Modern High: Using The Internet To Obtain Substances of Abuse

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Presentation Objectives

- Find websites selling psychoactive substances of abuse
- Describe information available at the Vaults of Erowid
- Give an example of a compound (chemical or product name), marketed as a legal high and belonging to the following chemical classes: cathinone, cannabinoid, cocaine derivative, phenylethylamine, ketamine derivative, and tryptamine.
- Cite the clinical effects and toxicities associated with each chemical class covered.
Background

• Stats on internet sales
• Drug abuse stats
• Drug-related death stats
• Availability
So You Want To Get High...Legally

• Advantages of the internet as a source
  – No need to find a dealer
  – Greater variety of agents
  – Reasonable priced
  – Delivered to your home in inconspicuous packaging
  – They are legal!!! (well ... maybe not)
  – They are SAFE!!! (definitely Not!)
  – Searching is half the fun
Searching By “Legal High”

Google

Legal high

Search

About 512,000,000 results (0.19 seconds)

Everything

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am-hi-co.com/
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Legal intoxicant - Wikipedia, the free encyclopedia
en.wikipedia.org/wiki/Legal_intoxicant
Methedrone (Legal Highs or MCAT) is a synthesised substance similar in effect to cocaine and amphetamine, although legal to possess in some countries, ...

Legal Highs The Best In Alternative Stimulation : Shiva Head Shop
www.shivaheadshop.co.uk/shop/legal_highs/index.html
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Best Sellers
New Products

Typically, there is no law for a specific license to sell bath salts, plant feeders, incense, or potpourri among the states. These goods are too prolific for effective enforcement of licenses. The common practice is to ban the substances in the goods. These can be identified by chemical tests and is a lot less burdensome than asking every general goods store to have a license for a handful of products.

Our herbal blends, bath salts and pills are completely compliant to New Mexico state laws and Federal laws and possession, sale, import, export below mentioned products is completely lawful:

### Legal Products

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<th>Incense Blends:</th>
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Legal Highs and Incense are perfectly formulated to complement your moods and add some spice to your social gatherings.

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Searching By Agent

• Research active ingredient
  – Erowid
  – Legal Highs Forum

• Search for internet using active ingredient and the term “Buy”
  – E.g. “Buy MDAI”
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Psychactive Vaults

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MDAI

COMMON NAMES
MDAI

EFFECTS CLASSIFICATIONS
Empathogen; Entactogen

CHEMICAL NAME
5,6-methylenedioxy-2-aminoindane

DESCRIPTION
MDAI is a synthetic chemical that first became available via online vendors in 2009. Its effects are sometimes compared to MDMA (ecstasy), although significantly weaker and less stimulating.

HISTORY
MDAI Timeline

RESEARCH & JOURNAL ARTICLES
Nonneurotoxic Tetralin and Indan Analogues of [...] (MDA) - J Med Chem, 1990
Serotonin Neurotoxicity in Rats After Combined [...] - Pharmacol Biochem Behav, 1991
Synthesis and Pharmacological Examination [...] - J Med Chem, 1993

EXPERIENCES
A Flow of Loving Relaxation, by Zorgin
Alone, Has Very Little Recreational Value, by DocManhattan
A Very Psychedelic Surprise
MDAI
by FractalStructure

DOSE: T+ 0:00 100 mg oral MDAI (powder / crystals)
T+ 2:30 smoked Cannabis
T+ 6:00 smoked Cannabis

BODY WEIGHT: 150 lb

I'm a 24 year old male, and for a long time I was interested in the chemical MDAI. I saw it once or twice, and it looked like chocolate mix. So I never took that stuff, and it ended up being less than 50% MDAI anyway, so I'm glad I abstained. However, a year later or so after seeing that it was about to be banned federally, I decided to try some. This batch looked very different from the first, it was a tan shade, and quickly turned red using the marquis reagent (MDMA style, very fast reaction, the color was even similar but red not purple), and brown with mecke.

One thing I noticed is a serious lack of information about this substance on the internet, and the information that does exist can be very contradictory (because it has to do with subjective reports, and MDAI is known to sometimes be very impure, leading many people to consume other substances, sold as MDAI on “reputable” sources… the correct Marquis reagent color is not even empirically known, and varies from red to no reaction for supposedly pure MDAI). Regardless, from what I gathered I thought it'd be “a relaxing night with the missus”. I thought it would have the empathogenic effects of MDMA and all the serotonin activity but no speediness, and I expected it to be mild (it’s worth noting that a non-neurotoxic version of MDMA/MDA was the reason I was interested in the first place). Especially at the planned dose of 120mg, said to be on the small end. On top of that, about 20mg of my dose fell off the paper, so I ended up taking 100mg. My partner, L, took the full 120mg of the same batch.

30 mins
Laying in bed, talking for the past half hour, I wonder if I'm ever really even going to the come up... I have heard of that happening. Or whether the dose I took was too mild. Oh well, I figure. After getting up to go to the bathroom, I noticed that movement was a little different, and it was nice to feel my own skin. Even nicer to feel L in bed. My hands felt like they “sensed” more. But it wasn't anything intense.

Within about 10 mins, at some point, I felt a sharp, unexpected MDxx-like comeup, with startling intensity. Like MDMA, it went from “0-60” in 1 second. One second, nothing; the next second: EVERYTHING! This is feeling a little bit like mescaline, which surprises me. And then I realize...

1hr
This actually feels nothing like MDMA! But it feels SO MUCH like MDAI! In fact, it feels much trippier than MDA, and the MDA body feeling is very noticeable. L, who really likes tryptamines, was also very surprised by how psychedelic the experience was at this point. She remarked on how to her it kind of felt like a tryptamine (she is unfamiliar with MDA). Things were getting very dreamy, and it was very difficult to think of sentences to say. What was supposed to be a romantic night together was becoming a somewhat dissociated, silent night. Not that we didn't connect.
This is an educational community based support forum for harm minimization only. No sourcing, dealing or unlicensed vendor links.
I Want MDAI ... let's get some

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We have recently secured a new supply of extremely high quality MDAI directly from a leading research chemical lab in India. We are the only UK supplier selling this MDAI and we are certain that you will agree that it is the highest quality MDAI available in the country.

MDAI Gold is so called because it is a white powder with a slight golden sparkle. It has a much lower density than our other MDAI and reacts much more vigorously in a Mandelin, Marquis and Mecke test.

Although our older MDAI was a very high quality product, we believe that our MDAI Gold exceeds all other MDAI available in the UK. It is manufactured in one of the newest research chemical laboratories in the world using state of the art equipment and cutting edge synthesis techniques to ensure minimal impurities. There is no other MDAI of this quality available on the UK market and it must have for any serious researchers.

Buy MDAI with your credit or debit card today from our UK store, we have next day delivery available on all UK orders.

Due to supply issues we have restricted the maximum price break to 1g and 2g bags.
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Guaranteed to give your plants the feed they need to go go go! NOT FOR HUMAN CONSUM.

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**MDAI 10g**

**£174.00**

10 grams MDAI 5,6-METHYLENEDIOXY-2-AMINOINDANE. You can Buy MDAI, also known as 6,7-dihydro-5H-cyclopetna ben...

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**MDAI 5g**

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**£21.00**
Buy MDAI

(5,6-Methylenedioxy-2-aminoindane)

MDAI or Sparkle as it is otherwise known is one of the UK's most long standing research chemicals and one of the original products listed at chemicalwire.com and sister site researchdrugs.com.

What is MDAI?

The name of this research material is 6,7-dihydro-5H-indeno[5,6-d][1,3]dioxol-8-amine (MDAI). MDAI belongs to a class of research materials known as selective serotonin releasing agents. MDAI is available as a white powder and is the form of its hydrochloride salt. MDAI is designed for both cellular and animal models.

Buy MDAI online today at chemicalwire.com

There is only one manufacturer of genuine MDAI worldwide and chemicalwire.com along with a few other select websites have been given the rights to distribute and sell this chemical online in the UK and Europe.

As with all research chemicals, they are strictly not for human consumption and we only accept and deliver orders of MDAI within the European Union. Please see our terms and conditions of sale and/or help pages for further information.
Neuropharmacology of Getting High

- **Dopamine**
  - Euphoria, pleasure
  - => dysphoria, paranoia
- **Norepinephrine**
  - Increased lucidity
  - => hypertension, tachycardia
- **Serotonin**
  - Delusions, empathy
  - => serotonin syndrome
Our Menu For Today

• Cathinones
• Phenylethalamines
• Cannabinoids
• Ketamine/PCP derivatives
• Tryptamines
• Salvia divinorum
Synthetic Cathinones

• Availability
  – Sold as bath salts, insect repellants, plant food, and stain removers
  – Average Price: $20 per packet of powder.
Synthetic Cathinones

• Active Ingredients
  – Cathinone is derived from an African plant called Subbare Kat or Muktaree Kat (Catha edulis).
  – The published U.S. experience indicates that most products contain either 4-methylmethcathinone (mephedrone), 3,4-methylenedioxypyrovalerone (MDPV) or 3,4-methylenedioxymethcathinone (methylone). Some states (Louisiana) have also included 4-methoxymethcathinone (methedrone), 3-fluromethcathinone, and 4-fluoromethcathinone (flephedrone) in their Schedule I rule.
Synthetic Cathinones

• Pharmacology
  – Pharmacologic properties similar to amphetamine
  – Likely increase release of dopamine, norepinephrine and serotonin in various areas of the brain
Synthetic Cathinones

• Clinical Effects
  – Signs and symptoms consistent sympathetic overdrive (tachycardia, agitation, hypertension, mydriasis, tremor).
  – Onset is dependent on route of exposure (minutes to an hour)
  – The high lasts 3-4 hours. Total experience is 6-8 hours.
  – Users comment that there is an urge to re-dose while coming down from their high.
  – Higher incidence of paranoia, agitation and combative behavior than with other designer amphetamines? This results in bizarre behavior (e.g. shooting guns at non-existent police, self-mutilation, fights, suicide, homicidal activity).
Synthetic Cathinones

NMPDIC Call Highlights

- 63 exposures since 1/1/2010; 21 females, 42 males
- Average of 4-5 exposures per month
- Age ranges from 13 years to 71 years; most are between 18 and 30 years
- ¾ of the patients were in the hospital at the time the poison center was contacted.
- Most of the patients were agitated (45) and having hallucinations/delusions (10). Many were having tachycardia (53), hypertension (20) and some had chest pain (11). Six patients had seizures.
- Most were treated with benzodiazepines (15)

NMPDIC Data (1/1/10 to 5/29/12)
Synthetic Cannabinoids

• Availability/Use
  – Sold as incense products
  – Product names include: K2, Spice (Arctic Synergy, Diamond, Egypt, Gold, Silver, Tropical Synergy), Mr. Smiley, Zohai, Eclipse, Black Mamba, Aroma, Bliss, Bombay Blue, Dream, Fake Weed, Genie, Sence, Skunk, Smoke, Yucatan Fire
  – Average Price: $24-$75 per 3 gms of product.
Synthetic Cannabinoids

• Active Ingredients
  – A wide variety of different compounds capable of activating cannabinoid receptors. Examples include JWH-184, JWH-146, JWH-176; Naphthoylindoles (JWH-015, 018, 019, 073, 081, 122, 200, 210, 398), naphthylmethylindoles, naphthoylpyrroles, naphthylmethylindenenes, phenylacetylindoles (JWH-250, 253), cycloheylphenols (CP47, 497; CP47, 497-C8, CP55,940, cannibicyclohexanol), benzoylindoles (AM-694, RCS-4)
  – Usually sprayed onto herbs, spices and plant material. The active ingredient (e.g. JWH-018) has also been purchased separately and used to create “homemade K2”.
Synthetic Cannabinoids

• Pharmacology
  – Act on cannabinoid receptors CB1 (euphoria) and CB2 (immune and pain response).
  – Synthetic cannabinoids have higher affinities for cannabinoid receptors than THC.
Synthetic Cannabinoids

• Clinical Effects
  – Euphoria, paranoia, hallucinations, anxiety, irritability, tachycardia, heart palpitations, chest pain, vomiting, tremor, and hypokalemia.
  – Onset is within minutes when inhaled.
  – The high lasts 1-1.5 hours
  – Higher incidence of paranoia, agitation and chest pain in comparison to marijuana
  – Higher incidence of life-threatening clinical effects (e.g. seizures, coma, arrhythmia)
Synthetic Cannabinoids

NMPDIC Call Highlights

- 147 exposures since 1/1/2010; 27 females, 120 males
- Average of 8-12 exposures per month
- Age ranges from 11 years to 62 years; most are between 15 and 30 years
- 80% of the patients were in the hospital at the time the poison center was contacted.
- Clinical Effects: agitation (45), hallucinations (22), tachycardia (53) and hypertension (20) and vomiting (25). Some had conduction disturbances (QTc prolongation) (7), tremor (8), seizures (6), and chest pain (11).
- Common treatments were benzodiazepines (25), IV fluids (32), and oxygen (13).

NMPDIC Data (1/1/10 to 5/29/12)
Salvia Divinorum

• Availability/Use
  – Product names include: Salvia divinorum, Diviner’s Sage, Mystic Sage, Magic Mint, Sally D, ska Maria, ska Pastora, la Maria, heirba Maria, hojas de Maria, hojas de la Pastora,
  – Average Price: $15-$80 depending on concentration of extract used (5X, 20X, 40X, 60X, 80X).
Salvia Divinorum

- **Active Ingredients**
  - Diterpene called salvinorin A

- **Pharmacology**
  - Acts on κ opioid receptors to produce dissociation, delerium, hallucinations/delusions, sedation, and analgesia

- **Clinical Effects**
  - Altered mental state (confusion, disorientation, space-time disorientation), hallucinations, flushing, tachycardia, mydriasis, diaphoresis
  - When smoked salvia divinorum has a rapid onset and short duration of action (30 minutes). There can be lingering effects that last for hours.
Salvia Divinorum

• NMPDIC Calls
  – 5 exposures since 1/1/2010; all males
  – Age ranges from teen to adults most are 18 years old
  – 40% of the patients were in the hospital at the time the poison center was contacted.
  – The exposures occurred throughout the state
  – The patients we have managed are usually either hallucinating or disoriented.
Synthetic Phenylethethylamines

• Availability
  – Replacements for mephedrone
  – Indane & tetralin derivatives
    NRG-2
  – Pyrrolidine and piperidine ring derivatives
    Ivory Wave