UNIX COLLEGE of PHARMACY



Modern High: Using The Internet To Obtain Substances of Abuse

Blaine (Jess) Benson, Pharm.D., DABAT Regents' Professor, UNM College of Pharmacy Director, New Mexico Poison & Drug Information Center



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, phenylethyalmine, 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) Legal highs, head shop. Am-Hi-Co - Your number one head shop. Everything am-hi-co.com/ Images BEST PRICES ON LEGAL HIGHS, HERBAL HIGHS, BATH SALTS. Worldwide shipping. ONLINE HEAD SHOP. Maps Videos Legal intoxicant - Wikipedia, the free encyclopedia en.wikipedia.org/wiki/Legal intoxicant News Mephedrone (Legal Highs or MCAT) is a synthesised substance similar in effect to cocaine and amphetamine, although legal to possess in some countries, ... Shopping Discussions

Soutege of Pharmacy

Q

Legal Highs The Best In Alternative Stimulation : Shiva Head Shop www.shivaheadshop.co.uk/shop/legal_highs/index.html Whether you\'re looking for all-natural herbal blends or something with a high energy kick Shiva Head Shop provide a huge range of safe legal highs.

Albuquerque, NM Change location	Legal Highs: The #1 Shop for Safe Legal Highs and Legal Buds. www.legalhighs.net/
Show search tools	Dec 21, 2008 – The #1 Place for Legal Highs, Legal Buds, Rolling Papers, Vaporizers, Stimulants. Discreet Packaging. Industry Leaders.
	→ Most Common Herbs for Legal Legal Highs - Common Herbs - Lavender

More





DUNM COLLEGE of PHARMACY





SCHERE OF PHARMACY

- Extremely Strong Incense Blends Legal in Most US States
- Extremely Strong Incense Blends 100% Legal Worldwide
- Stimulating Bath Salts Powder Blends
- AM-HI-CO Ultra Pills Legal in USA, UK and Worldwide
- Super Pills Legal in USA, UK and Worldwide
- Original Ultra Pills
- Original Super Pills
- Entheogens
- Salvia Divinorum
- Poppers
- AM-HI-CO Herbal Blends
- Herbal Tea
- SEX PRODUCTS
- Herbal Resin
- Best Sellers
- New Products

are in force on the federal level and several states. The Federal Analog Act is a law that has serious concerns with its vague language along with the serious weakness of being limited to banning substances intended for "internal use".

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

Incense Blends:	Pills:	Powder Blends:
AM-HI-CO GOLD 5	AM-HI-CO MIND BLISS 1	BLISS 2
EX-SES-ORIGINAL 4	AM-HI-CO MELLOW MADNESS 1	BLISS 3
ICE BUD ORIGINAL 6	AM-HI-CO BLISS ULTRA 1	BLISS ULTRA 2
KI BLEND 5	AM-HI-CO BENZO EXTREME 1	BLISS ULTRA 3
SPICEY XXX ORIGINAL 4	AM-HI-CO EXTREME RUSH 1	IVORY DOVE 2
SPIKE 99 GOLD 6	AM-HI-CO SERENITY 1	IVORY DOVE 3
TRIBAL WARRIOR GOLD 5	AM-HI-CO RED DOVES 2	IVORY DOVE ULTRA 2
AM-HI-CO GOLD 6	AM-HI-CO RED DOVES 4	IVORY DOVE ULTRA 3
ICE BUD ORIGINAL 4	AM-HI-CO ROCKET FUEL ULTRA 2	MIND CHARGE 2
SPIKE 99 GOLD 5	AM-HI-CO ROCKET FUEL ULTRA 4	MIND CHARGE 3
ICE BUD ORIGINAL 1	AM-HI-CO DIABLO XXX EXTREME	MIND CHARGE ULTRA 2
KI BLEND 2	3	MIND CHARGE ULTRA 3
SPICEY XXX ORIGINAL 1	AM-HI-CO BLUE DOVES ORIGINAL	QUICK SILVER 2
EX-SES-ORIGINAL 1	AM-HI-CO DOVES ORIGINAL 3	QUICK SILVER 3
SPIKE99 GOLD 1	AM-HI-CO BLUE DOVES ULTRA	QUICK SILVER ULTRA 2
KI BLEND 1	AM-HI-CO DOVES ULTRA 3	QUICK SILVER ULTRA 3
TRIBAL WARRIOR GOLD 1	AM-HI-CO DYNAMITE N-R-G	AM-HI-CO OCEAN SNOW 2
AMUE 00 001 D 4	LILTON O	AN UI OO OOF AN ONOM 2

Main Pages

 Home About Us Contact Us Herbal Highs Legal Highs Bath Salts Herbal Incense San Pedro Cactus Ordering by credit/debit cards Newsletter CHECK LAW Ordering Information Shipping Information Shopping Cart Items:0, Value:0 Checkout View Cart Change currency + Conversion rates are for 2

COLLEGE

5



Tel: 020 8293 9231







100% NATURAL LEGAL HERBAL SMOKES

VIEW CART

Checkout | Ordering Info | FAQ

Wholesale Login | Customer Login

LEGAL SMOKES

Legal Buds

Legal Bud Specials

Herbal Smoke

Herbal Solid Smokes

Mood Enhancers

Smoking Oils

Smoking Blends

Herbal Shisha

EOUIPMENT

Herbal Vaporizers

Hookahs

Cool Pipes

Digital Scales

Rolling Papers

Clear Rolling Papers

ACCESSORIES

Herb Grinders





Jamaican Gold











DreamSmoke





Testimonials | Mail Orders | Order Tracking | Shipping | Returns Policy | Legal Bud Info | Privacy

INFO SUPPORT WHOLESALE AFFILIATES

Amazing Legal Bud From Legal Buds.com

The world's greatest legal bud and largest Herbal Smoke Shop, your #1 SOURCE for the world's BEST and most enjoyable legal smokes. 100% natural legal buds, herbal smoke, herbal vaporizer, mood enhancement, rolling papers, digital scales and more.

With countless satisfied customers each day and more legal herbal smokes sold than any other company, our unique line of exotic smokes and 100% legal herbs are the best in the world, hands down. Order today and enjoy your smokes within 2 business days with RUSH shipping!







Portable Vaporizers



Vaporizers **V-TOWER**



EXTREME Vaporizer







& Solids \$36.99 and up



Iolite



Customer Care +1 (0) 866 272 3002 customercare@herbalhighs.com

Opening Hours: Weekdays: 10:00 - 18:00 CET

21:24:10 CET



Search	Go>
	Creating and a second

Products Euphoric > Energising > Powders > Journeys > Herbal Incense > Botanical Herbs > Ethnobotanicals > Stimulants > Salvia > Kratom > Aphrodisiacs > Recovery Products > Promotions >

Brands

Happy Popper Herbal Highs Company Koru Retro Pills Total Highs

Promotion > New Products > Top 20 Bestselers > A-Z >



Our Top 5 Best Sellers

Pineapple Express 3g



Welcome to HerbalHighs, the #1 online Smartshop selling a huge range of Legal Highs, Herbal Highs, Stimulants, Aphrodisiacs and loads more. You must be over the age of 18 to purchase any of our legal high or herbal high products.

Searching By Agent

- Research active ingredient
 - Erowid
 - Legal Highs Forum
- Search for internet using active ingredient and the term "Buy"
 - E.g. "Buy MDAI"







Erowid Monthly ANEW What's New Donations Search About











EROWID

Documenting the Complex Relationship Between Humans & Psychoactives





<u>Plants & Drugs</u> <u>Mind & Spirit</u> Freedom & Law Arts & Culture Library









Click Here to Browse Securely using SSL Encryption



Psychoactive Vaults

ALCOHOL	AMANITAS	AYAHUASCA	CACTI	CAFFEINE	CANNABIS
COCAINE	DATURA	DMT	DXM	GHB	HEROIN
IBOGAINE	INHALANTS	KETAMINE	LSD	MDMA (ECSTASY)	METH
MORNING GLORY	MUSHROOMS	NITROUS	OPIATES	OXYCODONE	PEYOTE
SALVIA	TOBACCO	ZOLPIDEM	2C - B	5-MeO-DMT	MORE



Erowid Center helps ensure that people have access to reliable information about psychoactive drugs, serving information to more than 2.3 million people every month.

We need your help. Please <u>donate</u> to support Erowid.

5

Erowid's Big Chart Index

CHEMICALS	Main Vault	Basics	Images	Laws	Dose	Experiences	FAQs	Effects	Chemistry	Drug Testing	Health	History	Spiritual & Ritual	Cultivation	Books	Journal Articles	Writings	Media
<u>14b</u>	<u>0</u>		<u>0</u>	<u>0</u>		<u>0</u>			<u>0</u>									
2_aminoIndan	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>										<u>0</u>		
<u>2cb</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>		0				<u>0</u>		
2cb_fly	<u>0</u>		0			<u>0</u>		<u>0</u>										
<u>2cc</u>	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>	<u>0</u>									
2cc_nbome	0		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>										
2cd	0		<u>0</u>	0	<u>0</u>	<u>0</u>		<u>0</u>	0									
2cd 2ce 2cl	<u>0</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>		<u>0</u>										
<u>2ci</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			<u>0</u>	<u>0</u>								
2ci_nbome	0		0	0	0	0		0										
<u>2cp</u>	<u>0</u>		<u>0</u>	0	<u>0</u>	<u>0</u>		<u>0</u>										
2ct2	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>			<u>0</u>	<u>0</u>		<u>0</u>						
<u>2ct21</u>	0		<u>0</u>	0		<u>0</u>			<u>0</u>	<u>0</u>								
2ct4	<u>0</u>		<u>0</u>	0		<u>0</u>												
2ct21 2ct4 2ct7	<u>0</u>	<u>0</u>	<u>0</u>	0	<u>0</u>	<u>0</u>		<u>0</u>	0	0		0						
<u>3cp</u>	<u>0</u>			<u>0</u>		<u>0</u>												
4 acetoxy_det	<u>0</u>		0	0	0	0												
4 acetoxy dipt	0		0	0	0	0			0									

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 🍄 »»» MORE »»»

EXPERIENCES

A Flow of Loving Relaxation, by Zorgin D Alone, Has Very Little Recreational Value, by DocManhattan 🍄

A Very Psychedelic Surprise MDAI by FractalStructure

Citation: FractalStructure. "A Very Psychedelic Surprise: experience with MDAI (ID 94689)". Erowid.org. Mar 1, 2012. erowid.org/exp/94689

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

|--|

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 MDA! 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.

User Name	Password	Log in	Help	Register

Remember Me?

Legal Highs Forum

THIS IS AN EDUCATIONAL COMMUNITY BASED SUPPORT FORUM FOR HARM MINIMIZATION ONLY. NO SOURCING, DEALING OR UNLICENSED VENDOR LINKS.

Forum What's New? Today's Posts FAQ Calendar Community - Forum Actions - Quick Links -			Advanced Search
★ Forum Prug Forums Research Chemicals Forum If this is your first visit, be sure to check out the FAQ by clicking the link above. You may messages, select the forum that you want to visit from the selection below.	have to register	before you can post: click the register lin	nk above to proceed. To start viewing
+ Post New Thread Forum: Research Chemicals Forum RC's, Research Chemical Discussion Forum, Safety advice and information.	▼ Page 1	of 18 1 2 3 11 • Last • Threads 1 to 20 of 345	Super Fun Cave
Title / Thread Starter	Replies / Views	Forum Tools / Search Forum / Last Post By /	FUN
Started by BuyJwhCom, 11-30-2011 09:37 AM 1 2 3 10	Replies: 97 Views: 10,859	BuyJwhCom Today, 11:05 AM 🕨	ORDER NOW!
Started by Neo, 04-22-2012 08:03 AM	Replies: 0 Views: 568	Neo 04-22-2012, 08:03 AM 堕	
Started by Pandy, 04-29-2009 02:09 PM 1238	Replies: 75 Views: 14,423	downtownhumanoid 02-09-2012, 10:22 AM 🛄	Best Herbal Incense UK Only STRONG LEGAL INCENSE
Started by cam, 03-03-2009 11:27 PM 1 2 3 20	Replies: 199 Views:	big g 01-11-2012, 10:42 PM 💴	UK AND EUROPE ONLY!

I Want MDAI ... let's get some

Google	buy mdai	٩		jessbenson@c	omcast.net 👻
Search	About 324,000 results (0.24 seconds)		- S	SafeSearch on *	\$
Everything Images Maps	Buy MDAI Gold - VIP-Legals.com Buy Research Chemicals UK vip-legals.com/mdai-gold - United Kingdom Buy MDAI (Sparkle) from our UK shop. Extremely pure MDAI known more commonly as MDAI Gold. Next Day Delivery Available. Low Prices Guaranteed from				
Videos News Shopping	Buy MDAI Research chemicals MDAI 6-APB cheap dmc Online www.plantlabz.com/ Buy MDAI new research chemicals cheap and Latest plant food like benzo fury pellets, 6-APB, nrg2, aMT or 5 iai from Plantlabs and we guarantee next day → Jolly Green Granules - Energy-3 NRG-3 - Energy-3 NRG-3-1G - Login				
More Albuquerque, NM Change location	Buy MDAI - Buy Research Chemicals UK chemicalwire.com/research-chemicals/buy-mdai.html - United Kingdom The UK's No.1 source to Buy MDAI, buy Sparkle or buy Woof Woof. FREE Next Day Delivery is Guaranteed and we accept All Major Debit & Credit Cards Online!				
Show search tools	Buy Research Chemicals UK : Benzo Fury, MDAI & Ethylphenidate chemicalwire.com/ - United Kingdom Buy Research Chemicals Online FREE UK Delivery Buy AMT, MDAI, Ethylphenidate, Methiopropamine, 5-meo-dalt, Buy Benzo Fury, 5-APB & 6-APB.				
	Buy MDAI online in the UK, Sparkle Research Chemicals Woof www.purechemicals.net/buy-mdai-sparkle-15-c.asp Buy MDAI . The IUPAC name of this research compound is is 6,7-dihydro-5H- cyclopenta[f][1,3]benzodioxol-6-amine. Following the closure of the only lab that				
	Buy Methoxetamine, Benzo Fury UK, MDAI, DXM Online Research www.researchchemicals4u.com/ We supply the best research chemicals in the UK. Buy methoxetamine, benzo fury UK,				



COLLEGE of PHARMACY





Contact Us



VeriSign Secured

0330 1000 818 Eree for LIK Mobiles

🎒 My Account 🛛 🐺 My Cart 🝺 Checkout 🤌 Log In

Home / Research Chemicals / Buy MDAI

About Us

Home

Categories	В
Research Chemicals	(5,
RTI-31	(0,
5-Meo-Dalt	ME
5-IT Powder	che
6-APB Powder	dru
5-APB Powder	W
Benzo Fury	Th
Etaqualone	MD
Ethylphenidate	ME
Etizolam	des
Methiopropamine	B
MPA / MDAI Combo	Th
Buy Methoxetamine	few
Buy MDAI	the
Buy AMT	As
Camfetamine	sal
Synthacaine	16
Pellet Products	Ľ
AMT Pellets	
APB Pellets	
M & M Pellets	
Cannabinoids	
AM-2201	2
AM-2201 Incense Blend	E
UR-144 Incense Blend	£9.

Buy MDAI

Blog

(5,6-Methylenedioxy-2-aminoindane)

Product Analysis

MSDS

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.

Help Pages

What is MDAI?

The name of this research material is 6,7-dihydro-5H-indeno[5,6-d][1,3]dioxol-6-amine (MDAI). MDAI belongs to a class of research materials known as selective serotonin releasing agents. MDAI is available is available as a white powder and is the form of its hydrochloride salt. MDAI is lesigned 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 ale and / or help pages for further information.

	Sort By Price ↑		Show 15 rer page
MDAI CONTRACTION	MDAI Constantion Constantion	MDAI CC	MDAI CONTRACTOR
Buy MDAI 500mg	Buy MDAI 1g	Buy MDAI 2g	Buy MDAI 5g
£9.98 Add to Cart	£14.99 Add to Cart	£24.98 Add to Cart	£60.00 Add to Cart

MDAI Product Analysis



My Points

Please log-in or create an account, to use your points.

Log-in or create a new account

2 Blog

Recent Posts

RTI-31 On SALE!!... New Postage Prices Change to FREE Gift!! Etaqualone Available!! New Website Products New Website Introduction WERE MOVING!!... MXE BAN STARTS 5th APRIL

Categories

News Research-Drugs.Com News

Tags

benzo fury research chemicals 6-apb camfetamine mdai 5-apb amt amt pellets apb pellets





COLLEGE of PHARMACY

Neuropharmacology of Getting High



- Phenylethylamine
- Amphetamine Alpha-methyl phenylethylamine



- 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

- Availability
 - Sold as bath salts, insect repellants, plant food, and stain removers
 - Product names include: Arctic Blasting Station, Atomic, Bayou Revitalisant, Blaze ,Blitz, Blue Moon, Blue Silk, Bohemian Bath Salts, Bolivian Bath Salts, Dr. Booga Shooga, Cloud 9, Cloud 10, Columbian Odorizer, Cotton Cloud, Dream, Dynamite, Euphoria, Hurricane Charlie, Ivory Wave, Ivory Wave Ultra, Lady Bubbles, Legal, Love Potion 69, Moon Dust, Night Cap, NRG-1, Q Concentrated, Red Dove, Resin, Scar Face, Serenity, Super Clean Stain Remover, White Cloud, White Diamonds, White Dove, White Girls Bath Salts, White Lightening, Zoom
 - Average Price: \$20 per packet of powder.

- 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), 3fluromethcathinone, and 4-fluoromethcathinone (flephedrone) in their Schedule I rule.

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

- 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 nonexistent police, self-mutilation, fights, suicide, homicidal activity).

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)

- 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.

- 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, naphthylmethylindenes, phenylacetylindoles (JWH-250, 253), cycloheylphenols (CP47, 497; CP47, 497-C8, CP55,940, cannibicylohexanol), 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".

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

- 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)

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).



COLLEGE of PHARMAC

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 Phenylethalmines

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