

PHOTO ILLUSTRATION BY NATE COMPTON JAN 31.2014 = FEATURE ()=

## The increasing demands placed on teenagers in school, in addition to a generational spike in ADD and ADHD diagnoses, has left many in a state of





droopy, and her fingers began to drag. She still had three pages to finish. She glanced at the amber bottle sitting next to her clock. Inside was a blue and white pill that would solve all her issues.

"When I have a lot going on all at once and I know I have to spend four to five hours straight doing homework, [Adderall] helps me stay focused for that time period," a female honors student said. No doctor has prescribed the drug for her. She, like 18 percent of the NW student body, takes it as a study drug.

She swallowed the pill. About 20 minutes later, her pupils were dilated. She was literally wide awake.

"I always get a little talkative and really focused on whatever I am doing [after I take it]," she said. "I take it because I know I must finish the work. I know I can trust it to help me complete an essay late at better. night, or do well on a test the next day. I honestly believe it helps me perform better."

Adderall is typically prescribed for people who are diagnosed with attention deficit hyperactivity disorder (ADHD) or attention deficit disorder (ADD). People who have these disorders have problems focusing, paying attention, and/or struggle with overactivity; therefore, they need the prescription. In order to focus on everyday activities, those diagnosed with ADD or ADHD are prescribed Adderall, Vyvanse or Ritalin

"It's almost like a funnel," junior Gabby Lorino said. "You usually have all these thoughts and [the medication allows you to focus on what] you really need to think about."

According to the National Institute of Mental Health, the brains of ADHD patients mature roughly two years later than the average person. area that controls attention, cognition and organization. According to WebMD, those with ADHD have a low amount of dopamine. Dopamine is a neurotransmitter, a chemical that sends signals to nerve cells in the brain. Therefore, ADHD patients need stimulants to increase the amount of dopamine in the brain.

"Dopamine is an important chemical in the brain," Dr. Gene-Jack Wang said in a Health Line News report about the effects of ADHD medication on dopamine transporters, "Low levels of the neurotransmitter are associated with, among other things, high levels

She glared at the clock: 3 a.m. She sighed, her eyes felt of novelty-seeking behavior, such as participating in high-risk sports and abusing drugs."

A person who is not affected by ADHD has a functioning frontal cortex and a stable amount of dopamine. After they take a stimulant, they will feel motivated, sharp and ready to go.

"It helps me actually get things done when I don't have the motivation on my own," a junior IB student without a prescription said. "A lot of things happen all at once. Although [school work] is not that big on its own, all of it together makes it overwhelming."

Eighteen percent of NW students admit illegally using the substance. Eight percent of the student body uses these stimulants and is not in any honors classes. The difficulty of the class is not necessarily what drives students to take the class. Student athletes are also taking these study drugs because they believe it helps them focus on their sport

"I take it so I can prepare and be ready for a swim meet," a female athlete who is not prescribed the drug said. "It helps me stay focused on my event."

It's not just students prescribed the medications who are using ADD/ADHD drugs. Nearly 20 percent of the student body either sells these prescription medications or purchases them. If caught, both the buyer and the seller could be charged with possession of a controlled substance.

"The problem with these medications is the addictive implications that come with them," pharmacist Jackie Baker said. "Students don't realize that what they are taking is dangerous when it's not prescribed. They are using it as a study drug."

Stimulants such as Adderall and Vyvanse are listed by the Drug Enforcement Administration (DEA) as Schedule II drugs, meaning that The particular region of the brain that the delay affects most is the they are grouped with cocaine and oxycontin due to their high risk of addiction.

> Some students who are prescribed the drugs are selling them to students, making the drug easily accessible. These students, if caught, could be charged with distribution of a controlled substance. According to the DEA, this can include giving or exchanging a prescription drug, as well as an offer or agreement to sell or exchange.

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day, I'm fine. So, I make about \$40 per bottle by selling Information, Adderall contains amphetamine, them.'

things students are relying on to help them study. In increases blood pressure. The other main ingredient said. "I am afraid if I don't take my meds, I might lose conversation after school." fact, students are consuming energy drinks or taking in Adderall is dextroamphetamine, which can cause a all my friends." caffeine pills to stimulate their brains.

stay awake," Baker said. "Many fail to realize that the heart attack, in both short-term and long-term users. having to resort to aids like study drugs. Parents, unnecessary stimulation many energy drinks can give (See the sidebar for healthy alternatives these drugs). you causes damage to your brain.'

which activates norepinephrine. Norepinephrine is Adderall and its counterparts are not the only a neurotransmitter that accelerates the heart and sense of euphoria due to the rise in dopamine levels. "Students are using unsafe amounts of caffeine to Together, they increase the risks of heart failure or a help students stay on top of their workload without According to students, the pressures of school healthy alternatives.

These side effects range from loss of appetite to, continue to grow: grades, teachers, friends, dating, etc.

"I sell it for \$5 because I don't need all of the pills," said in extreme cases, death (see sidebar for more details). However, some who are prescribed the drug believe the profession is our desire to build relationships with a junior prescribed the drug. "If I take one every other According to the National Center for Biotechnology that the medication allows them to connect with their students," English teacher Marc Gibbens said. "If the peers and stay focused.

"I NEED my medication. Without it, I would be lost to a parent, I hope that most students have a teacher and go crazy," a sophomore prescribed to a stimulant they would feel would be receptive to a personal

Time management and organizational skills can teachers and counselors can help students explore

"I think one of the things that draws teachers to **HAENA LEE + ALAURA MOORE** 

brain without Adderall brain on Adderall Drug misuse and abuse percent IN 2013, THE DRUG ENFORCEMENT ADMINISTRATION APPROVED THE PRODUCTION OF - of legal speed MAN, WOMAN AND CHILD LIVING IN THE U.S. When I take my prescribed dose of like my mind is racing. my teacher puts in front of me. than assigned. hain on CA effects.

When you are taking Adderall or one of its counterparts and you are not prescribed it, you increase the activity in your brain. This causes an overactivity of the brain by over 50 percent, according to prosandconsofadderall.com. Meaning, every part of your brain is active and aroused, arousing unnecessary areas of your brain to finish the work.

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(RITALIN, ADDERALL, CONCERTA, ETC.)

Vyvanse, I feel like I can do anything Other times, my friends think I

Let's say I'm assigned questions 1-4 they talk, and they constantly have to of a packet in AP U.S. History. As soon repeat themselves.

only thing I can think about is getting when my refill is delayed, I can't focus that packet done. Ten minutes later, on anything. I can't get my homework I've answered all 15 questions — more done. I am fidgety and nervous, and the

precalculus homework and some bring myself to do it. AP English annotations. By the time I have to have Vyvanse to function

the hour is over, I complete all my normally. When I don't have that homework. Don't get me wrong, being rush, I don't have the motivation to able to get all of my homework done do anything. But it is a prescription before I leave school is awesome, but drug, highly addictive and dangerous Vyvanse has some undesirable side for those who take it as a study drug.

nomework is on the board, the only When prescribed and monitored, it is thing I care about is getting it done. I an aid. When it is abused, it is not only ignore the day's lesson.

have to tell me to slow down, not to others are taking it to simply to talk so much. That's hard when it feels perform better on the ACT.

Editor's note: We have chosen to allow this editorial to run anonymously for two reasons: 1) Medical professionals warn those who take prescription stimulants not to share this information with friends o avoid being pressured to share or sell the drug. 2) Because ADD/ADHD is a medical condition, the writer has the right to request privacy. We have respected this request.

situation arises that students don't think they can talk

For more information about substance abuse, or if you or someone you know is abusing prescription medications, contact the Substance Abuse and Mental Health Services Administration at 1-800-662-HELP or www.samhsa.aov. ▶ BY ATALIE BLACK + LENA DENNINGTON +



	PURPOSE	USES	SIDE EFFECTS
Caffine	stimulate central nervous system, muscles, and heart	commonly used to improve alertness	raises blood pressure, increases urine flow, hyperactivity, chest pain, anxiety, stomach irritation, increased breathing and heart rate, nausea and insomnia
CAdderall	stimulate central nervous system	treats symptoms of various forms of Attention Deficit Disorder	rashes, irritation, anxious, seizures, difficulty breathing or swallowing, headaches, chest pain, swelling of the eyes, face, tongue or throat, nausea, loss of appetite, lack of sleep or having trouble sleeping, unusual changes in personality and/or behavior, hyperactivity, depression, fatigue
Ritalin	stimulate central nervous system	treats symptoms of various forms of Attention Deficit Disorder	rashes, fatigue, hyperactivity, changes in sensitivity in toes and fingers, sporadic muscle movement, and erratic outbursts and vision changes.





## Healthy Habits:

- A cup of coffee offers a couple hours of energy.



- Consuming carbohydrates can increase production in serotonin, which may make feel calm.

- Drink a glass of water. Dehydration can impair one's concentration.

Give yourself a pat on the back. Your touch releases oxytocin, a hormone that reduces anxiety and promotes the feeling of satisfaction.

- Get some rest. A healthy amount of 8-9.25 hours of sleep can improve concentration and decrease the risk of health problems.

- Eat some chocolate. Not only does release endorphins, but it has small amounts of caffeine to keep one alert.

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