Supplementary Materials

1A: Letter to The Denisonian

A Call to Our Peers

Irritability. Fatigue. Depression. Panic attacks. Dependence. These are likely the last things that college students would want to be facing during an important month of exams and papers, yet many Denisonians are putting themselves at a higher risk for all of these conditions right in the midst of their busiest weeks. These are all side effects of stimulant drugs, such as Ritalin and Adderall. Surprised? You’re probably not alone - according to a 2015 survey given to Denison students, about 14% of students on our campus have taken stimulants that were not prescribed to them, an act that constitutes stimulant abuse and is a felony. That means that somewhere in the ballpark of 300 of your peers are self-medicating in an attempt to gain an edge of productivity and focus that they don’t believe they can achieve on their own. What they don’t realize is just how much these short bursts of hyper-focus can cost them. Colleges today certainly expect a high output of quality work from students, and academic pressure can seem overwhelming.

When asked about stimulant use, college students often downplay the harm of using stimulants by referring to them as study tools. By alluding to these stimulants as such, college students feel more at ease to administer higher doses of them since it is purely for academic purposes (Business Insider). Students claim they use stimulants to improve grades, studying focus, reduce anxiety and stress, and increase confidence (Sober Nation), but stimulants have been shown to only increase focus. In some cases, academic performance can be harmed through stimulant use since they can be fixated on one thing for much longer than needed (Science Daily). Research has also shown that when given a placebo, a physiologically inactive substance, in place of Ritalin, college students were more engaged and paid more attention in class than students who did not receive a pill (Business Insider).

Studies indicate that on college campuses, the students most at risk are white males in fraternities (Business Insider). White females in sororities are also at risk due to social pressures and modeling practices within organizations such as sororities and fraternities. Other students at risk include students with below average grades and high levels of stress, anxiety and depression. Through lack of knowledge on stimulants, they are falsely led to believe that ADHD stimulants will improve their academic performance, which would decrease their academic-related stress (Science Daily). Students often receive access to these stimulants through friends and peers with ADHD prescriptions. College students with stimulant prescriptions often feel strong types of peer pressure to sell their pills to fellow students. This not only makes the student responsible if the stimulant harms their fellow students, but it also harms the student’s daily life as well since they are not taking their prescribed medication (Sober Nation). In addition, sharing prescription medicine is a felony.
When faced with stressful situations, college students have different ways of coping with their stress/anxiety. Some turn to social support, others decide to isolate themselves in hope to get through it, while some turn to specific drugs to make them feel better. Recent studies have shown that more and more college students rely on drugs like Adderall or Ritalin to help them have the energy to get through an exam, all-nighters, or even stay socially active. However, as good as they might feel in the moment when consuming these drugs, there come negative outcomes afterwards. For some, dependence on prescription stimulus can lead to an addiction, or in some cases be fatal to the individual. Abuse/addiction can lead to long or short term effects to an individual’s physical health, mental health, and/or negative effects to the way their body functions. Here are some of the long term and short term effects these drugs can have on an individual when abusing the drug(s): depression, low blood pressure, cardiovascular disease, paranoia, tiredness, nausea, weight loss, aggression, tremors, and/or anxiety.

There are a few good strategies that will eliminate the need to use either Adderall or Ritalin. Stop putting your work off until the last minute. In college, you need to learn to manage your time effectively to be successful. One excellent way to manage your time effectively is to create a daily or weekly schedule of the work you must get done. Take mental breaks while you do your work. This will help you recharge and refocus so you can get your work done without the aid of medication. Some examples of a mental break could be a coffee break, a trip to the gym or taking a short nap. Additionally, you should avoid multitasking. Multitasking creates more stress and makes you less efficient. You need undivided attention and focus for each individual thing that you work on so that you process information the correct way. Lastly, you should live a healthier lifestyle. This includes getting enough sleep each night and eating a low sugar diet. Without enough sleep, cognitive processes are hurt, specifically concentration, alertness, attention, learning, reasoning, and problem solving are impaired. A high sugar diet will make have a lot of energy for short periods of time, but in the long run you will crash and burn. With the use of strategies like these, you will no longer need to use Adderall and Ritalin.

When the idea of stimulant drug use such as Adderall or Ritalin is brought up, more often than not many people are not aware of the potential dangers associated with these substances. However, the bottom line is that Adderall and Ritalin are serious stimulant drugs that need to be treated as such. If you are prescribed one of these drugs, do not share it with those who are not. If you are not prescribed these drugs, do not partake in the use of them, as the consequences can be deleterious to your health. Refer to some alternatives to help get yourself back on track.

Rachel Reardon
Monzerat Vargas
Matt Hedman
Zoe Olivo
Cami Walter

Students in Dr. Kennedy’s Health Psychology class
1B: Posters and trifold for first-year dormitories and dining halls

STUDY DRUGS
FAIL
TO KEEP YOUR GRADES UP

USE OF ADDERALL/RITALIN AS A STUDY DRUG LEADS TO...

- Lower Grades
- Altered perception of academic performance
- Declining Class Attendance
- No BOOST in test scores

#YoureNotInvincible

by Health Psychology Students
Ritalin and Adderall are Stimulants

Those who misuse Ritalin and Adderall do poorly academically
*Lowered Grades
*Declining Class Attendance
Think of all the money wasted

Alcohol
Slowed respiration, coma, cardiac arrest, and overdose

LSD
Longer lasting effects, increased hallucination intensity

Energy Drink
Increased blood pressure, insomnia, headache, and tremors

Antidepressant
Hallucinations, seizures, and increased heart rate

Physical
There are short and long term effects of using study aids

Short Term
Increased heart rate
Increased blood pressure
Cardiac issues

Long Term
Sleep disruption
Hair loss
Weight loss

#YouAreNotInvincible

Produced by Health Psychology Students

https://www.ndcarerecovery.com/drugs-overdose/alcohol


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1C: Trifold for end-of-semester “de stress fest”
It's Stimulant Season!

Learn about why prescription stimulants aren't the best way to get through exams

Brought to you by students in Health Psychology, Fall 2017

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Student Resources

On Denison's Campus:
- Whisler: 740-587-6200

National Resources:
- NATIONAL DRUG TREATMENT REFERRAL ROUTING SERVICE: 1-800-662-HELP
- NARCOTICS ANONYMOUS
- NATIONAL RESOURCE CENTER ON ADHD

***There are plenty more resources out there, but here are just a few for starters. If you feel you or someone you know may need help or would like to learn more, we encourage you to check these out!
1D: Advising Circle handout and script

Prescription Drug Abuse and Misuse

Mixing prescription stimulants with alcohol can cause alcohol poisoning because stimulants suppress feelings of intoxication.

Taking prescription stimulants not as directed DOES NOT boost your academic performance!

Selling prescription drugs to others without a valid license is ILLEGAL!

Prolonged stimulant abuse can result in depression, paranoia, and persistent anxiety ...

Visit or contact the Whisler Center for Student Wellness if you have any further questions or concerns about improper use of prescription drugs on this campus

Courtesy of the Advising Circle Presentation group in Dr. Kennedy’s Health Psychology Class
Section 1: Introductions and anonymous questions (someone go through and choose questions to answer) ****GIVE OUT HANDOUT****

Section 2: Common myths and realities about stimulant use

1. Students who take non-prescription stimulant drugs perform better academically than students who don’t. ((MYTH))

2. Myth: If you are prescribed the drug by a doctor it does not matter how you take it. (fact: if you are prescribed stimulants by your doctor it can help with ADHD, but you must be sure to use it exactly as directed. Combining with alcohol or other drugs can be extremely dangerous.) 

3. Taking stimulants without a proper prescription has no long-term psychological effects, and actually improves your mood and wellbeing … (myth: prolonged wrongful use of stimulants is linked to depression, paranoia, and persistent anxiety.)

4. Illicit drugs such as heroin and cocaine have the highest mortality rates (myth: during the 1980’s and 90’s this was true, but now that prescription drugs are prescribed more widely by physicians. Prescribed drugs are now the leading cause of drug related overdose deaths)

5. There are no real consequences for the misuse of stimulant prescription drugs. Using, sharing and selling prescription drugs is illegal and students can face severe consequences both within their university and law enforcement.

Section 3: Breaking down each topic that relates to the myths and realities section

****One person talks while the other passes out papers/asking students to come up w questions

1. Basic Facts: Prescription Stimulant Medications
   - stimulants: prescription stimulants increase or stimulate activities and processes in the body
   - increased activity — can boost alertness, attention, and energy
   - two commonly misused stimulants: amphetamines (adderall) and methylphenidate (ritalin)
   - also known as… Bennies, Black Beauties, Skippy

2. Academic Performance: Pros and Cons of Stimulant Drug Use
A Why do students use stimulant drugs to aid academic performance?
   1. For those with ADHD/ADD -
      - Increase alertness, arousal, concentration, and sustain attention
      - Reduce impulsive behavior and restlessness

In these cases, stimulants can provide students with attention disorders the ability to complete academic tasks
BUT… “nearly 10% of students who misused or abused stimulant drugs held a prescription for the drug and were being treated for ADHD”

2. Those who have no identified attention disorder -
Overall, students are exhausted and overwhelmed by their school assignments

- Financial/time constraints
  - Instead of using healthy, stress reducing outlets (exercise, tutoring, etc)

3. Consequences of Stimulant Misuse:
1. Short-term effects
   - increased heart rate and blood pressure
   - high body temperature
   - muscle shakes or tremors
   - agitation
2. Psychological effects
   - hallucinations and delusions
   - persistent anxiety
   - paranoia
   - depression*
3. Mixing stimulants (particularly adderall) with alcohol
   - when drinking alcohol and using adderall, the stimulating effects of adderall subdue feelings of intoxication
   - this causes an individual to drink more than he/she should, leading to alcohol poisoning or overdose on alcohol
   - the negative effects of both drugs are magnified when used together

4. How to Avoid Stimulant Drug Misuse:
   Why do people misuse stimulant drugs?
   a. Perception that they increase academic success
   b. Enhance partying experience
   c. Self-medicate for anxiety issues

How to avoid misuse:

- Changing the way we view these drugs and the myths surrounding them
  ■ People use them not to get high but for academic function, trivializes the problem.
- Develop and practice good time management skills to avoid feeling the pressure to need these drugs for their perceived academic benefits
- There can be pressure for students who do have prescriptions for these stimulants to sell to other students
  ■ Legal ramifications of sharing and selling prescription drugs
- Dispel the myths
Possibility of unknown interactions with other drugs. If a drug requires a prescription the FDA has determined that it is not safe or appropriate to use without the supervision of a health care professional

Lower GPAs

5. Stimulant Abuse on College Campuses:
- Relieve stress, relax, have fun, forget their problems and to fit in among their friends, stay up late, homework
- College is the first time that you are living alone, without parental supervision, students are exploring new aspects of their lives
- Peer pressure - most common at this age of our lives. Common among fraternities and greek organizations
- Complicating the issue further - many students believe that prescription medications are safer alternatives to illicit street drugs like cocaine and heroin
- Two areas where stimulants are abused: for academic purposes or in the party culture
  - Academically: abused for their side effects and ability to keep a person alert and focused in order to stay awake for long periods of time (which we now know does not actually work for those who are not prescribed)
  - Party culture: used to party, get a “high”, sometimes mixed with alcohol due to thinking it will increase “buzz”

What about Denison?
- Like every college campus, at denison there is a lot of pressure academically to do well.
- Could the fact that we are a small campus have an impact on the abuse of prescription drugs? A small campus, gossip is spread easily and often, if someone knows someone else who has prescription drugs, then someone will tell someone else and so on