EXECUTIVE SUMMARY

The College Prescription Drug Study (CPDS) is a multi-institutional survey of undergraduate, graduate and professional students. The CPDS examines non-medical prescription drug use, including the reasons for and consequences of use, perceived access to prescription drugs and perceptions of use among students. The purpose of the CPDS is to understand the non-medical use of prescription drugs among college students. The CPDS was developed as a collaboration between The Ohio State University’s Center for the Study of Student Life, Student Wellness Center, and College of Pharmacy. The 2022 CPDS was administered by the College of Pharmacy.

During spring 2022, the CPDS was administered to random samples of students attending institutions across the United States via an online anonymous survey. The survey was administered to 58,000 students at the 15 participating institutions; 6,510 students responded for a response rate of 11.22%. More information on the study is available by contacting the CPDS team at rxstudy@osu.edu.

HIGHLIGHTS

Frequency of Use
- 6.8% of students reported misusing pain medications, 7.8% reported misusing sedatives and 14.5% reported misusing stimulants.
- Many college students who report misusing prescription drugs have not used in the past 12 months. Of the students who reported ever misusing, 62.9% have not misused pain medications in the past 12 months, 56.7% have not misused sedatives in the past 12 months and 43.5% have not misused stimulants in the past 12 months.

Access to Prescription Drugs
- 11.4% of students said it is somewhat easy or very easy to obtain pain medication for non-medical use; 15.2% of students said sedatives are somewhat easy or very easy to obtain; 26.4% of students said stimulants are somewhat easy or very easy to obtain.
- The majority of students who misuse prescription drugs reported that they typically obtain prescription drugs from friends (44.0% for pain medications, 54.6% for sedatives and 76.9% for stimulants).

Reasons for Use
- The most common reasons students reported misusing pain medications were to get high (46.0%) and to relieve pain (40.8%); sedatives were to relieve anxiety (50.8%) and to get to sleep (47.3%); and stimulants were to study or improve grades (76.1%).

Consequences of Use
- The most frequently reported effects of misusing prescription drugs included experiencing depression for students who used pain medication (35.2%), experiencing memory loss for sedative use (35.5%) and self-reported positive impact on academics for stimulant use (61.9%).

Education and Resources
- 51.4% of students were aware of resources, either on or off campus, that help with prescription drug safety.
- 73.1% of students knew where to go to get help if they were worried or concerned about misuse.

Prescribed Medication Behaviors
- Only 8.6% of respondents said they kept their prescription drugs in a locked space; the majority kept them in an unlocked medicine cabinet or drawer.
INTRODUCTION

The College Prescription Drug Study (CPDS) is a multi-institutional survey of undergraduate, graduate and professional students. The CPDS examines the non-medical use of prescription drugs, including the reasons for and consequences of use, access to prescription drugs and perceptions of use among students. Results provide a better understanding of the current state of non-medical use of prescription drugs on college campuses, including information on the types of prescription drugs misused, attainment of drugs, reasons for use and consequences of use.

The CPDS was developed and administered as a collaboration between The Ohio State University’s College of Pharmacy, Center for the Study of Student Life, and Student Wellness Center. The survey instrument is based on previous research on prescription drug misuse at The Ohio State University, including campus-wide studies beginning in 2009 and the first multi-institutional administration of the CPDS in 2015.

During spring 2022, the CPDS was administered to random samples of students attending 15 institutions across the United States via an online anonymous survey. Ten institutions with a total student body greater than 15,000 students participated in the study (66.7% of participating institutions) and five institutions with a total student body less than 15,000 students participated (33.3% of participating institutions). The survey was administered to 58,000 students; 6,510 responded for a response rate of 11.22%. More information on the study is available by contacting the CPDS team at rxstudy@osu.edu.

RESEARCH DESIGN & METHODS

The CPDS is driven by the following research questions:

1. What types of prescription or non-prescription drugs do students misuse?
2. What are the demographics of students who are most likely to misuse prescription drugs?
3. Why do students misuse prescription drugs and what are their perceptions of the misuse of prescription drugs?
4. Are students who misuse prescription drugs more likely to misuse non-prescription or illicit drugs?

Institutions were recruited to participate in the 2022 CPDS through emails to health promotion and wellness staff from institutions across the United States. The online survey was sent to random samples of undergraduate, graduate and professional students who were at least 18 years of age at each institution. Surveys were administered in February or April, depending on each institutions’ academic calendar and preference. The online survey was administered anonymously using Qualtrics survey software.
FREQUENCY OF USE

Estimates of the non-medical use of prescription medications vary widely. Prior research has estimated that between 6 and 14% of college students have used prescription drugs for non-medical reasons (SAMSHA, 2021; Zullig and Divin, 2012), which is the highest rate of misuse among 18-25-year-olds (SAMSHA, 2021). In the CPDS, 6.8% of respondents reported that they had ever misused pain medications, 7.8% had ever misused sedatives and 14.5% had ever misused stimulants; 20.5% had ever used any of the three types of prescription drugs. 13.9% of respondents reported that they have used more than one prescription drug non-medically at the same time.

Have you ever used the following for non-medical reasons?

- Pain Medications: 6.8%
- Sedatives: 7.8%
- Stimulants: 14.5%

When looking at misuse among only those who reported ever misusing prescription medications, the majority reported not misusing in the past 12 months. However, 36.7% of respondents reported that they had misused pain medications, 43.3% had misused sedatives and 56.2% had misused stimulants at least once in the past 12 months.

In the past 12 months, how often did you use the following for non-medical reasons?

- Pain Medications (n = 267):
  - 0 times: 63%
  - 1-9 times: 44%
  - 10-19 times: 34%
  - 20-49 times: 5%
  - 50 or more: 1%

- Sedatives (n = 270):
  - 0 times: 43%
  - 1-9 times: 34%
  - 10-19 times: 28%
  - 20-49 times: 6%
  - 50 or more: 1%

- Stimulants (n = 519):
  - 0 times: 63%
  - 1-9 times: 57%
  - 10-19 times: 43%
  - 20-49 times: 7%
  - 50 or more: 2%

Note. Self-reported estimate of use in the last 12 months among students who indicated they had ever used a prescription drug for non-medical reasons; students who responded "prefer not to say" are not presented in charts but are included in calculation.
Among respondents who reported misusing prescription medications, a series of follow-up questions asked about how they misused, when they began misusing and why they misused these medications. The vast majority of those who misused had ingested medications orally (94%), while over a quarter of respondents (26%) reported snorting medications nasally.

How have you taken prescription drugs for non-medical reasons? (n = 1,336)

When asked about initiation of their misuse of prescription medication, the majority of students who misuse stimulants (63%) began misusing during college. Most students who misuse sedatives began in either high school (42%) or college (43%). Over half of students who misuse pain medication began misusing during high school (53%), while over a quarter or students (28%) began misusing during college. Very few respondents reported beginning to misuse prescription medications in middle school or earlier.

When did you start using the following for non-medical reasons?

Note. Self-reported among students who indicated they had ever used a prescription drug for non-medical reasons; students who responded “prefer not to say” are not presented in charts but are included in the percentage calculation.
ACCESS

Understanding how students access prescription drugs for non-medical use provides important information that can help practitioners and scholars understand the patterns of prescription drug misuse. Student respondents were asked how easy it is to obtain prescription drugs without a prescription. They were also asked where they typically obtain prescription drugs that they use non-medically.

How easy is it for you to obtain the following prescription drugs? (% Reporting Very or Somewhat Easy to Obtain)

Students obtained prescription drugs for non-medical use from a variety of sources, including people they know, such as friends, peers who are not friends, and relatives. Students were most likely to report obtaining prescription drugs for non-medical use from a friend across all types of prescription drug types. The chart below highlights some sources where students obtain prescription drugs for non-medical use.

Means by which students obtain prescription drugs for non-medical use
REASONS FOR USE

College students use prescription drugs for non-medical reasons due to a variety of environmental and personal factors. Some research suggests that college students may be at a higher risk of misuse due to access, social norms and academic strain (Norman & Ford, 2018). Research also suggests that college students are more likely than their non-college attending peers to misuse stimulants (McCabe et al., 2018). Personal factors for non-medical use of prescription drugs vary; about 13% of college student who misuse prescription drugs reported using for recreational purposes and 39% reported using for self-treatment (McCabe et al., 2009; Schepis, et al., 2020). The CPDS asked students why they used prescription drugs for non-medical reasons. Among student respondents in the CPDS, the top five most frequently reported reasons for use of each type of medication are included below.

Top 5 Reasons for Non-Medical Use of Prescription Drugs

<table>
<thead>
<tr>
<th>Pain Medications</th>
<th>Sedatives</th>
<th>Stimulants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get high (46.0%)</td>
<td>Relieve anxiety (50.8%)</td>
<td>Study or improve grades (76.1%)</td>
</tr>
<tr>
<td>Relieve pain (40.8%)</td>
<td>Sleep (47.3%)</td>
<td>Enhance social situations (24.1%)</td>
</tr>
<tr>
<td>See what it was like (31.2%)</td>
<td>Get high (35.5%)</td>
<td>See what it was like (23.8%)</td>
</tr>
<tr>
<td>Relieve anxiety (30.0%)</td>
<td>See what it was like (29.5%)</td>
<td>Get high (14.9%)</td>
</tr>
<tr>
<td>Escape reality (25.2%)</td>
<td>Feel better (24.5%)</td>
<td>Like the way they feel (12.9%)</td>
</tr>
</tbody>
</table>

MISUSE AND STUDYING

The vast majority of respondents who misused prescription drugs do so to study or improve grades. When asked with whom they misused prescription drugs while studying, 63.3% of respondents reported misusing alone, 12.9% misused with others, and 21.9% misused both alone and with others (1.9% of respondents preferred not to answer).

When are you most likely to misuse prescription drugs to study? (n = 540)

- 70% Finals or exams
- 51% Before a test or project
- 47% When I feel behind
- 20% When I want to get ahead
- 5% When I need a competitive edge
- 10% Continuously throughout term
Respondents were also asked about their initiation of misusing prescription medications to study. Among undergraduate students, 33% reported beginning before college and 37% began in their first year of college. Among graduate and professional students, 71% began misusing during college, 15% began prior to college and 7% began in the first year of graduate or professional school.

**When did you start misusing prescription drugs to study?**

<table>
<thead>
<tr>
<th>Undergraduate Students</th>
<th>Graduate/Professional Students</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Before college</strong></td>
<td>15%</td>
</tr>
<tr>
<td><strong>First year</strong></td>
<td>During college (71%)</td>
</tr>
<tr>
<td><strong>Second year</strong></td>
<td>Between college &amp; grad school (4%)</td>
</tr>
<tr>
<td><strong>Third year</strong></td>
<td>First year of grad/prof (7%)</td>
</tr>
<tr>
<td><strong>Fourth year or later</strong></td>
<td>Second year of grad/prof or later (3%)</td>
</tr>
</tbody>
</table>

**CONSEQUENCES OF USE**

There are many potential consequences of misusing prescription drugs. Students were asked to choose from a list of consequences and select which they had experienced because of their non-medical use of prescription drugs. The most frequently reported consequences among student respondents in the CPDS are outlined below.

**Pain medications**
- 35% Been depressed
- 28.6% Done things I wish I hadn’t
- 28.4% Emotional problems

**Sedatives**
- 36% Experienced memory loss
- 29% Been depressed
- 25% Done things I wish I hadn’t

**Stimulants**
- 62% Positive effect on grades
- 19% Emotional problems
- 18% Been depressed

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1. Response option “Experienced a positive impact on your academics as a result of your use”
2. Response option “Experienced emotional or psychological problems”
ALCOHOL AND OTHER DRUG USE

All respondents were asked if they used drugs or alcohol to manage their stress. More than half of respondents (54%) reported that they never use drugs or alcohol to manage their stress.

How often do you use drugs or alcohol to manage your stress? \((n = 6,205)\)

Respondents who reported misusing prescription medications were asked whether they ever misused these medications while drinking alcohol. The majority of college students who misuse pain medications, sedatives and stimulants reported never drinking alcohol while misusing prescription medications.

Do you ever use the following prescription medications while drinking alcohol?

Note. Students who responded “I’d rather not say” are not included in the percentage calculations.
Among students who misuse prescription drugs, 38% report they have used illicit drugs in place of prescription drugs. Among those who have done this, the most common illicit drugs used to replace prescription drugs are marijuana (95%), hallucinogens (42%), cocaine (37%), and MDMA (26%).

**Illicit Drugs Used in Place of Prescription Drug Misuse**

<table>
<thead>
<tr>
<th>Drug</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marijuana</td>
<td>95%</td>
</tr>
<tr>
<td>Inhalants</td>
<td>9%</td>
</tr>
<tr>
<td>Hallucinogens</td>
<td>42%</td>
</tr>
<tr>
<td>Methamphetamine</td>
<td>8%</td>
</tr>
<tr>
<td>Cocaine</td>
<td>37%</td>
</tr>
<tr>
<td>Heroin</td>
<td>5%</td>
</tr>
<tr>
<td>MDMA</td>
<td>26%</td>
</tr>
<tr>
<td>Fentanyl</td>
<td>4%</td>
</tr>
</tbody>
</table>

When asked why respondents used illicit drugs in place of prescription drugs, 51% reported because they had a different effect than prescription drugs, 51% reported because they were easier to access, 37% reported they were curious about them, 30% reported that they felt it was less addictive than prescription drugs, 28% reported they had a stronger effect than prescription drugs, and 23% reported because they felt it was safer than prescription drugs.

**EDUCATION AND RESOURCES**

Respondents were asked a variety of questions on awareness of resources, education and if they knew where to go for help regarding prescription drugs. The majority of respondents (87.4%) reported that they had never taken a workshop, class, or had a training on the appropriate ways to use prescription drugs.
PRESCRIBED MEDICATION BEHAVIORS

Respondents were asked where they stored their prescription medication. The most frequent response was in an unlocked drawer or cabinet (43%); only 9% kept medications in a locked space.

Where do you store your prescription medications? \((n = 1,272)\)

![Bar chart showing storage preferences for prescription medications.]

Respondents were asked if they had kept a prescribed medication past when it was needed, sold a prescribed medication or given a prescribed medication to someone else. Respondents were the most likely to give or sell stimulants to friends or peers. Pain medications were the type of medication that respondents were most likely to keep after they were medically needed.

Have you done the following with your prescribed medications in the last 12 months?

![Bar chart showing frequencies of various behaviors involving prescribed medications, differentiated by type of medication and action taken.]
REFERENCES

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