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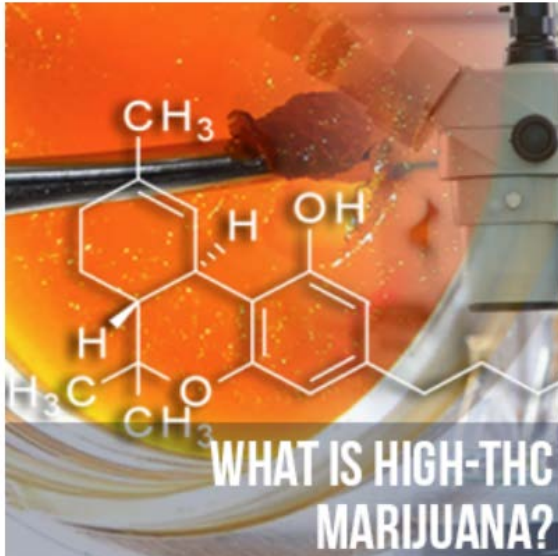
Compilation of the Latest Scientific Research

**The Impact of High-THC Marijuana on Adolescent Brain
Development, Mental Illness, and Suicide Ideation**

Brought to you by Johnny's Ambassadors

By Laura Stack, Founder & CEO

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What Is High-THC Marijuana?



2020

[Big Marijuana targets teens as much as Juul does. Will Arizona also sue them for it?](#) – February 2020

[Compilation of marijuana research by George Spicka](#) 2020

[Dabbing and Vaping Soar Among Colorado High School Students](#) – August 2020

[Dabbing' Concentrated THC Is Troubling New Trend Among Teens](#) – February 2020

[E-cigarette use among young adults: A latent class analysis examining co-use and correlates of nicotine vaping and marijuana](#) – November 2020

[Even occasional marijuana use raises risk of coronavirus complications, doctors say](#) – April 2020

[Even One THC Hit Carries Risk for Inducing Psychosis](#) – March 2020

[Even when sober, frequent marijuana users are dangerous drivers](#) – January 2020

[Informed Consent: A Policy Prescription for Communicating Benefit and Risk in State Medical Marijuana Programs](#) – 2020

[Is Marijuana Addictive?](#) National Institute on Drug Abuse July 2020

[Marijuana Concentrates Spike THC Levels But Don't Boost Impairment](#) – CU June 2020

[Marijuana Impairs Female Fertility](#) – April 2020

[Marijuana Legalization and Youth Marijuana, Alcohol, and Cigarette Use and Norms](#) – July 2020

[Marijuana – Parent UP Kansas City](#) – Aug. 2020

[Marijuana Withdrawal is Real, Study Shows](#) – April 2020

[News Stories About Adolescents Using Marijuana with Poor Outcomes](#) – updated 2020

[Older people don't know what dabbing is](#) – January 2020

[Prevalence and Correlates of Medicinal Cannabis Use Among Adolescents](#) – Aug. 2020

[Prevalence of Cannabis Withdrawal Symptoms Among People With Regular or Dependent Use of Cannabinoids](#) – April 2020

[Risk of Persistence and Progression of Use of 5 Cannabis Products After Experimentation Among Adolescents – more addiction for high THC](#) – Jan. 2020

What Is High-THC Marijuana?



[Tetrahydrocannabinol: harmful even in low doses](#) – March 2020

[The Marijuana Market As An “Essential Service” Threatens Everyone](#) – April 2020

[The Truth about Gateway Drugs and Addiction](#) – February 2020

[THINK YOUR TEEN’S POT SMOKING IS NO BIGGIE? STUDIES SHOW IT CAN TRIGGER PSYCHOSIS](#) – Amen Clinic
May 2020

[Weed Is Not Good for Your Heart, Studies Say](#) – AHA August 2020

[Today’s Marijuana: Much More Dangerous for Kids](#) – Smart Colorado 2020

[What’s the Deal with Cannabis?](#) – February 2020

[Researchers identify more than 100 toxic chemicals in cannabis smoke](#) – June 2020

2019

[Acute Illness Associated With Cannabis Use, by Route of Exposure](#) – Monte Oct. 2019

[Dabs, Wax, Vaping Weed, Edibles and the Real Impact of High Potency THC Products: What Parents Need to Know](#) – September 2019

[Grey Matter Volume Differences Associated with Extremely Low Levels of Cannabis Use in Adolescence](#) –
March 2019

[Legalized Cannabis in Colorado Emergency Departments: A Cautionary Review of Negative Health and Safety Effects](#) – June 2019

[Monitoring the Future](#) – The National Institute on Drug Abuse – 2019

[More kids using vape pens to smoke pot, police warn](#) – February 2019

[National Institute on Drug Abuse – Is Marijuana a Gateway Drug?](#) – December 2019

[National Institute on Drug Abuse – What is Marijuana?](#) – December 2019

[National Institute on Drug Abuse – What are marijuana’s long-term effects on the brain?](#) – December 2019

[Prescription Opioid Misuse and Use of Alcohol and Other Substances Among High School Students](#) — Jones,
Youth Risk Behavior Survey YRBS, United States, 2019

[Potent pot, vulnerable teens trigger concerns in first states to legalize marijuana](#) – June 2019

What Is High-THC Marijuana?



[Teenagers vaping marijuana at higher rates than ever before, new study says](#) – December 2019

[Teens, young adults more likely to take up marijuana if parents use it](#) – November 2019

[What to Know About Marijuana Withdrawal](#) – Jan. 2019

2018

[America's Invisible Pot Addicts](#) – August 2018

[Changes in cannabis potency and first-time admissions to drug treatment: A 16-year study in the Netherlands](#) – Psychological Medicine January 2018

[Marijuana: Facts Parents Need to Know](#) – July 2018

[What to call the plant, the paraphernalia, and the products \(without sounding like an old hippie\)](#) – November 2018

2017 and later

[Adverse Health Effects of Marijuana Use](#) – April 2016

[Cannabis Withdrawal Syndrome: Current Insights](#) – April 2017

[Marijuana Dependence and Its Treatment](#) – Dec. 2007

[Meta-analysis of the Association Between the Level of Cannabis Use and Risk of Psychosis](#) – the heavier the marijuana use, and the more potent the product, the more likely a psychotic outcome like schizophrenia – Feb. 2016

[Patterns of Cannabis Use During Adolescence and Their Association with Harmful Substance Use Behaviour: Findings from a UK Birth Cohort](#) – Oct. 2016

[Relief-Oriented Use of Marijuana by Teens](#) – April 2009

[Prior use of alcohol, cigarettes, and marijuana and subsequent abuse of prescription opioids in young adults](#) – Feb. 2013

[Probability and Predictors of the Cannabis Gateway Effect: A National Study](#) – Feb. 2015

[Proportion of Patients in South London with First-Episode Psychosis Attributable to Use of High Potency Cannabis: a Case-Control Study](#) – Lancet Feb. 2015

[Review of the validity and significance of cannabis withdrawal syndrome](#) – Nov. 2004

What Is High-THC Marijuana?



[10 MYTHS MARIJUANA ADVOCATES WANT YOU TO BELIEVE](#) – November 2014

[Teen Cannabis Use and Illicit Drug Use in Early Adulthood Linked](#) – Science Daily June 2017

[The Facts About Marijuana Concentrates](#) – NIDA 2017

[Video: Introduction to Butane Hash Oil](#) – 2013

[Video: What Commercialization is Doing to Cannabis](#) – November 2017

[What Is “Dabbing” and Why Parents Need to Worry](#) – October 2014

Impact on the Adolescent Brain



2020

[Adolescent Brain Cognitive Development \(ABCD\) Study – ongoing](#)

[Cannabis and the Adolescent Brain – Jan. 2020](#)

[Can neuroimaging connect specific brain structures and functions with suicidal thoughts and behaviors? Apr. 2020](#)

[College students using more pot in legal states; binge drinking less – Jan. 2020](#)

[National Institute on Drug Abuse for Teens – Updated Jul. 2020](#)

[Pediatric Chest Radiographic and CT Findings of Electronic Cigarette or Vaping Product Use–associated Lung Injury – Mar. 2020](#)

2019

[A Deep Dive into Adolescent Development – June 2019](#)

[A Population-Based Analysis of the Relationship Between Substance Use and Adolescent Cognitive Development – Feb. 2019](#)

[Association of Cannabis Use in Adolescence and Risk of Depression, Anxiety, and Suicidality in Young Adulthood – Feb. 2019](#)

[Early, heavy, and chronic cannabis use does have substantive negative effects on the brain – Oct. 2019](#)

[Growing up high: Understanding the impacts of adolescent cannabis use on mental health and brain development – Aug. 2019](#)

[Growing Up High PDF – Jun. 2019](#)

[Impact of neuroimmune activation induced by alcohol or drug abuse on adolescent brain development – Oct. 2019](#)

[Is the Adolescent Brain at Greater Vulnerability to the Effects of Cannabis? A Narrative Review of the Evidence – August 2020](#)

[Longitudinal Alterations in Prefrontal Resting Brain Connectivity in Non-Treatment-Seeking Young Adults With Cannabis Use Disorder – July 2019](#)

[Marijuana use among adolescents is associated with deleterious alterations in mature BDNF – Jan. 2019](#)

Impact on the Adolescent Brain



2018

[Adolescent neurocognitive development and impacts of substance use: Overview of the adolescent brain cognitive development \(ABCD\) baseline neurocognition battery](#) – August 2018

[Cannabis Involvement and Neuropsychological Performance: Findings from the Human Connectome Project](#) – Oct. 2018

[How Marijuana May Damage Teenage Brains in Study Using Genetically Vulnerable Mice](#) – Dec. 2018

[One Month of Abstinence from Cannabis Improves Memory in Adolescents, Young Adults](#) – Science Daily Oct. 2018

[Synthetic Cannabinoids: Spice, K2 and similar marijuana-like substances](#) – Dec. 2018

[What are the effects of increasing cannabis potency on adolescent health?](#) – Lancet 2018
2017 or later

[Adolescent Brain Development and Drug Abuse](#) – June 2008

[Adolescent Cannabis Use and Psychosis: Epidemiology and Neurodevelopmental Models](#) – 2010

[Adverse Effects of Cannabis on Adolescent Brain Development: A Longitudinal Study](#) – March 2017

[Biology of Addiction: Drugs and Alcohol Can Hijack Your Brain](#) – Oct. 2015

[Cannabis Exposure May Lead to Psychosis](#) – Jan. 2015

[Cannabis Use and Later Life Outcomes](#) – Jun. 2008

[Insights into Human Behavior from Lesions to the Prefrontal Cortex](#) – Sept. 2014

[Longitudinal Development of Human Brain Wiring Continues from Childhood into Adulthood](#) – July 2011

[Longitudinal Changes in White Matter Microstructure After Heavy Cannabis Use](#) – May 2015

[Marijuana and the developing brain](#) – Nov. 2015

[Persistent Cannabis Users Show Neuropsychological Decline from Childhood to Midlife](#) – July 2012

[Recreational marijuana use impacts white matter integrity and subcortical \(but not cortical\) morphometry](#) – Jun. 2016

[Teens who smoke pot at risk for later schizophrenia, psychosis](#) – Mar. 2011

Impact on the Adolescent Brain



[The Addictive Brain: All Roads Lead to Dopamine](#) – April 2012

[The effects of \$\Delta\$ 9-tetrahydrocannabinol on the dopamine system](#) – May 2017

[Why Teens Are Impulsive, Addiction-Prone And Should Protect Their Brains](#) – Jan. 2015

[Youth and marijuana: Youth are at special risk for harm](#) – Jun. 2016

Impact on Mental Illness in Adolescents



2020

[An Open Letter to Anyone Struggling with Addiction – 2020](#)

[As marijuana-induced psychosis rises, parents say treatment for young people hard to find – Jan. 2020](#)

[Association Between Cannabis Use and Schizophrenia: Causative or Curative? A Systematic Review – July 2020](#)

[Association of High-Potency Cannabis Use With Mental Health and Substance Use in Adolescence – May 2020](#)

[Cannabis / Marijuana \(and other street drugs\) Have Been Linked to Significant Increases in a Person’s Risk for Schizophrenia – Schizophrenia.com summary updated 2020](#)

[Cannabis Probably Does Cause Schizophrenia – 2020](#)

[Cannabis use among U.S. adolescents in the era of marijuana legalization – Feb. 2020](#)

[Cannabis Use Disorder: no accepted medical purpose and a high potential for abuse – Jun. 2020](#)

[Causality of marijuana and schizophrenia video – Feb. 2020](#)

[‘Dabbing’ concentrated THC is troubling new trend among teens – Feb. 2020](#)

[Heavy Pot Use Linked to Mental Problems Even After Quitting – May 2020](#)

[Management of Psychosis in the Context of Cannabis Use: Beyond the Chicken or the Egg Question – June 2020](#)

[Marijuana & Mental Health – Smart Approaches to Marijuana – 2020](#)

[Mental Health and Substance Use Disorders – Apr. 2020](#)

[New Approach to Lessen Negative Symptoms in Schizophrenia is Based on Brain Circuit Discovery – Jan. 2020](#)

[Our very long story: marijuana is addictive – Feb. 2020](#)

[Persistent Cannabis Use Among Young Adults with Early Psychosis Receiving Coordinated Specialty Care in the United States – Marino, May 2020](#)

[Single joint linked with temporary psychiatric symptoms, review finds – Mar. 2020](#)

[The Marijuana Market As An “Essential Service” Threatens Everyone – Apr. 2020](#)

[The perils of recreational marijuana use: relationships with mental health among emergency department patients – June 2020](#)

Impact on Mental Illness in Adolescents



[Trump Takes a Stand for the Mentally Ill – Feb. 2020](#)

[Users of High-Potency Cannabis Four Times More Likely to Report Associated Problems – Science Daily May 2020](#)

[What to Do If You Suspect Your Teen Has a Mental Illness Apr. 2020](#)

[Will Legalization and Commercialization of Cannabis Use Increase the Incidence and Prevalence of Psychosis? Murray & Hall, April 2020](#)

2019

[Association of Cannabis Use in Adolescence and Risk of Depression, Anxiety, and Suicidality in Young Adulthood – Feb. 2019](#)

[Before Maryland Legalizes Marijuana, It Should Consider This: Pot is Linked to Psychosis – Miller April 2019](#)

[Cannabis and Psychosis: Are We any Closer to Understanding the Relationship? Jun. 2019](#)

[Cannabis-related psychosis, addiction, ER visits: For young users, marijuana can be a dangerous game – Dec. 2019](#)

[Daily Marijuana Use and Highly Potent Weed Linked To Psychosis – Mar. 2019](#)

[Even a Little Marijuana May Change Teen Brain, Study Finds – January 2019](#)

[Grey Matter Volume Differences Associated with Extremely Low Levels of Cannabis Use in Adolescence – March 2019](#)

[Is Marijuana Linked to Psychosis, Schizophrenia? It's Contentious, but Doctors, Feds Say Yes – Dec. 2019](#)

[Legalized Cannabis in Colorado Emergency Departments: A Cautionary Review of Negative Health and Safety Effects – Jul. 2019](#)

[Teen marijuana vaping is on the rise, a new report says, threatening to 'undo years of progress' – Dec. 2019](#)

[Tell Your Children: Marijuana, Mental Illness, and Violence – Jan. 2019](#)

[The Contribution of Cannabis Use to Variation in the Incidence of Psychotic Disorder Across Europe \(EU-GEI\): a Multicentre Case-Control Study – Marta Di Forti, The Lancet, May 2019](#)

[Transition of Substance-Induced, Brief, and Atypical Psychoses to Schizophrenia: A Systematic Review and Meta-analysis – Oct. 2019](#)

Impact on Mental Illness in Adolescents



2018

[Acute Mental Health Symptoms in Adolescent Marijuana Users](#) -Dec. 2018

[Joe Rogan – Can Drugs Cause Schizophrenia?](#) – May 2018

2017 and later

[Association of Cannabis Use with Hospital Admission and Antipsychotic Treatment Failure in First Episode Psychosis: an Observational Study](#) – Patel, Oct. 2016

[A Synopsis of the Numerous Studies Supporting an Causal Relationship between Marijuana Use and The Chronic Psychotic Disorder Schizophrenia](#) – 2015

[Cannabis and schizophrenia. A longitudinal study of Swedish conscripts](#) – Dec. 1987

[Cannabis-Induced Psychosis: A Review](#) – July 2017

[Cannabis users are 5.2 times as likely to develop Schizophrenia](#) – Nov. 2016

[Long lasting effects of chronic heavy cannabis abuse](#) – Jun. 2017

[Schizophrenia – latest research from the Brain and Behavior Foundation](#)

[Seize the Awkward – talking to your friend about mental health](#)

[Significant link between cannabis use and onset of mania symptoms](#) – Feb. 2015

[The Maturing Brain and Schizophrenia](#) – Dec. 2005

[World Health Organization: The health and social effects of nonmedical cannabis use](#)

Impact on Adolescent Suicide



2020

[Applying the Bradford Hill Criteria for Causation to the Relationship Between Marijuana Use and Suicidal Behavior](#) – Christaine L. Miller, Ph.D. Sept. 2020

[Cannabis use during adolescence and the occurrence of depression, suicidality and anxiety disorder across adulthood: Findings from a longitudinal cohort study over 30 years](#) – Jul. 2020

[COVID-19 Is Likely to Lead to an Increase in Suicides](#) – Apr. 2020

[High-Potency Marijuana, Psychosis, and Suicide: Johnny Stack’s Story](#) – October 2020 Epoch Times story

[Highlands Ranch couple puts spotlight on marijuana after son’s suicide](#) – Mar. 2020

[How Do You Cope When Your Child Commits Suicide? Our Story](#) – Mar. 2020

[How to talk to your teen about suicide](#) – Feb. 2020

[Increase Your Awareness of Understanding Suicide and Reduce Fear of Suicidal People](#) – Apr. 2020

[Marijuana Use Is Associated With Suicidal Ideation and Behavior Among US Adolescents at Rates Similar to Tobacco and Alcohol](#) – August 2020

[Risk and protective factors for childhood suicidality: a US population-based study](#) – Apr. 2020

[7 Common Myths About Teen Suicide](#) – Feb. 2020

[Schizophrenia and Suicide](#) – Wed MD Jan. 2020

[Teen Suicide Warning Signs and Prevention](#) – Jun. 2020

[Their son ended his life, their research has led them to questions about marijuana](#) – Mar. 2020

[The Reality of COVID-19 Is Hitting Teens Especially Hard](#) – Apr. 2020

[Video: Taylor’s story of addiction and suicide](#) – Feb. 2020

[Why suicide risk may increase as we cope with COVID-19](#) – Apr. 2020

2019

[Alcohol and Marijuana Use as Daily Predictors of Suicide Ideation and Attempts Among Adolescents Prior to Psychiatric Hospitalization](#) – March 2019 (there is also evidence that marijuana’s effect can be more immediate from a recent study illustrating the likelihood of suicidal thoughts increased on the days when an adolescent uses marijuana)

Impact on Adolescent Suicide



[Association of Cannabis Use in Adolescence and Risk of Depression, Anxiety, and Suicidality in Young Adulthood](#) – Feb. 2019

[Marijuana use may increase teens' risk of depression and suicide, research review suggests](#) – Feb. 2019

[SUICIDE AMONG YOUTH IN COLORADO, 2013-2017 AGES 10-18](#) – CO Dept. of Public Health and Environment 2019

[The Rate Of Teen Suicide In Colorado Increased By 58% In 3 Years, Making It The Cause Of 1 In 5 Adolescent Deaths](#) – Sept. 2019

[Youth Suicide Rate Increased 56% in Decade, CDC Says](#) -Oct. 2019

[Youth Suicide Rates Reach Highest Level Since 2000—Why?](#) Jul. 2019

2018

[CDC Suicide Prevention Fact Sheet](#) – 2018

[Suicide rising across the US: More than a mental health concern](#) – Jun. 2018

2017 and later

[A literature review and meta-analyses of cannabis use and suicidality](#) – May 2016

[Acute Risk of Suicide and Suicide Attempts Associated With Recent Diagnosis of Mental Disorders: A Population-Based, Propensity Score-Matched Analysis](#) – Oct. 2014 (Part of the risk for suicide may be exerted through the mental disorders marijuana triggers, particularly psychotic disorders and depression.)

[Cannabis Use Disorder and Suicide Attempts in Iraq/Afghanistan-Era Veterans](#) – Jun. 2017

[Marijuana and Suicide: a Growing Risk for Our Youth](#) – Mar. 2017

[Marijuana Use Is Linked to Increased Suicide Risk](#) – Mar. 2017

[Mortality Following Treatments for Cannabis Use Disorders – Predictors and Causes](#) – May 2012 (Even a meta-analysis of studies conducted when the strength of marijuana was low, came down on the side of an increased risk of suicide from marijuana use)

[National Institute of Mental Health answers questions about suicide](#)

[The Impact of Adolescent Cannabis Use, Mood Disorder, and Lack of Education on Attempted Suicide in Young Adulthood](#) – Oct. 2014. (among other factors, corrected for a prior history of mood disorders, including depression, risk of suicide attempt elevated 7.5-fold)

Impact on Adolescent Suicide



[U.S. Cannabis Legalization and Use of Vaping and Edible Products](#)

[Among Youth](#) – Aug. 2017 (Although the rate of teen use has not increased that much in CO, the POTENCY of what is used by youth in states with legalized marijuana has increased markedly, and because of the dose-response expected from pharmacologic principles, the risk is greater for negative outcomes.)

[Young Adult Sequelae of Adolescent Cannabis Use: an Integrative Analysis](#) – Lancet Sept. 2014 (a prospective study, over a thousand subjects, numerous demographic factors corrected for risk of suicide attempt elevated nearly 7-fold)

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