

## Supplementary Online Content

McCabe SE, Arterberry BJ, Dickinson K, et al. Assessment of changes in alcohol and marijuana abstinence, co-use, and use disorders among US young adults from 2002 to 2018. *JAMA Pediatr*. Published online October 12, 2020. doi:10.1001/jamapediatrics.2020.3352

**eTable 1.** Trends in Demographic Characteristics Among US Young Adults Aged 18-22 Years Old: 2002-2018

**eTable 2.** Cumulative Percentage of Prescription and Illicit Drug Use as a Function of Alcohol or Marijuana Involvement in US Young Adults: 2015-2018

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Trends in demographic characteristics among US young adults aged 18-22 years old: 2002-2018

<b>Weighted</b>	<b>2002 (%)</b>	<b>2003 (%)</b>	<b>2004 (%)</b>	<b>2005 (%)</b>	<b>2006 (%)</b>	<b>2007 (%)</b>	<b>2008 (%)</b>	<b>2009 (%)</b>	<b>2010 (%)</b>	<b>2011 (%)</b>	<b>2012 (%)</b>	<b>2013 (%)</b>	<b>2014 (%)</b>	<b>2015 (%)</b>	<b>2016 (%)</b>	<b>2017 (%)</b>	<b>2018 (%)</b>	<b>Annualized Trend %</b>	
Unweighted Sample (n)	11,334	11,701	11,879	11,796	11,313	11,562	12,117	12,050	12,212	12,254	11,649	11,244	8,074	8,760	8,209	8,238	8,380		
Sex																			
Male	50.9	50.4	50.7	51.0	51.9	51.4	50.7	51.4	51.9	50.6	50.6	51.2	51.5	50.8	51.4	51.3	51.2		
Female	49.2	49.6	49.3	49.0	48.1	48.7	49.3	48.6	48.1	49.5	49.4	48.8	48.5	49.2	48.6	48.7	48.8	<-0.01 (-0.01,0.05)	
Race/Ethnicity																			
Asian	3.9	4.4	4.4	4.4	4.7	4.3	4.4	4.0	4.1	4.9	5.1	5.4	5.6	5.6	6.0	6.0	6.5	0.14 (0.10,0.18)	
Black	13.7	14.3	13.5	13.9	13.6	14.1	14.9	14.6	14.4	14.4	14.3	14.3	14.6	14.5	14.2	14.2	13.8	0.03 (-0.04,0.08)	
Hispanic	17.3	17.1	17.5	17.3	17.2	17.4	17.9	18.2	19.3	21.5	20.9	21.6	21.8	21.8	22.2	22.6	22.4	0.43 (0.35,0.51)	
White	62.5	62.0	62.4	62.1	62.3	61.7	60.5	60.6	59.6	55.9	56.0	55.2	54.6	54.4	53.9	53.8	53.3	-0.70 (-0.79,-0.60)	
Multiracial	1.4	1.2	1.2	1.2	1.1	1.6	1.4	1.5	1.6	2.2	2.5	2.3	2.4	2.6	2.4	2.7	2.3	0.11 (0.09,0.12)	
Other	1.2	1	1	1.1	1.1	0.9	0.9	1.1	1	1.1	1.2	1.2	1	1.1	1.3	0.7	1.0	<-0.01 (-0.01,0.01)	
Education																			
In college	44.5	45.7	45.9	46.3	46.6	47.7	48.0	49.6	50.2	50.3	51.0	48.5	49.5	45.7	47.1	46.3	45.0	0.08 (-0.02,0.18)	
Non-college	44.9	44.2	44.7	44.0	43.3	42.1	42.3	40.5	39.1	39.4	38.9	41.1	40.0	43.3	42.0	42.7	43.6	-0.16 (-0.24,-0.07)	
Other	10.6	10.1	9.4	9.7	10.1	10.2	9.7	9.9	10.8	10.3	10.1	10.4	10.6	11.0	10.9	11.0	11.5	0.08 (0.04,0.12)	

Source: U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality. 2019. National Survey on Drug Use and Health 2002-2018 (NSDUH-2002-2018-DS0001). Retrieved from <https://datafiles.samhsa.gov/>. Accessed January 6, 2020.

eTable 2. Cumulative percentage of prescription and illicit drug use as a function of alcohol or marijuana involvement in US young adults: 2015-2018

	<b>Unweighted Sample Size</b>	<b>Sub-population of prescription drug use</b>	<b>Sub-population of prescription drug misuse</b>	<b>Sub-population of prescription drug use disorder</b>	<b>Sub-population of illicit drug use</b>	<b>Sub-population of illicit drug use disorder</b>
	<b>(n)</b>	<b>(Cumulative %)</b>	<b>(Cumulative %)</b>	<b>(Cumulative %)</b>	<b>(Cumulative %)</b>	<b>(Cumulative %)</b>
<b>Alcohol and Marijuana: College</b>						
Abstinence of both	3,739	15.3	3.7	6.6	3.8	4.7
Non-disordered alcohol use	5,388	29.4	14.2	5.2	13.1	5.9
Non-disordered marijuana use	209	1.6	1.1	0.4	1.2	1.0
Non-disordered co-use	3,378	30.3	40.0	19.5	42.1	23.5
Alcohol use disorder	1,231	12.9	21.0	27.4	20.0	29.4
Marijuana use disorder	497	6.5	11.5	12.6	11.8	11.6
Disordered co-use	268	3.9	8.5	28.3	8.0	23.9
<b>Alcohol and Marijuana: Non-College</b>						
Abstinence of both	3,988	16.3	5.2	6.4	5.0	4.4
Non-disordered alcohol use	5,269	30.3	14.5	9.2	13.5	8.3
Non-disordered marijuana use	375	2.0	2.4	3.7	2.4	2.9
Non-disordered co-use	3,397	28.9	38.2	24.0	41.1	28.5
Alcohol use disorder	1,233	12.2	20.1	23.0	18.6	22.8
Marijuana use disorder	6,52	6.2	11.1	14.6	11.3	15.1
Disordered co-use	324	4.0	8.5	19.2	8.1	18.0
<b>Alcohol and Marijuana: Overall</b>						
Abstinence of both	7,727	17.5	4.9	7.3	4.9	5.1
Non-disordered alcohol use	10,657	29.1	14.1	7.4	13.2	7.5
Non-disordered marijuana use	584	2.0	1.8	2.5	1.9	2.3
Non-disordered co-use	6,775	29.0	38.9	22.7	41.3	26.7
Alcohol use disorder	2,464	12.1	20.1	23.9	18.9	24.4
Marijuana use disorder	1,149	6.4	11.6	12.7	11.7	13.3
Disordered co-use	592	4.0	8.7	23.6	8.2	20.7

Source: U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality. 2019. National Survey on Drug Use and Health 2002-2018 (NSDUH-2002-2018-DS0001). Retrieved from <https://datafiles.samhsa.gov/>. Accessed January 6, 2020.

Notes: Prescription drug refers to prescription opioids, prescription stimulants, and/or prescription sedatives/tranquilizers/anxiolytics. Other illicit drug use refers to heroin, cocaine, hallucinogen, inhalant, and methamphetamine. Cumulative percentage is weighted.