the presentation

0:00:52.039,0:00:57.559 is being recorded and will be available

0:00:53.870,0:01:00.079 through the NABC a.org website within

0:00:57.559,0:01:04.729 seven to ten business days you will find

0:01:00.079,0:01:06.940 it under the resources tab I now would

0:01:04.729,0:01:09.350 like to introduce dr. Erin white

0:01:06.940,0:01:11.450 dr. white is the senior scientific

0:01:09.350,0:01:13.040 advisor to the director at the National

0:01:11.450,0:01:13.810 Institute on Alcohol Abuse and

0:01:13.040,0:01:16.370 Alcoholism

0:01:13.810,0:01:18.200 his areas of scientific expertise

0:01:16.370,0:01:20.020 include the impact of alcohol and other

0:01:18.200,0:01:22.660 drugs on brain function and behavior

0:01:20.020,0:01:24.650 alcohol induced memory blackouts

0:01:22.660,0:01:27.530 epidemiology of alcohol and other drugs

0:01:24.650,0:01:29.200 and prevention strategies dr. white

0:01:27.530,0:01:32.000 received his PhD in biological 0:01:29.200,0:01:35.570 psychology from Miami University in Ohio

0:01:32.000,0:01:37.670 in 1999 his graduate research focused on

0:01:35.570,0:01:40.760 the brain mechanisms underlying alcohol

0:01:37.670,0:01:42.710 induced memory blackouts he completed a

0:01:40.760,0:01:44.210 two-year post doctoral fellowship in the

0:01:42.710,0:01:46.310 Department of Psychiatry at Duke

0:01:44.210,0:01:48.080 University Medical Center in 2001 and

0:01:46.310,0:01:50.210 then served as a research assistant

0:01:48.080,0:01:52.640 professor in the department until 2008

0:01:50.210,0:01:55.159 he co-wrote the online alcohol

0:01:52.640,0:01:56.990 prevention course alcohol edu which has

0:01:55.159,0:01:59.630 been completed by several million high

0:01:56.990,0:02:02.600 school and college students to date he

0:01:59.630,0:02:04.729 joined an AI Triple A in 2008 and served

0:02:02.600,0:02:05.960 as the program director for underage and

0:02:04.729,0:02:07.970 college drinking research in the

0:02:05.960,0:02:12.170 division division of Epidemiology and 0:02:07.970,0:02:13.579 Prevention Research until 22 2015 since

0:02:12.170,0:02:15.250 then he has served as a senior

0:02:13.579,0:02:17.950 scientific adviser to the director

0:02:15.250,0:02:19.930 dr. Jorge coupe dr. white is an author

0:02:17.950,0:02:22.210 of more than 60 manuscripts and book

0:02:19.930,0:02:23.770 chapters as well as three books two of

0:02:22.210,0:02:25.450 which are about adolescent development

0:02:23.770,0:02:27.190 and has delivered hundreds of

0:02:25.450,0:02:29.950 presentations about alcohol in the brain

0:02:27.190,0:02:40.300 to diverse audiences dr. white I now

0:02:29.950,0:02:42.430 turn the webinar over to you okay thank

0:02:40.300,0:02:45.160 you Cassie hey everybody this is Erin

0:02:42.430,0:02:47.950 white at ni triple a so glad that you're

0:02:45.160,0:02:49.390 all joining us today I have about an

0:02:47.950,0:02:51.760 hour of your time I'd like to spend

0:02:49.390,0:02:54.370 about 40 minutes giving you an update

0:02:51.760,0:02:57.850 about all things alcohol and then leave

0:02:54.370,0:03:00.310

time for questions so what I'd like to

0:02:57.850,0:03:02.530 accomplish today is to basically give

0:03:00.310,0:03:05.230 you an overview of where things stand

0:03:02.530,0:03:07.750 regarding the epidemiology of alcohol

0:03:05.230,0:03:09.400 use how many people are drinking how

0:03:07.750,0:03:11.380 much they're drinking how many people

0:03:09.400,0:03:13.690 have alcohol use disorders I want to

0:03:11.380,0:03:17.290 talk about some very interesting trends

0:03:13.690,0:03:19.480 with regard to alcohol particularly with

0:03:17.290,0:03:21.160 regard to alcohol and women we're

0:03:19.480,0:03:23.410 learning a lot about alcohol women's

0:03:21.160,0:03:24.610 health and I want to talk about some of

0:03:23.410,0:03:27.940 the interesting things that are

0:03:24.610,0:03:29.950 happening in that domain and then of

0:03:27.940,0:03:31.810 course I'll talk a little bit about how

0:03:29.950,0:03:34.950 alcohol interacts with opioids I think

0:03:31.810,0:03:39.040 it's important to understand just how

0:03:34.950,0:03:41.620 common alcohol plays a role in opioid 0:03:39.040,0:03:43.690 overdose deaths and why that occurs so

0:03:41.620,0:03:46.209 you'll see in the slides that that I'll

0:03:43.690,0:03:48.250 show you there's tons of data I'm not

0:03:46.209,0:03:50.350 going to go through all of the

0:03:48.250,0:03:52.840 statistics but because you'll have these

0:03:50.350,0:03:54.730 slides I wanted you to have all of the

0:03:52.840,0:04:00.150 stats in case you ever want to go back

0:03:54.730,0:04:00.150 and use them as a reference so briefly

0:04:03.570,0:04:11.350 briefly there we go so here's a snapshot

0:04:09.220,0:04:15.820 from the National Survey on drug use and

0:04:11.350,0:04:18.220 health from 2017 to give you a sense of

0:04:15.820,0:04:21.310 just how much people are drinking in the

0:04:18.220,0:04:23.680 u.s. about 52% of the population 12 and

0:04:21.310,0:04:25.570 older drinks each month and about half

0:04:23.680,0:04:28.030 of those people engage in binge drinking

0:04:25.570,0:04:29.350 which as you know is defined as having a

0:04:28.030,0:04:31.840 for more drinks on tonight if you're a 0:04:29.350,0:04:34.660 woman or five or more drinks of the

0:04:31.840,0:04:35.980 night if you're a man and so you know

0:04:34.660,0:04:37.540 about half the population twelve or

0:04:35.980,0:04:40.690 older drinks and half of them binge

0:04:37.540,0:04:43.240 interestingly if you look at drinkers

0:04:40.690,0:04:46.630 and you ask the question what percentage

0:04:43.240,0:04:48.130 of drinkers drink you know what

0:04:46.630,0:04:50.740 percentage of alcohol it turns out about

0:04:48.130,0:04:53.919 10% of drinkers drinking the majority of

0:04:50.740,0:04:56.550 the alcohol over 60% and about 10% of

0:04:53.919,0:04:58.960 drinkers account for the majority of

0:04:56.550,0:05:02.760 alcohol use disorder cases you know

0:04:58.960,0:05:05.380 again about about 60% and so it's it's a

0:05:02.760,0:05:07.990 lots of people drink in the u.s. the

0:05:05.380,0:05:09.910 problems are generally concentrated in a

0:05:07.990,0:05:13.300 relatively small percentage of those

0:05:09.910,0:05:14.770 people who do drink again more numbers

0:05:13.300,0:05:17.410

about fourteen and a half million people

0:05:14.770,0:05:20.160 in the US have an alcohol use disorder

0:05:17.410,0:05:22.720 and really an alcohol use disorder

0:05:20.160,0:05:25.180 essentially means that you're drinking

0:05:22.720,0:05:27.280 in a way that it's causing problems in

0:05:25.180,0:05:28.900 your life but you continue to drink and

0:05:27.280,0:05:30.610 you have difficulty cutting down or

0:05:28.900,0:05:32.560 stopping and more or less you're stuck

0:05:30.610,0:05:34.660 in a cycle where you drink to

0:05:32.560,0:05:36.580 intoxication it wears off and you feel

0:05:34.660,0:05:38.410 bad and then you start thinking about

0:05:36.580,0:05:41.080 when you can drink again and then you

0:05:38.410,0:05:44.850 just repeat the cycle that's about 1 in

0:05:41.080,0:05:47.530 20 people in the u.s. aged 12 and older

0:05:44.850,0:05:50.260 as I'll show you in a minute emergency

0:05:47.530,0:05:52.390 department visits related to alcohol are

0:05:50.260,0:05:54.550 increasing and you've got about 5

0:05:52.390,0:05:56.669 million cases a year where somebody

0:05:54.550,0:05:59.080 shows up at an emergency department and

0:05:56.669,0:06:01.390 the reason they're there involves

0:05:59.080,0:06:02.830 alcohol might not be dude alcohol it

0:06:01.390,0:06:05.169 could be that your leg is broken

0:06:02.830,0:06:06.640 but you also were drinking and you fell

0:06:05.169,0:06:09.550 because you were drinking so the alcohol

0:06:06.640,0:06:11.590 contributes the number of deaths in the

0:06:09.550,0:06:13.060 u.s. is an interesting statistic we

0:06:11.590,0:06:15.310 don't really know how many people died

0:06:13.060,0:06:16.390 from alcohol in the US the most common

0:06:15.310,0:06:17.800 number you'll hear is eighty eight

0:06:16.390,0:06:20.140 thousand four hundred and twenty-four

0:06:17.800,0:06:22.840 and that comes from an analysis done by

0:06:20.140,0:06:25.570 the CDC using data from death

0:06:22.840,0:06:27.820 certificates between 2006 and 2010 and

0:06:25.570,0:06:29.410 then they make assumptions about the

0:06:27.820,0:06:32.140 contribution of alcohol to deaths from

0:06:29.410,0:06:33.940 other things and add those in for

0:06:32.140,0:06:35.890 instance I think 15 percent of deaths

0:06:33.940,0:06:38.260 from epilepsy are considered to be

0:06:35.890,0:06:40.419 alcohol involved if you look at death

0:06:38.260,0:06:41.830 certificates only it's about seventy

0:06:40.419,0:06:43.720 thousand deaths a year

0:06:41.830,0:06:46.150 but we really just don't have a handle

0:06:43.720,0:06:49.990 on how many deaths alcohol contributes

0:06:46.150,0:06:52.150 due it's at least 70,000 probably much

0:06:49.990,0:06:54.220 more than that

0:06:52.150,0:06:55.810 similarly with the cost I mean we can we

0:06:54.220,0:06:58.510 can estimate the cost but we don't know

0:06:55.810,0:06:59.980 for sure but the CDC estimates the cost

0:06:58.510,0:07:02.320 at about two hundred and forty-nine

0:06:59.980,0:07:04.170 billion dollars a year and and the

0:07:02.320,0:07:08.620 majority of that I think it's like 75%

0:07:04.170,0:07:11.410 is due to workplace related things lost

0:07:08.620,0:07:13.330

productivity in particular so a lot of

0:07:11.410,0:07:16.270 people drink we've got a lot of people

0:07:13.330,0:07:18.400 who struggle with their drinking quite a

0:07:16.270,0:07:23.770 few people die every year and it's

0:07:18.400,0:07:27.010 expensive for the country so alcohol use

0:07:23.770,0:07:30.940 is increasing in the US if if we look at

0:07:27.010,0:07:33.340 data from several surveys this is a

0:07:30.940,0:07:36.490 study these these data are from a study

0:07:33.340,0:07:38.410 in which the authors included data from

0:07:36.490,0:07:40.690 six national surveys and just threw it

0:07:38.410,0:07:42.400 all in two analyses and and came out

0:07:40.690,0:07:44.860 with an estimate that included all of

0:07:42.400,0:07:46.960 those data sets and this is a very busy

0:07:44.860,0:07:48.400 slide but I want to highlight I want to

0:07:46.960,0:07:49.780 highlight something for you if I can do

0:07:48.400,0:07:52.390 that with this fancy technology there we

0:07:49.780,0:07:54.490 go so what you'll see is this line right

0:07:52.390,0:07:56.830 here this is the percentage of people in 0:07:54.490,0:07:59.290 the US that drink in a given year and

0:07:56.830,0:08:02.320 you can see that it is increasing but

0:07:59.290,0:08:03.910 it's not really changing for men most of

0:08:02.320,0:08:06.190 the increase in alcohol use in the US

0:08:03.910,0:08:08.110 has been driven by women similarly

0:08:06.190,0:08:10.900 similarly if you look at binge drinking

0:08:08.110,0:08:12.430 in the past year there's an increase in

0:08:10.900,0:08:15.850 you know among adults in the u.s.

0:08:12.430,0:08:19.090 between 2000 and 2015 is roughly the

0:08:15.850,0:08:21.160 eighth the the year time range but again

0:08:19.090,0:08:24.910 it's really not increasing for men most

0:08:21.160,0:08:26.590 of it is an increase and for women the

0:08:24.910,0:08:29.160 biggest increase is in drinking in the

0:08:26.590,0:08:31.240 last 15 years have been among women

0:08:29.160,0:08:34.419 older people particularly the baby

0:08:31.240,0:08:37.060 boomer generation and African American

0:08:34.419,0:08:40.719 men and you can see that over here in 0:08:37.060,0:08:43.830 this table so that's sort of that sort

0:08:40.719,0:08:46.870 of sets the stage to tell you you know

0:08:43.830,0:08:50.010 the prevalence of drinking and sort of

0:08:46.870,0:08:50.010 where things are moving

0:08:52.829,0:09:00.910 okay so this slide shows again changes

0:08:58.570,0:09:02.680 in alcohol use in women relative demand

0:09:00.910,0:09:04.630 and I like this slide because I think it

0:09:02.680,0:09:07.149 captures the phenomenon nicely what's

0:09:04.630,0:09:09.519 happening is as you'll see on the left

0:09:07.149,0:09:12.970 there that's alcohol use in the past 30

0:09:09.519,0:09:15.790 days and the top line is males and the

0:09:12.970,0:09:17.470 bottom line is females and basically

0:09:15.790,0:09:19.630 what you see is that alcohol use among

0:09:17.470,0:09:22.779 males has declined just a little bit in

0:09:19.630,0:09:24.940 the past you know 30 day 30 days in this

0:09:22.779,0:09:26.620 time period but it increases for women

0:09:24.940,0:09:29.800 and if you look at the number of days

0:09:26.620,0:09:31.209

per month that people drink it's coming

0:09:29.800,0:09:33.430 down a little bit for men and it's

0:09:31.209,0:09:35.740 increasing for women and so all of this

0:09:33.430,0:09:38.800 combined is leading to what is being

0:09:35.740,0:09:42.100 referred to as narrowing gender gaps and

0:09:38.800,0:09:44.199 alcohol use essentially men are

0:09:42.100,0:09:48.220 decreasing a little bit and women are

0:09:44.199,0:09:49.660 increasing this is for adults and and

0:09:48.220,0:09:52.300 this is troubling and I'll tell you why

0:09:49.660,0:09:53.560 it's troubling in a moment but but

0:09:52.300,0:09:55.329 that's what's happening there's really

0:09:53.560,0:09:58.230 been a real increase now call use for

0:09:55.329,0:10:00.130 women and a decline you know a

0:09:58.230,0:10:07.810 relatively flat line

0:10:00.130,0:10:09.850 for males okay this slide let me explain

0:10:07.810,0:10:11.440 this to you I really wanted to include

0:10:09.850,0:10:13.959 this even though it's very busy but this

0:10:11.440,0:10:16.000 is a neat slide what the World Health 0:10:13.959,0:10:21.339 Organization did was they plotted in

0:10:16.000,0:10:23.560 this graph the ratio of alcohol use for

0:10:21.339,0:10:26.589 women and men in various countries

0:10:23.560,0:10:30.339 across the planet and what you see where

0:10:26.589,0:10:36.970 that arrow is pointing to the US it is

0:10:30.339,0:10:39.490 close to get my pointer back here this

0:10:36.970,0:10:41.740 line here means there's an equal

0:10:39.490,0:10:43.750 distribution of alcohol use for men and

0:10:41.740,0:10:45.819 women so when a country is close to this

0:10:43.750,0:10:48.819 line it means that men and women are

0:10:45.819,0:10:51.250 roughly similar in their alcohol use and

0:10:48.819,0:10:53.740 the United States is getting closer and

0:10:51.250,0:10:55.120 closer to this line and it seems that

0:10:53.740,0:10:58.300 it's only a matter of time before we end

0:10:55.120,0:11:01.060 up on that line and we have a equal

0:10:58.300,0:11:03.190 level of use between men and women the

0:11:01.060,0:11:05.889 way we're going and this is a new 0:11:03.190,0:11:09.249 development for us because historically

0:11:05.889,0:11:11.499 going back to Prohibition time men drank

0:11:09.249,0:11:14.259 way more than women and most of the

0:11:11.499,0:11:16.779 problems associated with alcohol came

0:11:14.259,0:11:19.629 from drinking by men and over the last

0:11:16.779,0:11:23.410 century in the US and across the world

0:11:19.629,0:11:25.299 actually those drinking patterns have

0:11:23.410,0:11:27.669 narrowed and now men and women are are

0:11:25.299,0:11:32.559 much more similar than they ever have

0:11:27.669,0:11:34.929 been and with that comes an increase in

0:11:32.559,0:11:39.160 consequences for women and so this slide

0:11:34.929,0:11:41.290 is shows data regarding not the number

0:11:39.160,0:11:43.869 of visits to an emergency room each year

0:11:41.290,0:11:46.809 that are alcohol-related between 2006

0:11:43.869,0:11:48.339 and 2014 and it just you know without

0:11:46.809,0:11:50.230 without going through each of those

0:11:48.339,0:11:52.179 lines basically it's gone up it's been

0:11:50.230,0:11:54.759

about a 62 percent increase in the

0:11:52.179,0:11:58.419 number of alcohol-related edie visits

0:11:54.759,0:12:00.699 between 2006 and 2014 and that ends up

0:11:58.419,0:12:03.519 being about a like a 50% increase in the

0:12:00.699,0:12:05.529 rate of those visits the rate of the the

0:12:03.519,0:12:08.829 visits are increasing faster for women

0:12:05.529,0:12:10.749 and for older drinkers including people

0:12:08.829,0:12:12.699 in the baby boomer generation so the

0:12:10.749,0:12:15.459 increases in drinking that we're seeing

0:12:12.699,0:12:20.739 are mapping on to the increases in harms

0:12:15.459,0:12:22.809 that we're seeing there is some good

0:12:20.739,0:12:24.819 news in all of this and and that and

0:12:22.809,0:12:28.269 that is that alcohol use by teens is

0:12:24.819,0:12:30.790 coming down alcohol use in the under age

0:12:28.269,0:12:33.369 category 12 to 20 overall is coming down

0:12:30.790,0:12:34.929 this shows you a tenth and twelfth

0:12:33.369,0:12:36.790 graders from the monitoring the future

0:12:34.929,0:12:38.290 study and what you can see is in this 0:12:36.790,0:12:40.269 age range and I'm sorry this is this

0:12:38.290,0:12:43.779 range of time a ten-year period between

0:12:40.269,0:12:46.899 2008 and 2018 there was about a about a

0:12:43.779,0:12:50.860 third decline in about a 33 percent

0:12:46.899,0:12:54.369 decline in an alcohol use among among

0:12:50.860,0:12:57.009 our students which is great news now

0:12:54.369,0:12:59.559 interestingly just like with adults

0:12:57.009,0:13:01.629 there's narrowing gender gaps but it's a

0:12:59.559,0:13:04.179 different pattern whereas with adults

0:13:01.629,0:13:06.669 drinking is coming down among males and

0:13:04.179,0:13:08.850 going up among women among our

0:13:06.669,0:13:11.139 adolescents drinking is coming down

0:13:08.850,0:13:13.839 among both males and females but it's

0:13:11.139,0:13:16.059 not coming down near as fast among women

0:13:13.839,0:13:19.070 as among girls as it is among young

0:13:16.059,0:13:22.160 males and so as you can see here

0:13:19.070,0:13:24.440 you know if we use this over here is the 0:13:22.160,0:13:26.870 percent of 12th graders who engaged in

0:13:24.440,0:13:29.630 binge drinking and in the last two weeks

0:13:26.870,0:13:31.190 you can see that starting in 1975 there

0:13:29.630,0:13:34.300 was a about a you know males are about

0:13:31.190,0:13:36.980 twice as likely to do that and now in

0:13:34.300,0:13:39.319 2016 here males and females are just

0:13:36.980,0:13:41.269 about even and the same thing with

0:13:39.319,0:13:44.240 drinking on a daily basis

0:13:41.269,0:13:45.589 males have really plummeted and females

0:13:44.240,0:13:48.380 have just not really they've gone down

0:13:45.589,0:13:51.079 but just not nearly as much and so again

0:13:48.380,0:13:52.519 for both adults and for adolescents

0:13:51.079,0:13:55.880 there are these narrowing gender gaps

0:13:52.519,0:13:59.300 but for slightly different reasons I'll

0:13:55.880,0:14:01.790 tell you this the it is good news but

0:13:59.300,0:14:04.430 it's not the best possible news because

0:14:01.790,0:14:06.860 as I'll show you while the drinking is

0:14:04.430,0:14:09.199

declining among our kids there might be

0:14:06.860,0:14:11.240 some psychosocial reasons for that that

0:14:09.199,0:14:13.370 are not particularly healthy our kids

0:14:11.240,0:14:15.290 are isolating more they're not spending

0:14:13.370,0:14:17.269 as much time socializing or being around

0:14:15.290,0:14:20.600 other people and that means they have

0:14:17.269,0:14:21.980 less fewer opportunities to drink but it

0:14:20.600,0:14:24.680 also means that they're they're not

0:14:21.980,0:14:27.560 getting their needs met and healthy ways

0:14:24.680,0:14:29.660 through socializing and with that is

0:14:27.560,0:14:31.610 coming an increase and adil and anxiety

0:14:29.660,0:14:34.490 and depression among these kids so the

0:14:31.610,0:14:36.290 decline in drinking is good news but

0:14:34.490,0:14:38.750 it's not necessarily because they're all

0:14:36.290,0:14:40.579 so happy and healthy that they just have

0:14:38.750,0:14:45.949 chosen not to drink there are other

0:14:40.579,0:14:47.269 things going on here so there's one of

0:14:45.949,0:14:49.760 the one of the reasons that this is so 0:14:47.269,0:14:54.079 concerning to us these changes in an

0:14:49.760,0:14:56.630 alcohol use by by young by women adult

0:14:54.079,0:15:00.620 women and adolescent females is that

0:14:56.630,0:15:02.870 we're simultaneously learning about some

0:15:00.620,0:15:05.480 of the negative effects that alcohol has

0:15:02.870,0:15:07.850 on women that are different than men

0:15:05.480,0:15:10.579 women just seem to be for some reason

0:15:07.850,0:15:13.459 that we just don't know more likely to

0:15:10.579,0:15:17.000 manifest a variety of alcohol-related

0:15:13.459,0:15:20.569 problems than males now as you all know

0:15:17.000,0:15:22.009 the male and female body is is different

0:15:20.569,0:15:25.069 in important ways that affect how

0:15:22.009,0:15:26.829 alcohol impacts the body if you take a

0:15:25.069,0:15:29.689 male and a female of the same weight

0:15:26.829,0:15:31.399 females tend to have less water in the

0:15:29.689,0:15:32.870 body they tend to store more fat and

0:15:31.399,0:15:34.940 have less free flow 0:15:32.870,0:15:37.640 water and that means with every drink

0:15:34.940,0:15:40.279 you have even if you if a woman weighs

0:15:37.640,0:15:41.960 the same as a man every drink she has is

0:15:40.279,0:15:43.820 going to produce a slightly higher blood

0:15:41.960,0:15:45.650 alcohol level than in the male that

0:15:43.820,0:15:47.990 means even if you drink the same amount

0:15:45.650,0:15:50.089 and weigh the same you're bathing your

0:15:47.990,0:15:52.190 body tissues and more alcohol so that

0:15:50.089,0:15:54.350 might contribute to and probably does

0:15:52.190,0:15:57.020 contribute to some of these negative

0:15:54.350,0:15:59.029 outcomes but I can't explain you know

0:15:57.020,0:16:01.400 many of them for instance for whatever

0:15:59.029,0:16:03.800 reason females tend to be more

0:16:01.400,0:16:05.660 susceptible to hangovers and this even

0:16:03.800,0:16:08.300 happens if you do lab studies where you

0:16:05.660,0:16:11.390 put the alcohol into the veins so you're

0:16:08.300,0:16:12.560 giving exactly the same you know you're

0:16:11.390,0:16:13.850

arriving at exactly the same

0:16:12.560,0:16:16.670 blood-alcohol level in the male and

0:16:13.850,0:16:18.529 female the female the next day has worse

0:16:16.670,0:16:20.990 hangover symptoms females are more

0:16:18.529,0:16:23.870 likely to blackout you know memory

0:16:20.990,0:16:25.810 blackouts liver disease progresses more

0:16:23.870,0:16:27.860 quickly in women brain atrophy

0:16:25.810,0:16:30.800 progresses more quickly cognitive

0:16:27.860,0:16:33.140 deficits the cardiovascular effects of

0:16:30.800,0:16:35.420 alcohol progressed more quickly in women

0:16:33.140,0:16:36.770 AUD progresses more quickly in women

0:16:35.420,0:16:38.660 this is these are all phenomenon that

0:16:36.770,0:16:41.150 fall under the category of what's been

0:16:38.660,0:16:43.610 called telescoping where women just once

0:16:41.150,0:16:45.709 a problem develops it develops more

0:16:43.610,0:16:48.589 quickly and then certain cancers you've

0:16:45.709,0:16:50.630 all heard the the news the research over

0:16:48.589,0:16:53.180 the last couple of years suggesting that 0:16:50.630,0:16:55.670 you know women might be at elevated risk

0:16:53.180,0:16:57.680 of breast cancer even with a you know a

0:16:55.670,0:17:01.190 glass of wine a day and of course all of

0:16:57.680,0:17:03.069 that research is still ongoing and and

0:17:01.190,0:17:05.780 the jury is still out about exactly

0:17:03.069,0:17:11.360 where the risk begins and how big the

0:17:05.780,0:17:13.189 risk is but it is concerning to us so I

0:17:11.360,0:17:15.559 want to I want to explore something with

0:17:13.189,0:17:17.480 you that I think you'll appreciate once

0:17:15.559,0:17:20.059 we get through it and that is I want to

0:17:17.480,0:17:22.429 talk about why it is that people drink

0:17:20.059,0:17:25.100 alcohol and then come back to these

0:17:22.429,0:17:27.020 these sex differences but what why is it

0:17:25.100,0:17:30.200 that we drink alcohol you know why is it

0:17:27.020,0:17:32.870 the people do any recreational drug well

0:17:30.200,0:17:35.360 there's two basic reasons one is to

0:17:32.870,0:17:37.910 produce a positive state because it 0:17:35.360,0:17:40.250 feels good basically and that's referred

0:17:37.910,0:17:42.080 to as positive reinforcement and that's

0:17:40.250,0:17:44.330 generally what we think about when we

0:17:42.080,0:17:46.220 think about people using alcohol and

0:17:44.330,0:17:48.409 other drugs we tend to think

0:17:46.220,0:17:50.450 do drugs because they want to feel good

0:17:48.409,0:17:53.030 they want to they want to get high they

0:17:50.450,0:17:56.179 want to you know have euphoria and some

0:17:53.030,0:17:58.250 people do and I've got some ads in here

0:17:56.179,0:18:00.799 just to sort of capture the motivation

0:17:58.250,0:18:02.450 that people have to drink to do

0:18:00.799,0:18:04.580 substances so experiments and pleasure

0:18:02.450,0:18:08.539 you know many people drink or do other

0:18:04.580,0:18:10.370 drugs to feel pleasure some people or

0:18:08.539,0:18:10.880 maybe the same person at a different

0:18:10.370,0:18:14.000 time

0:18:10.880,0:18:17.270 does substances to fix a negative state

0:18:14.000,0:18:20.780

to basically feel better not to add

0:18:17.270,0:18:25.760 euphoria add to your pleasure but to fix

0:18:20.780,0:18:27.980 feeling bad now it turns out that your

0:18:25.760,0:18:30.860 motivation for drinking or doing other

0:18:27.980,0:18:32.539 drugs whether it's for positive

0:18:30.860,0:18:34.789 reinforcement or negative reinforcement

0:18:32.539,0:18:37.130 is prognostic it tells us something

0:18:34.789,0:18:39.460 about where your relationship with this

0:18:37.130,0:18:43.490 drug may go in the future and

0:18:39.460,0:18:46.250 specifically people who who drink or do

0:18:43.490,0:18:49.130 other drugs to cope or for negative

0:18:46.250,0:18:52.640 reinforcement are much more likely to

0:18:49.130,0:18:54.710 develop problems with a substance and so

0:18:52.640,0:18:57.530 you know people who who drink to enhance

0:18:54.710,0:18:59.780 or to for positive reinforcement you

0:18:57.530,0:19:01.940 know they they might drink more heavily

0:18:59.780,0:19:03.890 when they drink but they tend to drink

0:19:01.940,0:19:06.320 less often whereas people who drink to 0:19:03.890,0:19:08.200 cope tend to drink less heavily but more

0:19:06.320,0:19:10.730 often and it's sort of a slow grind

0:19:08.200,0:19:13.280 toward an alcohol use disorder as they

0:19:10.730,0:19:15.559 try to cope with their problems with

0:19:13.280,0:19:17.090 alcohol and tolerance develops to the

0:19:15.559,0:19:19.490 alcohol so they have to drink more and

0:19:17.090,0:19:22.730 they end up locked in a cycle where if

0:19:19.490,0:19:24.890 they stop drinking they feel much worse

0:19:22.730,0:19:27.380 than when they started and so they keep

0:19:24.890,0:19:28.909 coming back and and so that you know

0:19:27.380,0:19:32.720 that if they're these motives are

0:19:28.909,0:19:35.630 important for predicting the likelihood

0:19:32.720,0:19:42.169 of certain kinds of alcohol related

0:19:35.630,0:19:43.820 harms and it turns out that several

0:19:42.169,0:19:46.370 studies in the last few years including

0:19:43.820,0:19:49.460 this one that just came out suggest that

0:19:46.370,0:19:52.400 females beginning in adolescents are 0:19:49.460,0:19:55.070 more likely to be drawn to alcohol for

0:19:52.400,0:19:59.059 the negative reinforcement so to cope

0:19:55.070,0:20:00.680 with social anxiety or stress to

0:19:59.059,0:20:03.350 basically

0:20:00.680,0:20:05.780 to for coping motives whereas young

0:20:03.350,0:20:09.170 males are more likely to to engage in

0:20:05.780,0:20:10.490 this sort of stereotypical alcohol use

0:20:09.170,0:20:12.680 that we think of when we think of young

0:20:10.490,0:20:14.960 people they go out and party they drink

0:20:12.680,0:20:17.260 a lot in an evening and certainly they

0:20:14.960,0:20:20.360 can suffer all kinds of harms from that

0:20:17.260,0:20:23.260 but drinking for negative reinforcement

0:20:20.360,0:20:25.520 increases the likelihood that over time

0:20:23.260,0:20:27.680 somebody will develop a serious problem

0:20:25.520,0:20:29.750 with alcohol and so we're learning a lot

0:20:27.680,0:20:32.030 about how when you enter adolescence at

0:20:29.750,0:20:35.930 age 10 your brains are basically the

0:20:32.030,0:20:37.310

same very similar but when we leave the

0:20:35.930,0:20:38.750 end of adolescence you know we come out

0:20:37.310,0:20:42.140 of the second decade of life our brains

0:20:38.750,0:20:44.060 are wired in in important ways that are

0:20:42.140,0:20:47.660 different between males and females and

0:20:44.060,0:20:50.990 for some reason the female brain sort of

0:20:47.660,0:20:52.700 creates a scenario where negative

0:20:50.990,0:20:55.490 reinforcement from alcohol or other

0:20:52.700,0:20:57.440 drugs is highly is more valued than it

0:20:55.490,0:21:00.080 is in males this is a statistical

0:20:57.440,0:21:02.660 phenomenon it's not every woman or man

0:21:00.080,0:21:04.040 it's you know it's it's a statistical

0:21:02.660,0:21:06.350 phenomenon but women are just more

0:21:04.040,0:21:08.710 likely to be drawn to alcohol for those

0:21:06.350,0:21:12.110 coping motives and that is concerning

0:21:08.710,0:21:15.620 given what we know about what those

0:21:12.110,0:21:17.810 coping motives predict and it's also

0:21:15.620,0:21:20.990 concerning given that if we if we go 0:21:17.810,0:21:23.090 back to our adolescent sample it turns

0:21:20.990,0:21:25.810 out that over the last you know 10 years

0:21:23.090,0:21:29.560 or so there's been a very big increase

0:21:25.810,0:21:32.480 and-and-and caught an emotional

0:21:29.560,0:21:34.580 distress among our kids for instance

0:21:32.480,0:21:37.970 these data show a 37 percent increase in

0:21:34.580,0:21:39.560 in kids who report who had a major

0:21:37.970,0:21:41.480 depressive episode in the past year and

0:21:39.560,0:21:44.750 as you can see in the graph the increase

0:21:41.480,0:21:46.490 has been bigger much bigger for for

0:21:44.750,0:21:48.620 females than males and females already

0:21:46.490,0:21:50.510 have a higher likelihood of having

0:21:48.620,0:21:54.950 issues with anxiety and depression in

0:21:50.510,0:21:56.660 males so this concerns us because while

0:21:54.950,0:21:58.910 we're seeing declines in drinking among

0:21:56.660,0:22:01.910 teens the declines are much bigger for

0:21:58.910,0:22:03.680 boys than for girls and we know that 0:22:01.910,0:22:06.080 there's been this increase in anxiety

0:22:03.680,0:22:10.670 and depression among kids particularly

0:22:06.080,0:22:12.500 among females relative to boys and we

0:22:10.670,0:22:16.280 know that all of that can set our

0:22:12.500,0:22:17.600 young girls up for for drinking for

0:22:16.280,0:22:21.500 negative reinforcement and then

0:22:17.600,0:22:23.420 developing problems as a result so we

0:22:21.500,0:22:26.330 could end up in a situation where fewer

0:22:23.420,0:22:29.300 young women are drinking but more of

0:22:26.330,0:22:31.970 them end up developing problems as a

0:22:29.300,0:22:34.310 result of the increases and and in

0:22:31.970,0:22:37.030 depression and anxiety which would give

0:22:34.310,0:22:42.380 rise to drinking motives that are

0:22:37.030,0:22:45.800 designed to help cope so and this has

0:22:42.380,0:22:49.550 already been shown with marijuana this

0:22:45.800,0:22:53.000 is a study that came out just this year

0:22:49.550,0:22:55.760 looking at reasons why teens give for

0:22:53.000,0:22:59.020

smoking marijuana and what you see is

0:22:55.760,0:23:02.060 that in this very busy slide is that the

0:22:59.020,0:23:04.100 percentage of teens who say they smoke

0:23:02.060,0:23:07.700 marijuana to cope has gone up

0:23:04.100,0:23:10.790 significantly over time and so again if

0:23:07.700,0:23:13.760 this if this happens with alcohol we may

0:23:10.790,0:23:15.680 end up seeing an increase in the

0:23:13.760,0:23:18.500 prevalence of alcohol use disorder among

0:23:15.680,0:23:22.400 young people even as the percentage of

0:23:18.500,0:23:24.350 teens who drink comes down okay we

0:23:22.400,0:23:28.340 switch gears a little bit here and talk

0:23:24.350,0:23:30.830 for a few minutes about alcohol and an

0:23:28.340,0:23:32.510 overdose I mean there's you know so I've

0:23:30.830,0:23:33.680 been focused a lot more on alcohol and

0:23:32.510,0:23:34.940 chronic drinking and developing an

0:23:33.680,0:23:37.220 alcohol use disorder I want to talk

0:23:34.940,0:23:40.340 about acute intoxication with alcohol

0:23:37.220,0:23:42.050 the dangers that it poses and in essence 0:23:40.340,0:23:44.600 alcohol has an arrow what we call

0:23:42.050,0:23:48.170 therapeutic index the therapeutic index

0:23:44.600,0:23:51.830 is a ratio of the toxic dose of a drug

0:23:48.170,0:23:53.630 for half of people over the effective

0:23:51.830,0:23:55.220 dose for about half of people and you

0:23:53.630,0:23:57.470 want that to be a big number you want

0:23:55.220,0:23:59.750 your toxic dose to be way higher than

0:23:57.470,0:24:03.980 your effective dose you want to go into

0:23:59.750,0:24:06.770 CVS buy aspirin go to your car take

0:24:03.980,0:24:09.590 three and and know that you're probably

0:24:06.770,0:24:11.180 not gonna die you want that toxic dose

0:24:09.590,0:24:13.880 to be so much higher than the effective

0:24:11.180,0:24:15.650 dose that you have a safe window for

0:24:13.880,0:24:18.320 error and it turns out that with alcohol

0:24:15.650,0:24:20.360 and and opioids as we'll see

0:24:18.320,0:24:22.520 the therapeutic index is fairly small

0:24:20.360,0:24:24.200 the toxic dose is not that much bigger

0:24:22.520,0:24:26.310 than the effective dose so if we

0:24:24.200,0:24:29.730 consider that a point oh

0:24:26.310,0:24:32.790 five BAC would be sort of an effective

0:24:29.730,0:24:34.740 dose if people are looking for you know

0:24:32.790,0:24:36.510 relaxation or that's--it's that's what

0:24:34.740,0:24:39.360 that's about what moderate consumption

0:24:36.510,0:24:42.390 would produce for a for a male at two

0:24:39.360,0:24:44.400 drinks the the toxic dose for humans

0:24:42.390,0:24:47.580 where about half of people would die

0:24:44.400,0:24:49.320 seems to be around 0.35 and as you can

0:24:47.580,0:24:50.760 see on the right side there are lots of

0:24:49.320,0:24:52.920 these are all young people college

0:24:50.760,0:24:55.800 students who died and you can see the

0:24:52.920,0:24:58.380 range of their estimated BAC s at the

0:24:55.800,0:25:01.200 time of death and so you've got a

0:24:58.380,0:25:03.810 therapist index of about seven which

0:25:01.200,0:25:05.910 means that if you accidentally drank

0:25:03.810,0:25:08.070

seven times more than the dose that you

0:25:05.910,0:25:10.670 normally drink to get the the effect you

0:25:08.070,0:25:13.770 want you could die that's frightening

0:25:10.670,0:25:16.770 because it is it is possible to do that

0:25:13.770,0:25:18.270 and it does happen I mean if you're if

0:25:16.770,0:25:22.380 you're drinking out of a big red cup

0:25:18.270,0:25:24.960 that somebody's pouring spirits into you

0:25:22.380,0:25:27.150 could very easily you know get close to

0:25:24.960,0:25:29.610 that level or beyond so so the alcohol

0:25:27.150,0:25:33.780 can do that and the way that alcohol

0:25:29.610,0:25:35.670 does it is by shutting down these what

0:25:33.780,0:25:37.740 we call vital reflex centers in the

0:25:35.670,0:25:38.160 brain stem let me show you that in a

0:25:37.740,0:25:41.100 minute

0:25:38.160,0:25:43.170 so obviously opioids have narrow safety

0:25:41.100,0:25:46.290 margins too particularly with the new

0:25:43.170,0:25:49.710 synthetics that are coming out fentanyl

0:25:46.290,0:25:51.660 you know you those jars show you the 0:25:49.710,0:25:53.820 amount of a particular of the drug that

0:25:51.660,0:25:55.410 would it would take to kill you and you

0:25:53.820,0:25:57.420 can see in the fentanyl container I mean

0:25:55.410,0:25:59.190 you're looking at a couple specks well

0:25:57.420,0:26:00.950 there's something that's a foul you know

0:25:59.190,0:26:03.750 whatever it is five hundred times

0:26:00.950,0:26:06.660 stronger than that that has been

0:26:03.750,0:26:08.880 synthesized and so it doesn't take much

0:26:06.660,0:26:10.740 of this to kill you so this the

0:26:08.880,0:26:12.960 therapeutic index is going to be very

0:26:10.740,0:26:15.810 small with these drugs so alcohol

0:26:12.960,0:26:18.000 combined with these drugs is going to

0:26:15.810,0:26:20.220 shrink the safety margin even further

0:26:18.000,0:26:22.890 and it doesn't take a lot of alcohol as

0:26:20.220,0:26:24.630 I'll show you this is just a slide

0:26:22.890,0:26:26.910 showing you the sort of evolution of the

0:26:24.630,0:26:28.350 opioid crisis and I want to point out to
0:26:26.910,0:26:29.760 you that an estimated three hundred

0:26:28.350,0:26:32.490 ninety nine thousand people died from

0:26:29.760,0:26:34.380 opioid overdoses in this 18 year period

0:26:32.490,0:26:37.590 and about a million people died from

0:26:34.380,0:26:40.650 alcohol at least and so yes this is a

0:26:37.590,0:26:43.230 major crisis but let's

0:26:40.650,0:26:44.970 remember alcohol itself can kill and

0:26:43.230,0:26:46.980 does kill lots of people in the United

0:26:44.970,0:26:49.890 States the combination of the two is

0:26:46.980,0:26:51.900 particularly deadly and so what this

0:26:49.890,0:26:57.830 slide shows you is on the right hand

0:26:51.900,0:27:00.840 side you see some brain stuff and and

0:26:57.830,0:27:03.360 and what this is here is the brain stem

0:27:00.840,0:27:04.710 the very base of the brain you can see

0:27:03.360,0:27:06.660 it here and it's blown up that's the

0:27:04.710,0:27:08.610 base of your brain right near the bottom

0:27:06.660,0:27:10.380 of your skull this is about where the

0:27:08.610,0:27:12.300

bottom of your skull would be and then

0:27:10.380,0:27:14.460 the rest of spinal cord well these are

0:27:12.300,0:27:16.440 very primitive areas and what these

0:27:14.460,0:27:18.120 brain areas do is they keep you alive

0:27:16.440,0:27:19.380 you know something's got to keep your

0:27:18.120,0:27:21.510 heart beating something's got to keep

0:27:19.380,0:27:24.120 you breathing something's got to make

0:27:21.510,0:27:26.220 sure that you clear your airway if

0:27:24.120,0:27:28.470 something is blocking it these are the

0:27:26.220,0:27:30.840 same sorts of circuits that that also

0:27:28.470,0:27:34.170 help you sneeze and cough they're just

0:27:30.840,0:27:36.420 vital to our lives vital reflex centers

0:27:34.170,0:27:38.880 well alcohol can shut them off and

0:27:36.420,0:27:40.710 opioids shut them off and the

0:27:38.880,0:27:44.220 combination of the two shut them off

0:27:40.710,0:27:45.720 even easier and so you know you have too

0:27:44.220,0:27:47.970 much of the drug and suddenly you stop

0:27:45.720,0:27:51.150 breathing or you can't clear the airway 0:27:47.970,0:27:52.680 when you when something blocks it you

0:27:51.150,0:27:54.600 know that's what these drugs can do at

0:27:52.680,0:27:56.670 high enough levels and I want to show

0:27:54.600,0:27:58.620 you some the outcome of a fascinating

0:27:56.670,0:28:00.450 study that used fairly low doses of

0:27:58.620,0:28:05.160 these two to show that you don't need

0:28:00.450,0:28:10.340 much this is frightening all right let

0:28:05.160,0:28:12.110 me find my there we go okay so

0:28:10.340,0:28:16.350 researchers did a study where they took

0:28:12.110,0:28:19.830 it took a dozen young adults a dozen

0:28:16.350,0:28:21.960 elderly people and they gave them 20

0:28:19.830,0:28:24.690 milligrams of oxycodone which is you

0:28:21.960,0:28:27.630 know a pretty good dose of oxycodone ob4

0:28:24.690,0:28:32.460 I would imagine moderate pain monitors

0:28:27.630,0:28:34.020 to severe pain and and they measured

0:28:32.460,0:28:35.610 their ventilation you know their

0:28:34.020,0:28:38.280 breathing and then they gave them

0:28:35.610,0:28:40.860 alcohol the equivalent of basically like

0:28:38.280,0:28:44.250 a drink or two you know in their veins

0:28:40.860,0:28:47.370 over an hour and just that amount of

0:28:44.250,0:28:50.240 alcohol just a drink or two combined

0:28:47.370,0:28:54.490 with that 20 milligrams of oxycodone

0:28:50.240,0:28:58.170 caused a significant depression

0:28:54.490,0:29:01.660 in in in in breathing and respiration

0:28:58.170,0:29:04.510 all told it's almost a 50% decline and

0:29:01.660,0:29:07.330 the rate of breathing of exchanging the

0:29:04.510,0:29:10.600 gases in your lungs so the opioid

0:29:07.330,0:29:13.510 reduced by 28% alcohol added another 19%

0:29:10.600,0:29:16.060 that is frightening people in the study

0:29:13.510,0:29:18.400 had I think it's I'm gonna pronounce it

0:29:16.060,0:29:19.540 wrong ethnic events they had events

0:29:18.400,0:29:21.010 where they literally stopped breathing

0:29:19.540,0:29:23.290 and had to catch themselves and start

0:29:21.010,0:29:27.430 breathing it just doesn't take much so

0:29:23.290,0:29:29.110

we think that the estimate for for how

0:29:27.430,0:29:32.370 often alcohol contributes to opioid

0:29:29.110,0:29:35.500 overdose deaths is is is way

0:29:32.370,0:29:37.810 underestimated you know the death

0:29:35.500,0:29:41.020 certificates list alcohol and about 20%

0:29:37.810,0:29:42.670 of opioid overdose deaths but given that

0:29:41.020,0:29:46.960 we know that it doesn't take a lot of

0:29:42.670,0:29:49.060 alcohol to compound the problem with

0:29:46.960,0:29:51.960 brain stem suppression you know we

0:29:49.060,0:29:54.730 suspect that that alcohol is far more

0:29:51.960,0:29:59.230 commonly involved in these these

0:29:54.730,0:30:00.940 overdose deaths okay one of the one of

0:29:59.230,0:30:03.310 the things that we're working on here at

0:30:00.940,0:30:05.650 the Institute is finding better ways to

0:30:03.310,0:30:07.210 connect people to treatment because you

0:30:05.650,0:30:09.640 know one of the major barriers to

0:30:07.210,0:30:10.750 getting help is that people just don't

0:30:09.640,0:30:14.650 know what to do they don't know where to 0:30:10.750,0:30:16.450 go and so we created a something called

0:30:14.650,0:30:21.160 the treatment navigator which is now

0:30:16.450,0:30:24.700 online that helps people evaluate what

0:30:21.160,0:30:26.710 the treatment options are and and figure

0:30:24.700,0:30:30.280 out what to do and where to go we have

0:30:26.710,0:30:32.650 another resource called the rethinking

0:30:30.280,0:30:34.840 yeah called rethinking drinking which

0:30:32.650,0:30:37.030 basically helps people evaluate their

0:30:34.840,0:30:38.650 drinking and decide if they need help so

0:30:37.030,0:30:41.760 the combination of rethinking drinking

0:30:38.650,0:30:44.830 and this new treatment navigator we hope

0:30:41.760,0:30:47.710 will help people first evaluate whether

0:30:44.830,0:30:50.530 they need help and and then how to get

0:30:47.710,0:30:53.710 help or you could work on this with a

0:30:50.530,0:30:55.180 loved one or for a loved one but you

0:30:53.710,0:30:57.190 know very few people get treatment of

0:30:55.180,0:30:59.200 that 15 million people a year with an 0:30:57.190,0:31:01.360 alcohol use disorder fewer than one in

0:30:59.200,0:31:05.620 ten people get any kind of treatment at

0:31:01.360,0:31:07.600 all in a year and so you know I think we

0:31:05.620,0:31:09.580 think that we can improve that by

0:31:07.600,0:31:11.679 just working harder at connecting people

0:31:09.580,0:31:14.470 with the treatment they need if we do

0:31:11.679,0:31:16.780 that and we can catch alcohol use

0:31:14.470,0:31:19.360 disorders earlier and get people help

0:31:16.780,0:31:22.080 earlier we can minimize a lot of the

0:31:19.360,0:31:25.570 harm that occurs in their lives and also

0:31:22.080,0:31:28.210 reduce the burden to society of alcohol

0:31:25.570,0:31:29.830 use disorder so that's that's one of the

0:31:28.210,0:31:30.640 things we're really focused on here

0:31:29.830,0:31:33.760 let's see

0:31:30.640,0:31:35.980 so to summarize alcohol use including

0:31:33.760,0:31:37.500 binge drinking and alcohol-related IDI

0:31:35.980,0:31:40.809 visits are increasing in the u.s.

0:31:37.500,0:31:43.960

particularly among women and older

0:31:40.809,0:31:46.929 drinkers and by the way as the baby

0:31:43.960,0:31:49.360 boomer generation ages even if the

0:31:46.929,0:31:51.820 percentage of people in that age group

0:31:49.360,0:31:53.820 who have an alcohol use disorder doesn't

0:31:51.820,0:31:56.710 go up let's say it just stays the same

0:31:53.820,0:31:58.740 because that age group the size of is

0:31:56.710,0:32:02.500 about to double in the next thirty years

0:31:58.740,0:32:03.280 we're gonna have a much bigger burden on

0:32:02.500,0:32:05.200 society

0:32:03.280,0:32:07.659 from alcohol use and that age group

0:32:05.200,0:32:10.169 simply because of the sheer increase in

0:32:07.659,0:32:13.210 size of that age group again even if the

0:32:10.169,0:32:15.640 prevalence of drinking and alcohol use

0:32:13.210,0:32:17.740 disorder doesn't change underage

0:32:15.640,0:32:19.240 drinking is declining but it's it's

0:32:17.740,0:32:22.270 declining much more for males and

0:32:19.240,0:32:26.799 females by the way it's declining at 0:32:22.270,0:32:28.570 college too and but and I don't know if

0:32:26.799,0:32:32.590 now it's statistically declining among

0:32:28.570,0:32:34.960 college-age young adults but College

0:32:32.590,0:32:38.440 used to be a place where students drank

0:32:34.960,0:32:40.720 a lot more than people outside of the

0:32:38.440,0:32:43.840 college environment and that that is

0:32:40.720,0:32:46.600 going away young adults are just in

0:32:43.840,0:32:50.169 general sort of merging in terms of

0:32:46.600,0:32:52.120 their drinking which is interesting so

0:32:50.169,0:32:53.440 women are more likely to oh yeah

0:32:52.120,0:32:55.179 underage drinking is declined even more

0:32:53.440,0:32:58.299 for males and females and I want to come

0:32:55.179,0:33:00.070 back to the the point that there's

0:32:58.299,0:33:01.840 something going on with kids where

0:33:00.070,0:33:04.870 anxiety and depression is increasing

0:33:01.840,0:33:07.630 isolation is increasing socializing is

0:33:04.870,0:33:11.950 decreasing and alcohol use is decreasing 0:33:07.630,0:33:13.780 and our concern is that among those kids

0:33:11.950,0:33:15.429 who do drink more of them will be

0:33:13.780,0:33:18.070 drinking for negative reinforcement and

0:33:15.429,0:33:20.710 that that could lead to an actual

0:33:18.070,0:33:21.440 increase in alcohol use disorder at the

0:33:20.710,0:33:23.690 same time that

0:33:21.440,0:33:25.009 drinking is coming down women are more

0:33:23.690,0:33:26.919 likely to experience a variety of

0:33:25.009,0:33:29.779 alcohol related health effects and

0:33:26.919,0:33:32.929 research suggests that males are again

0:33:29.779,0:33:35.990 statistically more likely to drink for

0:33:32.929,0:33:37.549 positive reinforcement while females are

0:33:35.990,0:33:40.120 statistically more likely to be

0:33:37.549,0:33:42.649 motivated by negative reinforcement and

0:33:40.120,0:33:45.139 drinking to cope or for that negative

0:33:42.649,0:33:47.750 reinforcement doesn't bode well because

0:33:45.139,0:33:50.090 it sets up a cycle where the alcohol

0:33:47.750,0:33:52.070

temporarily fixes the problem but when

0:33:50.090,0:33:53.990 it wears off you feel worse so you drink

0:33:52.070,0:33:57.230 again and it temporarily fixes the

0:33:53.990,0:33:59.450 problem and at the end of a year your

0:33:57.230,0:34:02.659 problem is worse for instance in a study

0:33:59.450,0:34:05.210 of college students female college

0:34:02.659,0:34:09.050 students who say they drink for anxiety

0:34:05.210,0:34:11.329 reduction if they do daily Diaries over

0:34:09.050,0:34:13.339 a year you find out that at the end of

0:34:11.329,0:34:16.280 the year they're drinking escalated and

0:34:13.339,0:34:19.720 their anxiety got worse it just isn't a

0:34:16.280,0:34:22.159 solution it's it's a it's more of a trap

0:34:19.720,0:34:24.470 and we know that alcohol and opioids are

0:34:22.159,0:34:27.470 a deadly combination and and we're

0:34:24.470,0:34:29.329 pretty certain that the number of opioid

0:34:27.470,0:34:31.040 overdose cases that involve alcohol is

0:34:29.329,0:34:33.109 probably much higher than the statistics

0:34:31.040,0:34:35.780 suggest simply because you don't need a 0:34:33.109,0:34:38.750 lot of alcohol to to compound the

0:34:35.780,0:34:42.470 problem that opioids produce in terms of

0:34:38.750,0:34:45.230 brain stem function okay I think I just

0:34:42.470,0:34:47.950 got through that in record time so

0:34:45.230,0:34:50.510 that's my contact information you are

0:34:47.950,0:34:53.329 totally absolutely welcome to call me

0:34:50.510,0:34:56.240 email me if you have any questions I'll

0:34:53.329,0:35:00.250 provide any resources I can point you in

0:34:56.240,0:35:02.960 the right direction if I can't thanks

0:35:00.250,0:35:05.089 thank you dr. white and I can vouch

0:35:02.960,0:35:06.800 personally having reached out to dr.

0:35:05.089,0:35:08.599 white on numerous occasions he's very

0:35:06.800,0:35:11.060 prompt in his response so I do encourage

0:35:08.599,0:35:12.530 you to take him up on that offer so with

0:35:11.060,0:35:14.420 that we're going to turn it over to the

0:35:12.530,0:35:17.390 questions that have populated throughout

0:35:14.420,0:35:20.630 the presentation the first one is from 0:35:17.390,0:35:22.910 Pamela the question is has anyone done

0:35:20.630,0:35:25.609 an analysis of how alcohol costs

0:35:22.910,0:35:27.079 impacted individual citizens such as how

0:35:25.609,0:35:29.000 they contribute to increased health

0:35:27.079,0:35:32.810 insurance or local taxes for law

0:35:29.000,0:35:34.940 enforcement oh yeah I'm sure that that

0:35:32.810,0:35:38.569 has been done I mean their estimates

0:35:34.940,0:35:40.220 the yeah I don't know those numbers off

0:35:38.569,0:35:42.530 the top my head but I think the CDC has

0:35:40.220,0:35:45.680 done that and they provide estimates for

0:35:42.530,0:35:47.450 the cost to a given individual and if

0:35:45.680,0:35:49.250 not that's something that you know I can

0:35:47.450,0:35:51.289 do the math and just given what I

0:35:49.250,0:35:53.390 already have and tell you those answer

0:35:51.289,0:35:54.829 so I I would ask the the person that

0:35:53.390,0:35:58.280 asked that question if you would please

0:35:54.829,0:36:04.250 reach out to me when we're offline and I

0:35:58.280,0:36:06.920

will provide more thank you we have a

0:36:04.250,0:36:12.710 question for clarification I believe it

0:36:06.920,0:36:16.039 was on slide number three which is just

0:36:12.710,0:36:18.289 noting on the last slide I believe that

0:36:16.039,0:36:22.869 there was a total cost and millions not

0:36:18.289,0:36:25.730 billions so just to clarify that point

0:36:22.869,0:36:28.010 that's just me not knowing how to do

0:36:25.730,0:36:30.440 yeah basic math I guess yeah you're

0:36:28.010,0:36:32.359 right that is those are billions spent

0:36:30.440,0:36:34.940 millions I'm gonna fix that

0:36:32.359,0:36:38.630 excellent okay thank you thank you

0:36:34.940,0:36:41.960 pointing that out another question comes

0:36:38.630,0:36:43.910 from Elizabeth did you mean the jury is

0:36:41.960,0:36:45.829 still out about the extent of the

0:36:43.910,0:36:46.520 connection between alcohol use and

0:36:45.829,0:36:48.859 cancer

0:36:46.520,0:36:50.690 I thought we knew from years of research

0:36:48.859,0:36:53.630 that there is a clear connection between

0:36:50.690,0:36:58.010 alcohol use and cancer and then notes a

0:36:53.630,0:36:59.960 citation from CDC cancer alcohol oh yeah

0:36:58.010,0:37:02.510 no I think I think that's that's very

0:36:59.960,0:37:05.779 clear I mean we've known for years that

0:37:02.510,0:37:07.640 that alcohol is a causal agent in cancer

0:37:05.779,0:37:10.160 it's considered a carcinogen by the

0:37:07.640,0:37:10.700 government it is there's no question

0:37:10.160,0:37:13.250 about it

0:37:10.700,0:37:16.789 what what the jury is out about is just

0:37:13.250,0:37:17.029 the the amount of alcohol required to do

0:37:16.789,0:37:20.630 that

0:37:17.029,0:37:23.119 and for whom and why you know we don't

0:37:20.630,0:37:25.220 we know that that it happens we know

0:37:23.119,0:37:27.140 that from epidemiological research that

0:37:25.220,0:37:29.569 the increase seems to occur with for

0:37:27.140,0:37:31.579 women at even less than one drink the

0:37:29.569,0:37:33.650 increase in risk for breast cancer 0:37:31.579,0:37:36.079 but you know with epidemiological

0:37:33.650,0:37:39.200 studies you're always estimating based

0:37:36.079,0:37:41.690 on self-report and records and so you

0:37:39.200,0:37:43.730 know that you know it's just I don't

0:37:41.690,0:37:47.390 think we know for certain where the

0:37:43.730,0:37:48.589 thresholds are and why and for whom but

0:37:47.390,0:37:48.770 we do know that I don't think there's

0:37:48.589,0:37:50.540 any

0:37:48.770,0:37:54.650 question at all that alcohol is a

0:37:50.540,0:37:56.990 cancer-causing agent including breast

0:37:54.650,0:37:59.570 cancer and primarily cancers of the head

0:37:56.990,0:38:01.010 and neck and throat but also breast

0:37:59.570,0:38:03.020 cancer and you know

0:38:01.010,0:38:07.160 Safa Geel cancer and stomach cancer I

0:38:03.020,0:38:09.620 mean it is a cancer-causing agent thank

0:38:07.160,0:38:11.900 you for clarifying that the next

0:38:09.620,0:38:13.760 question comes from Claire do you think

0:38:11.900,0:38:16.460

that there could potentially be a stigma

0:38:13.760,0:38:18.770 for males to admit to a major depressive

0:38:16.460,0:38:21.140 episode and this could possibly go

0:38:18.770,0:38:23.240 undiagnosed could this potentially skew

0:38:21.140,0:38:26.750 the data even in regards to the reasons

0:38:23.240,0:38:29.030 for drinking differences between gender

0:38:26.750,0:38:30.680 oh that's a great question

0:38:29.030,0:38:32.960 yeah I mean there's always that

0:38:30.680,0:38:35.270 possibility I mean even with something

0:38:32.960,0:38:38.680 like hangovers maybe it may be females

0:38:35.270,0:38:40.580 women are just more likely to you know

0:38:38.680,0:38:42.830 acknowledge that they don't feel well

0:38:40.580,0:38:45.560 I mean who knows so that is certainly

0:38:42.830,0:38:47.680 possible and but I have to assume that

0:38:45.560,0:38:51.740 the people that do that kind of research

0:38:47.680,0:38:53.380 take that into consideration somehow and

0:38:51.740,0:38:57.680 you know when it comes to

0:38:53.380,0:38:59.900 epidemiological data we again it's we 0:38:57.680,0:39:02.390 only have what we have to go on we only

0:38:59.900,0:39:04.370 have self-report and and records and

0:39:02.390,0:39:06.050 there's always confounds there's always

0:39:04.370,0:39:09.170 things that contribute to the variance

0:39:06.050,0:39:12.290 whether that's sufficient to explain

0:39:09.170,0:39:14.990 away the differences between males and

0:39:12.290,0:39:18.020 females and you know the increases in

0:39:14.990,0:39:21.310 anxiety depression among females and the

0:39:18.020,0:39:23.060 increased likelihood of a co-occurring

0:39:21.310,0:39:25.820 disorder you know mental health disorder

0:39:23.060,0:39:28.130 Atwell depression or anxiety disorder

0:39:25.820,0:39:30.050 and alcohol use disorder in females you

0:39:28.130,0:39:34.780 know weather weather differences in and

0:39:30.050,0:39:36.860 how males and females what they tell us

0:39:34.780,0:39:39.440 whether that can explain away the

0:39:36.860,0:39:40.700 difference I doubt it but you know again

0:39:39.440,0:39:43.340 what a good question because I think

0:39:40.700,0:39:46.420 that is always that that's sort of a

0:39:43.340,0:39:49.100 problem is always lurking in the data

0:39:46.420,0:39:51.980 all right the next question is from

0:39:49.100,0:39:53.960 Rebecca have you noted any significant

0:39:51.980,0:39:57.040 changes in the alkyl industry or their

0:39:53.960,0:39:57.040 marketing tactics

0:39:58.630,0:40:11.289 i whoops I'm so sorry I am a lot I'm

0:40:09.819,0:40:14.289 having some technological difficulties

0:40:11.289,0:40:17.049 here no problem take your time yes so I

0:40:14.289,0:40:20.499 you know that I don't know how to answer

0:40:17.049,0:40:24.009 that I don't study it and I don't track

0:40:20.499,0:40:27.430 it I mean I think one obvious change

0:40:24.009,0:40:29.979 which is just a change that has occurred

0:40:27.430,0:40:33.160 in all marketing is just the move

0:40:29.979,0:40:36.849 towards social media more online you

0:40:33.160,0:40:39.339 know digital marketing so other than

0:40:36.849,0:40:41.890 that I don't you mean yeah in terms of

0:40:39.339,0:40:43.479

like I assume she's the person is asking

0:40:41.890,0:40:45.009 about like marketing strategies or

0:40:43.479,0:40:46.269 Content ID you know I haven't

0:40:45.009,0:40:48.459 I don't really track that I mean there

0:40:46.269,0:40:51.579 are people in the field that dude the do

0:40:48.459,0:40:53.799 study that I mean David Jernigan who's

0:40:51.579,0:40:55.119 now at I believe Boston University is an

0:40:53.799,0:40:57.430 expert on that there are true experts

0:40:55.119,0:40:59.559 and alcohol and marketing I'm just not

0:40:57.430,0:41:02.650 one of them so I can't I really can't

0:40:59.559,0:41:05.819 tell you perhaps that's another webinar

0:41:02.650,0:41:08.559 for us in the future I'll watch that one

0:41:05.819,0:41:12.130 the next question comes from tomorrow

0:41:08.559,0:41:14.170 and the question is could it be surmised

0:41:12.130,0:41:16.390 that the decline in youth drinking is

0:41:14.170,0:41:18.939 due to prevention programs and education

0:41:16.390,0:41:20.890 if so this would be impetus to continue

0:41:18.939,0:41:22.569 programs we don't eliminate vaccines 0:41:20.890,0:41:27.939 because vaccines have eliminated a

0:41:22.569,0:41:29.559 disease right I think well first of all

0:41:27.939,0:41:31.869 I don't think we're anywhere near done

0:41:29.559,0:41:33.819 addressing this problem and we need to

0:41:31.869,0:41:34.869 get the numbers down much lower than

0:41:33.819,0:41:36.880 they are I mean even though they're

0:41:34.869,0:41:38.979 coming down it's you know if we look at

0:41:36.880,0:41:40.900 the stats regarding how much young

0:41:38.979,0:41:42.969 people drink it's still way too high and

0:41:40.900,0:41:45.489 they're still way too much harm involved

0:41:42.969,0:41:46.749 and we know that the earlier drinking

0:41:45.489,0:41:48.819 starts the greater the likelihood of

0:41:46.749,0:41:51.189 developing an AUD so in order to

0:41:48.819,0:41:53.199 minimize the minimize alcohol related

0:41:51.189,0:41:57.549 harm among adults of the population in

0:41:53.199,0:41:59.949 the workforce and we have to continue to

0:41:57.549,0:42:02.019 work very hard in addressing alcohol use 0:41:59.949,0:42:04.949 during the adolescent years it would be

0:42:02.019,0:42:07.119 nice to be able to say that these

0:42:04.949,0:42:10.300 decreases were directly tied to specific

0:42:07.119,0:42:12.810 things that we've done I suspect

0:42:10.300,0:42:14.950 and and other people have asserted that

0:42:12.810,0:42:18.460 alcohol-related policies like the

0:42:14.950,0:42:20.020 minimum legal drinking age and per se

0:42:18.460,0:42:23.890 limits for driving and zero tolerance

0:42:20.020,0:42:26.920 for driving for teens and policies that

0:42:23.890,0:42:29.020 minimize drinking among adults then

0:42:26.920,0:42:31.420 trickle down to minimize drinking among

0:42:29.020,0:42:33.250 kids so I think there are lots of things

0:42:31.420,0:42:35.530 that we can point out and say that

0:42:33.250,0:42:37.210 probably contributed but we'll never

0:42:35.530,0:42:38.950 we'll never know

0:42:37.210,0:42:43.300 we just have to keep plugging away and

0:42:38.950,0:42:46.000 working at it the next question comes

0:42:43.300,0:42:47.890

from Pamela do you know the relationship

0:42:46.000,0:42:51.300 between eating disorders and substance

0:42:47.890,0:42:55.240 abuse oh just that there is a

0:42:51.300,0:42:57.820 relationship but that's really all I can

0:42:55.240,0:42:59.530 say I mean yeah they're clearly having

0:42:57.820,0:43:01.119 an eating disorder increases your

0:42:59.530,0:43:05.080 likelihood of developing an alcohol or

0:43:01.119,0:43:08.200 other drug use disorder why that is I

0:43:05.080,0:43:09.970 don't know but in general any condition

0:43:08.200,0:43:14.170 that somebody has that causes them to

0:43:09.970,0:43:18.730 stress it causes them anxiety shame

0:43:14.170,0:43:21.010 depression you know anhedonia

0:43:18.730,0:43:24.520 you know whatever happens we anything

0:43:21.010,0:43:27.700 that causes people to feel distress sets

0:43:24.520,0:43:30.369 them up for negative reinforcement from

0:43:27.700,0:43:31.750 a drug and liking the negative

0:43:30.369,0:43:35.140 reinforcement from a drug in other words

0:43:31.750,0:43:38.320 doing the drug and feeling better sets 0:43:35.140,0:43:40.510 you up for developing a problem because

0:43:38.320,0:43:42.570 the brain is wired in a way that when we

0:43:40.510,0:43:45.550 find something that makes us feel good

0:43:42.570,0:43:48.369 or makes us feel better we want to

0:43:45.550,0:43:50.619 repeat it that's how we learn the same

0:43:48.369,0:43:52.560 circuits that drive substance use are

0:43:50.619,0:43:56.350 the circuits to drive eating and

0:43:52.560,0:43:58.750 drinking and bonding

0:43:56.350,0:44:01.420 you know substances tap into these

0:43:58.750,0:44:03.730 pathways and essentially trick us into

0:44:01.420,0:44:06.190 thinking that we just did something that

0:44:03.730,0:44:08.140 makes us feel better and it's natural

0:44:06.190,0:44:10.210 and healthy so we want to go back it's

0:44:08.140,0:44:12.340 just a very natural response to that

0:44:10.210,0:44:14.050 reinforcement and so I think any

0:44:12.340,0:44:16.420 condition you know if you look across

0:44:14.050,0:44:18.369 all you know mental health conditions 0:44:16.420,0:44:19.869 there there's a there's not one where

0:44:18.369,0:44:22.330 there's a decrease that I know of where

0:44:19.869,0:44:24.100 there's a decreased likelihood of AUD

0:44:22.330,0:44:27.040 wherever there's misery and

0:44:24.100,0:44:30.070 and discomfort and suffering you're at

0:44:27.040,0:44:32.800 greater risk of being falling into the

0:44:30.070,0:44:34.870 trap of drinking or using other drugs to

0:44:32.800,0:44:36.580 feel better so that that's really as far

0:44:34.870,0:44:38.350 as I can go I you know maybe somebody

0:44:36.580,0:44:41.380 else has explored this in much more

0:44:38.350,0:44:42.910 detail and has better a better sense of

0:44:41.380,0:44:44.710 the mechanisms but I think that those

0:44:42.910,0:44:50.200 are the general mechanisms people want

0:44:44.710,0:44:52.630 to feel better and yeah okay the next

0:44:50.200,0:44:54.940 question is from Elizabeth do you have

0:44:52.630,0:44:58.030 an explanation for why there has been an

0:44:54.940,0:45:02.980 increase in alcohol use by women you

0:44:58.030,0:45:05.470

know that is a that is such an important

0:45:02.980,0:45:06.940 question and there are people in the

0:45:05.470,0:45:09.690 field who have wrestled with that

0:45:06.940,0:45:12.010 there's a woman named Katherine Keyes

0:45:09.690,0:45:13.780 who I forgotten where she is she's one

0:45:12.010,0:45:16.030 of our leading experts on alcohol and

0:45:13.780,0:45:17.910 women's drinking Sharon will snack who's

0:45:16.030,0:45:19.900 been doing this for you know 30 years

0:45:17.910,0:45:23.110 looking at women's drinking around the

0:45:19.900,0:45:28.570 world and I can tell you that a small

0:45:23.110,0:45:32.440 part of it is the the slow march toward

0:45:28.570,0:45:36.000 equality which sometimes seems

0:45:32.440,0:45:40.450 imperceptible but we are moving toward

0:45:36.000,0:45:42.580 you know more similar roles in society

0:45:40.450,0:45:43.690 and similar opportunities again I'm not

0:45:42.580,0:45:45.400 suggesting we're there but I'm

0:45:43.690,0:45:47.980 suggesting we're moving toward that and

0:45:45.400,0:45:54.910 so some speculation is that the increase 0:45:47.980,0:45:56.230 in income among women has given them the

0:45:54.910,0:45:58.660 chance to drink more I mean if you have

0:45:56.230,0:45:59.950 money you can drink that's a one simple

0:45:58.660,0:46:02.260 thing but I would also assert that

0:45:59.950,0:46:05.770 stress among women because you know it's

0:46:02.260,0:46:08.500 like 60 percent of households are headed

0:46:05.770,0:46:10.360 by women and women still even if they're

0:46:08.500,0:46:14.160 in a two-family a two-parent household

0:46:10.360,0:46:16.810 do more of the the the domestic

0:46:14.160,0:46:18.220 responsibilities I think I think stress

0:46:16.810,0:46:20.500 among women we're seeing this among

0:46:18.220,0:46:23.790 teens but I think among adult women

0:46:20.500,0:46:27.100 stress has to be increasing

0:46:23.790,0:46:29.650 astronomically as well and so because as

0:46:27.100,0:46:32.260 women yeah so I think I think it's it's

0:46:29.650,0:46:33.820 those are just two examples I don't

0:46:32.260,0:46:36.410 think anybody knows for sure but I think

0:46:33.820,0:46:37.730 it's yeah I don't

0:46:36.410,0:46:40.160 as far as I can go I don't really know

0:46:37.730,0:46:42.620 no more but I think it's complicated and

0:46:40.160,0:46:47.510 I think it's a maybe it's a combination

0:46:42.620,0:46:49.100 of opportunity and stress okay we have a

0:46:47.510,0:46:52.370 question specific to fetal alcohol

0:46:49.100,0:46:56.270 spectrum disorders and to the extent

0:46:52.370,0:46:57.890 that you have any information on you

0:46:56.270,0:47:01.580 know how the increase in women's

0:46:57.890,0:47:03.520 consumption impacts that issue yep I

0:47:01.580,0:47:06.350 think we're still waiting to see that

0:47:03.520,0:47:08.450 the I have a whole bunch of stats that

0:47:06.350,0:47:11.780 I'd be happy to send about the

0:47:08.450,0:47:16.430 prevalence of drinking during pregnancy

0:47:11.780,0:47:18.260 and and FASD but off the top of my head

0:47:16.430,0:47:21.320 you know I don't know if there are any

0:47:18.260,0:47:23.410 data yet that have tied these increases

0:47:21.320,0:47:26.120

in women's drinking to an increase in

0:47:23.410,0:47:30.080 exposure to the exposure to alcohol in

0:47:26.120,0:47:33.920 the womb but again if that person would

0:47:30.080,0:47:36.380 like to contact me offline I would be

0:47:33.920,0:47:38.060 more than happy to send everything I

0:47:36.380,0:47:40.160 have okay

0:47:38.060,0:47:44.150 and there are a couple questions that

0:47:40.160,0:47:46.610 are about what you might deduce are the

0:47:44.150,0:47:47.630 drivers for this increase in alcohol use

0:47:46.610,0:47:49.970 among females

0:47:47.630,0:47:52.700 some are asking about product offerings

0:47:49.970,0:47:55.460 flavors strengths and mixed beverages

0:47:52.700,0:47:58.400 energy drinks and others are looking to

0:47:55.460,0:48:00.310 get more information about perhaps if

0:47:58.400,0:48:03.950 marketing and advertising are

0:48:00.310,0:48:06.710 contributing to that issue so anything

0:48:03.950,0:48:08.210 that you can speak to to that end you

0:48:06.710,0:48:09.830 know I think again the the people that 0:48:08.210,0:48:12.230 actually study that in the field would

0:48:09.830,0:48:16.370 be the best to go to but it's tricky

0:48:12.230,0:48:18.110 because sometimes you know marketing can

0:48:16.370,0:48:20.810 be a driver and sometimes marketing can

0:48:18.110,0:48:25.670 follow changes in consumer behavior and

0:48:20.810,0:48:27.260 so is it that that woman's drinking has

0:48:25.670,0:48:29.540 you know so the nature of the

0:48:27.260,0:48:30.860 relationship between the the marketing

0:48:29.540,0:48:35.330 and the drinking is complicated to

0:48:30.860,0:48:37.670 deduce and again I just don't I don't

0:48:35.330,0:48:39.620 really follow the the changes in

0:48:37.670,0:48:43.310 advertising so I I would highly

0:48:39.620,0:48:44.900 recommend reaching out to - to somebody

0:48:43.310,0:48:48.829 and if you want to contact me I can send

0:48:44.900,0:48:51.319 you some contact information okay

0:48:48.829,0:48:53.299 and ELISA has a question we educate

0:48:51.319,0:48:56.180 youth a lot regarding substance abuse 0:48:53.299,0:48:58.190 disorders and and alcohol however in

0:48:56.180,0:48:59.839 your experience have you seen ways to

0:48:58.190,0:49:02.239 reach adults regarding outreach and

0:48:59.839,0:49:04.339 prevention yeah that's that's very

0:49:02.239,0:49:06.380 tricky you know I think the the most

0:49:04.339,0:49:08.950 important thing to remember with any of

0:49:06.380,0:49:11.930 this outreach and prevention work is

0:49:08.950,0:49:13.700 relevance when something is relevant to

0:49:11.930,0:49:16.219 people it tends to have more of an

0:49:13.700,0:49:18.289 impact and so you know for years I

0:49:16.219,0:49:20.539 remember hearing when I first started

0:49:18.289,0:49:21.829 doing prevention work years ago people

0:49:20.539,0:49:23.989 saying well you know information

0:49:21.829,0:49:25.549 information doesn't change behavior

0:49:23.989,0:49:27.920 information doesn't change behavior and

0:49:25.549,0:49:29.749 so in a meeting once I raised my hand

0:49:27.920,0:49:31.910 and I asked the guy who was who had said

0:49:29.749,0:49:33.650

that I said if I if I told you your

0:49:31.910,0:49:35.569 flight was canceled this afternoon would

0:49:33.650,0:49:36.979 you still go to the airport and he said

0:49:35.569,0:49:38.719 well of course not and I said well I

0:49:36.979,0:49:40.819 guess that information can change your

0:49:38.719,0:49:42.920 behavior it just has to be relevant so I

0:49:40.819,0:49:44.660 think we have to keep working at finding

0:49:42.920,0:49:47.150 ways to connect with adults and make

0:49:44.660,0:49:49.309 this information relevant to them and

0:49:47.150,0:49:51.799 one of them is one way to do that is to

0:49:49.309,0:49:54.229 talk about kids if they have kids that

0:49:51.799,0:49:57.459 modeling healthy behavior plays a direct

0:49:54.229,0:50:00.499 role and and how how kids end up

0:49:57.459,0:50:04.459 relating to alcohol and those sorts of

0:50:00.499,0:50:07.249 things so I think we we tend to reach

0:50:04.459,0:50:09.440 adults more through policies that's the

0:50:07.249,0:50:11.900 that's my sense of it we just sort of

0:50:09.440,0:50:13.190 established boundaries and you know 0:50:11.900,0:50:16.249 adults have to function within those

0:50:13.190,0:50:19.279 hours of operation taxes things like

0:50:16.249, 0:50:21.410 that and we I think we tend to do more

0:50:19.279,0:50:24.229 education and outreach for kids because

0:50:21.410,0:50:28.009 we can reach them there in schools

0:50:24.229,0:50:30.709 so I don't know of any I'm trying to

0:50:28.009,0:50:34.099 think of a prevention program am just at

0:50:30.709,0:50:35.869 adults that that has worked the way that

0:50:34.099,0:50:38.359 some of the programs with kids do oh

0:50:35.869,0:50:40.309 well I can tell you programs that

0:50:38.359,0:50:41.779 include both parents and kids will end

0:50:40.309,0:50:43.279 up working for both the parents and the

0:50:41.779,0:50:45.109 kids so you look at something like the

0:50:43.279,0:50:46.670 what's now called the strengthening

0:50:45.109,0:50:48.499 Families program it used to be called

0:50:46.670,0:50:52.390 the Iowa strengthen each family program

0:50:48.499,0:50:55.789 this is a program where parents and kids 0:50:52.390,0:50:58.579 go to a weekly group meeting for I don't

0:50:55.789,0:51:01.459 know ten weeks or so and and learn all

0:50:58.579,0:51:02.690 kinds of stuff and and that ends up

0:51:01.459,0:51:03.320 reducing

0:51:02.690,0:51:04.910 and they learn things about

0:51:03.320,0:51:06.830 communication between the parents and

0:51:04.910,0:51:09.770 the kids that ends up reducing alcohol

0:51:06.830,0:51:12.080 use among the kids and the parents so

0:51:09.770,0:51:13.370 other than that I don't have any I'm

0:51:12.080,0:51:14.530 probably missing something but that's

0:51:13.370,0:51:18.830 that's all I can think of

0:51:14.530,0:51:20.990 okay so Pamela has a question since

0:51:18.830,0:51:22.880 opioids are prescribed by doctors do

0:51:20.990,0:51:26.300 they routinely warn about using alcohol

0:51:22.880,0:51:29.780 at the same time I suspect they they do

0:51:26.300,0:51:32.450 now more I don't know of any data on how

0:51:29.780,0:51:35.330 prevalent that actually is or was I mean

0:51:32.450,0:51:37.010

it's it's on the container but how often

0:51:35.330,0:51:39.020 people pay attention

0:51:37.010,0:51:40.760 pharmacists also are in a position to

0:51:39.020,0:51:44.690 tell patients how often that happens I

0:51:40.760,0:51:47.600 don't know so it's something we we we

0:51:44.690,0:51:51.530 really need to make sure people know and

0:51:47.600,0:51:54.350 and it might be good to think of ways to

0:51:51.530,0:51:57.440 reach more physicians about that to

0:51:54.350,0:51:58.880 ensure that they tell their parents you

0:51:57.440,0:51:59.990 know we do some things here to draw

0:51:58.880,0:52:01.430 attention to stuff like that we've

0:51:59.990,0:52:03.290 published a few papers over the last few

0:52:01.430,0:52:05.450 years about alcohol and medication

0:52:03.290,0:52:08.300 interactions and how many adults take

0:52:05.450,0:52:10.430 medications that could interact and but

0:52:08.300,0:52:13.370 if that whether that's had an impact on

0:52:10.430,0:52:15.590 consumer knowledge and physician

0:52:13.370,0:52:18.230 behavior you know I really don't know 0:52:15.590,0:52:20.390 but it's absolutely imperative that

0:52:18.230,0:52:23.240 people understand you do not need much

0:52:20.390,0:52:25.430 alcohol you know give you know another

0:52:23.240,0:52:27.320 example benzodiazepines there's been an

0:52:25.430,0:52:29.990 increase in deaths from benzodiazepine

0:52:27.320,0:52:33.440 overdoses like valium and related drugs

0:52:29.990,0:52:36.410 like xanax it's very hard to die from an

0:52:33.440,0:52:38.690 overdose on a benzodiazepine but not if

0:52:36.410,0:52:42.380 you have a little alcohol and so you

0:52:38.690,0:52:45.110 know again you know these drugs combined

0:52:42.380,0:52:47.930 with alcohol are very dangerous and so I

0:52:45.110,0:52:51.140 don't know how many positions do talk to

0:52:47.930,0:52:52.910 their patients about it but it's it's

0:52:51.140,0:52:56.210 obviously something that is very very

0:52:52.910,0:52:58.790 important not to do and I would just add

0:52:56.210,0:53:01.040 that I believe CDC has developed some

0:52:58.790,0:53:02.600 resources to encourage you know

0:53:01.040,0:53:04.240 coalition's and others who might be

0:53:02.600,0:53:06.170 interacting with physicians and

0:53:04.240,0:53:07.610 pharmacists to encourage that

0:53:06.170,0:53:09.200 conversation to happen so there are

0:53:07.610,0:53:10.970 resources out there to help if you're

0:53:09.200,0:53:12.570 looking to implement that in your

0:53:10.970,0:53:16.320 community and

0:53:12.570,0:53:18.720 this will be our final question that do

0:53:16.320,0:53:21.390 you know if CBD has an effect on the

0:53:18.720,0:53:26.910 alcohol on the elf alcohol effects of

0:53:21.390,0:53:28.590 the body I'm I'm still a CBD skeptic so

0:53:26.910,0:53:31.770 I don't I don't I don't know if anything

0:53:28.590,0:53:35.310 about anything around alcohol and CBD

0:53:31.770,0:53:37.320 interactions you know I know that I know

0:53:35.310,0:53:39.150 that CB you know I've seen published

0:53:37.320,0:53:40.740 evidence that CBD is valuable for some

0:53:39.150,0:53:43.010 things obviously childhood epilepsy

0:53:40.740,0:53:45.720

because that's been approved by the FDA

0:53:43.010,0:53:47.880 and and it does seem to work for some

0:53:45.720,0:53:50.400 people for certain things I haven't seen

0:53:47.880,0:53:52.830 anything about its interactions with

0:53:50.400,0:53:55.800 alcohol you know it's yeah I'm taking a

0:53:52.830,0:53:57.690 wait-and-see approach and hopefully

0:53:55.800,0:54:00.630 maybe maybe somebody will figure out

0:53:57.690, 0:54:04.740 that it is the best cure for alcohol use

0:54:00.630,0:54:08.370 disorder then I'll be a believer to be

0:54:04.740,0:54:11.700 determined right yes so that will

0:54:08.370,0:54:14.220 conclude this webinar I do want to

0:54:11.700,0:54:16.380 address one housekeeping question that

0:54:14.220,0:54:19.110 was asked at dr. white are people able

0:54:16.380,0:54:22.310 to utilize your PowerPoint information

0:54:19.110,0:54:24.510 without any copyright infringement

0:54:22.310,0:54:27.030 absolutely as long as it's not for

0:54:24.510,0:54:29.550 profit so if it's for an organization or

0:54:27.030,0:54:34.470 your own presentations or educate people 0:54:29.550,0:54:36.210 in fact I I will happily send you a

0:54:34.470,0:54:37.950 hundred more slides I mean I'd be

0:54:36.210,0:54:40.020 grateful if you use them I mean there's

0:54:37.950,0:54:42.030 you know we're doing this we do this

0:54:40.020,0:54:45.450 kind of work just to help people

0:54:42.030,0:54:48.030 understand alcohol and it's and it's

0:54:45.450,0:54:50.820 it's potential health impacts and so I'd

0:54:48.030,0:54:54.030 be delighted if you used it so yes

0:54:50.820,0:54:56.850 please well and we will also have this

0:54:54.030,0:54:58.680 webinar available on our website under

0:54:56.850,0:55:00.330 the resources tab in the next seven to

0:54:58.680,0:55:02.430 ten business days as we mentioned at the

0:55:00.330,0:55:05.490 front end of the webinar so with that

0:55:02.430,0:55:07.170 I'm gonna just thank you dr. white for

0:55:05.490,0:55:08.640 your time and for sharing your valuable

0:55:07.170,0:55:11.400 knowledge with us and thank you all for

0:55:08.640,0:55:13.170 joining napkin on this webinar if anyone 0:55:11.400,0:55:14.880 has questions that we did not address or

0:55:13.170,0:55:18.980 think something afterwards feel free to

0:55:14.880,0:55:21.750 email communications at NAB CA dot o-r-g

0:55:18.980,0:55:24.570 also please visit the napkin website at

0:55:21.750,0:55:25.260 nab CA org for various resources

0:55:24.570,0:55:27.270 including

0:55:25.260,0:55:29.730 white papers previous webinars and other

0:55:27.270,0:55:31.110 materials we would like to like your

0:55:29.730,0:55:32.550 feedback about this session and will

0:55:31.110,0:55:34.650 soon be sending you a quick survey to

0:55:32.550,0:55:37.080 complete and also let me know if you

0:55:34.650,0:55:39.180 have any suggestions for future webinars

0:55:37.080,0:55:40.890 and it is our goal to give you the

0:55:39.180,0:55:43.050 education and tools you need to perform

0:55:40.890,0:55:45.210 your function effectively wishing

0:55:43.050,0:55:49.100 everyone a great day and thank you have

0:55:45.210,0:55:49.100 a great one the bye thanks everybody