

**Turn On, Tune In, Collect Data:
Conducting Clinical Investigations
with Controlled Substances**

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**Presentation
Overview**

- Background of Controlled Substances Regulations
- Current Controlled Substances Research
- Site Preparation for a Clinical Investigation Involving a Schedule I Controlled Substance as a Test Article
- Pitfalls to Avoid

**Background of
Controlled Substances
Regulations**

Regulatory Timeline



Late 1800s to Early 1900s - No federal regulation



Harrison Narcotics Act 1914 - Registration of manuf., distrib., & prescribers; tax; records.



Marihuana Tax Act of 1937 - Unofficial federal ban of marijuana via high transfer tax; all states made possession illegal.

Regulatory Timeline



1956 Narcotic Control Act - death penalty for selling heroin to minors.



1963 Bureau of Drug Abuse Control in Dept. of Health, Education & Welfare - shift to medical approach to drug abuse.



1970s War on Drugs and Controlled Substances Act; Establishment of DEA

Controlled Substances Act

- Drugs are scheduled based on medicinal value and potential for abuse.
- Schedule I = No medicinal value & high potential for abuse.
 - Examples: Marijuana, Ecstasy (MDMA), LSD, Heroin.
- Schedule II - V = Medicinal value and lessening potential for abuse as Schedule number increases.

Current Controlled Substances Research

Controlled Substance Research Then ...



...and NOW!



<http://www.srresearch.org/clinical-research>

**So you have a PI who
wants to do an
Ecstasy Trial with
Human Subjects...**

**What could go
wrong?**



**Site Preparation for
a Clinical
Investigation
Involving Controlled
Substances as a Test
Article**

**Meet the Regulators
You'll Be Working
With**

- Food & Drug Administration
 - IND required
 - IRB approval
- Drug Enforcement Agency
 - Registration & Inspection Required
- State Regulators (e.g., State Board of Pharmacy, State Drugs & Narcotics Enforcement Agency)
 - Registration & Inspection may be required

**Step 1: Review & Get
Approval for Your
Protocol & IND
Application**

- Is there a sponsor, or will researcher be serving as a sponsor-investigator?
- Where will researcher be obtaining drug?
 - Chemistry information required for IND - Typically requires a Letter of Authorization from manufacturer.
 - IND and LOA must be provided to FDA and DEA
 - Will compounding be necessary?
 - Using marijuana

**Single Marijuana
Supplier – U. of Miss.**

^ Is the University of Mississippi the only legal marijuana grower in the U.S.?

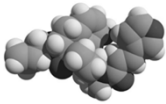
Answer:

Under the 1961 International Single Convention on Narcotic Drugs and the 1970 Controlled Substances Act (CSA), the federal government is the single "agent" allowed to provide marijuana for research. As of now, the DEA has only authorized one grower, the University of Mississippi, which grows marijuana under contract with the National Institute on Drug Abuse (NIDA). As part of this contract, UM holds a DEA Schedule-I Bulk Manufacturer registration to cultivate plants for this purpose. However, in 2016 DEA announced a **new interpretation** of the Single Convention to allow other growers to cultivate marijuana to supply researchers. As of July 2017, UM is unaware of any growers who have been approved under this new program.

DEA has accepted applications from other suppliers, but has not yet approved any.

<https://ibonics.uomiss.edu/fac/ksauc/>

Possible Source for Other Controlled Substances

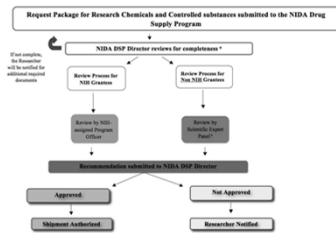


RESEARCH RESOURCES
DRUG SUPPLY PROGRAM CATALOG

- Yes, there is a Catalog, but you need permission to look at the marijuana page.
- Available for grantees and non-grantees.
- Must have IND and DEA registration to order.

<http://www.drugabuse.gov/docs/default-files/ind/indcatalog2014.pdf>

NIDA Review Process



<https://www.drugabuse.gov/funding-guidelines/qa/qa-research-chemicals-controlled-substances>

Human Subjects Considerations

- IRB approval must be obtained before DEA approval can be obtained for a Schedule-I drug study.
- Certificates of Confidentiality
 - Available for non-federally funded studies
- Medical care for emergencies
 - Who will be on hand?
 - Transportation to hospital if needed
 - Subjects going to emergency room on their own

Human Subjects Considerations

- Informed consent issue
 - Risks:
 - Failing drug tests
 - How to quantify health risks?
 - Payment for subject injury
- Where/how will subjects be recruited?
 - Will students be recruited? What age?
 - Will school administrators be informed?
 - Communication plan is vital!
 - "Mom, guess what I did at school this past semester!"

Step 2: Get Your Registrations in Order

- Determine if your state requires registration with state authorities. Consult counsel and/or the compliance office on what needs to be done.
- State registration typically requires full protocol to be submitted for Schedule I study.
- State regulators will typically perform inspection of site, including security, procurement, record-keeping and disposal.
- Process may take several weeks/months.
 - PLAN AHEAD!!!!

DEA Registration

- Principal Investigator must apply for DEA Registration using DEA Form 225 (Researcher).
 - Practitioner Registration is not enough for Schedule I Studies.
- Requires submission of IND, LOA, IRB approval and full protocol.
- DEA will inspect site.
- More than one research site?
 - Each site will require a separate registration and inspection.
 - Drugs may only be delivered to site listed on registration.

Step 3: Prepare for your Inspections – Security

- Security – Personnel
 - Criminal background checks
 - Signed certification of no felony conviction, drug use. [21 CFR 1301.90]
 - Access log.
- Security – Physical
 - Drug Safe or Locked Cabinet securely fastened to wall or floor or weigh more than 750 lbs.
 - Key or combination lock. Forced entry must be easily detectable.
 - Located in locked room accessible only by research personnel.
 - Located where drug will be dispensed.
 - Schedule I and II drugs must be kept separately from other higher scheduled drugs.

Prepare for Inspections – Records

- Paperwork re. ordering
 - Electronic – DEA CSOS system
 - DEA 222 Forms for Schedule I & II Substances
 - Order Receipt Log
 - DEA Power of Attorney Form for ordering
- Inventory
 - Initial inventory
 - Biennial inventory
- Current Use and Disposition Log
- Discrepancy Report Form
- Separate records should be kept for Schedule I-II drugs and Schedule III – V drugs.

Pitfalls to Avoid



Take Inspections Seriously!

- Have your paperwork in order.
- Do not argue with the DEA inspector.
- Do not have controlled substances in your safe before the inspection.
- Be prepared for post-registration visits
- You might think these things are obvious ...

Co-Investigators

- Investigator is the person authorized to dispense.
- Will there be a co-investigator?
 - Check with DEA and State regulatory authorities as to whether co-investigator must also have a registration.
 - Remember to have a DEA Power of Attorney if Co-investigator will be ordering study drug.

Drug Accountabiltiy

- Monitoring processes for detecting loss and diversion
- Any theft must be reported to DEA, state authorities and police.
 - DEA Form 106
- Loss of significant amount must be reported.

Disposal of Left Over Controlled Substance

- Return to sponsor
- Reverse distribution
- What happens if the investigator retires or moves to another site?

Forms & References

- See link below for sample DEA forms.
 - <http://compliance.emory.edu/controlled-substances/forms.html>
- Other references
 - <https://www.drugabuse.gov/drugs-abuse/marijuana/nidas-role-in-providing-marijuana-research>
 - <https://www.drugabuse.gov/researchers/research-resources/nida-drug-supply-program>
 - <https://www.drugabuse.gov/nida-drug-supply-program-dsp-ordering-guidelines>

Questions?

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