

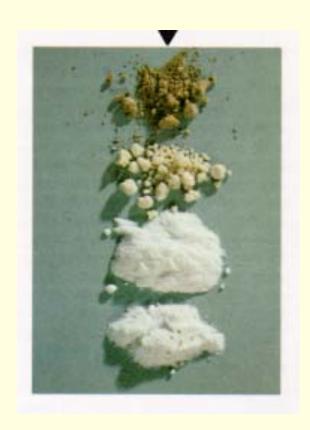
# Observational study of the long-term efficacy of ibogaine-assisted treatment in participants with opiate addiction

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Sponsored by: MAPS

# Can ibogaine treatment facilitate long-term recovery from addiction?





#### Outline

- I. Previous research on ibogaine treatment for substance dependence
- II. MAPS research design and current status
- III. Preliminary results
- IV. A call to collective research efforts

# Evidence for Efficacy

- ✓ A plethora of anecdotal evidence
  - 3,414 documented cases of ibogaine-assisted treatment through 2006 (K. Alper, H. Lotsof, and C. Laughlin (2008) *J. Ethnopharmacol.* 115 (1): 9-24)
  - Treatments by Lotsof, addict self-help groups in the Netherlands and in New York City, and providers such as Eric Taub (K. Alper, D. Beal, and C. Kaplan (2001) A Contemporary History of Ibogaine in the United States and Europe. *The Alkaloids* 56: 249-282)
- ✓ Animal studies show that it greatly reduces craving, withdrawal (e.g. S.D. Glick, M.E. Kuehne, J. Raucci (1994) Brain Res. 657: 14-22)

- ✓ Evidence from clinical studies (K. Alper, 2009 DPA Conference, Albequerque, NM)
  - Complete resolution of withdrawal symptoms in 29 of 33 subjects (Alper, Lotsof, Fremken, Luciano, and Bastiaans, Am J Addict1999 (8): 234-242)
  - In 27 cocaine- or heroin-addicted patients, "self-reported depression symptoms and craving were significantly decreased" at 1 month after ibogaine treatment (St Kitts study, D. Mash et al., Ann N Y Acad Sci. 2000 (914): 394-401)
- □ Lacking good data on long-term efficacy

# MAPS Ibogaine Outcomes Study

IOA-3

Protocol Design and Current Status



...to determine the effectiveness of ibogaine-assisted therapy in producing extended periods of opiate drug-use abstinence, in reducing opiate drug use, and in improving associated impacts of these behaviors as measured by the Addiction Severity Index Lite (ASI-Lite) composite scores over a period of 12 months following therapy.



...to determine the effectiveness of ibogaine-assisted therapy in producing extended periods of opiate drug-use abstinence...

(Measure: length of time from treatment until first relapse)



...in reducing opiate drug use...

(Measure and Compare: frequency and dosage of opiate use at baseline and at each monthly follow-up for 12 months)



...and in improving associated impacts of these behaviors as measured by the Addiction Severity Index Lite (ASI-Lite) composite scores over a period of 12 months following therapy.

| ALCOHOL/DRUGS                                                                                         |                                                           | ALCOHOL/DRUGS COMMENTS                    | ALCOHOL/DRUGS (cont.)                                                                                                             |                                                                  |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Route of Administ  1. Oral 2. Nasal 3. Smoking 4  Note the <u>usual or most recent route</u> . For mo | Non-IV injection 5. IV re than one route, choose the most | (Include question number with your notes) | How many times in your life have you been treated for:  D19* Alcohol abuse?                                                       | ALCOHOL/DRUGS COMMENTS (Include question number with your notes) |
| severe. The routes are listed from least severe                                                       | to most severe.  Lifetime Route of                        |                                           |                                                                                                                                   | 160 0123                                                         |
| (D1) Alcohol (any use at all)                                                                         | Past 30 Days (years) Admin                                |                                           | Include detoxification, halfway houses, in/outnatient counseling                                                                  |                                                                  |
| Alcohol (any use at an)                                                                               | QQ Q9 <b>•</b>                                            | DIMEN CO. CO.                             | and AA or NA (if 3+ meetings within one month period).                                                                            | sulaxone trong Dr                                                |
| D2) Alcohol (to intoxication)                                                                         | <u>aa</u> aa <b>a</b>                                     |                                           | How many of these were detox only: Alcohol?                                                                                       | made him feel lily                                               |
| Alcohol (to intoxication)                                                                             | rag rag                                                   | 11/- /                                    | D22 Drugs?                                                                                                                        | a Zombir                                                         |
|                                                                                                       |                                                           | heroix ~1 g 11/2 g/                       | If D19 = "00", then question D21 is "NN"  If D20 = '00', then question D22 is "NN"                                                |                                                                  |
| D3 Heroin                                                                                             |                                                           | 20 days                                   | How much money would you say you spent during the past                                                                            |                                                                  |
|                                                                                                       |                                                           | States Dune 2011                          | 30 days on:                                                                                                                       |                                                                  |
| ①4 Methadone                                                                                          |                                                           |                                           | D23 Alcohol?                                                                                                                      |                                                                  |
|                                                                                                       |                                                           | Ody contin 80-16                          | (D24) Drugs? ZOOO                                                                                                                 |                                                                  |
| Other Opiates/Analgesics                                                                              | 00 012                                                    | Oxy contra 80-16                          | <ul> <li>Only count actual money spent. What is the financial burden caused by<br/>drugs/alcohol?</li> </ul>                      |                                                                  |
| " a ass days have you b                                                                               | emi treatçal es                                           | 17 //19 a                                 | (D25) How many days have you been treated as                                                                                      |                                                                  |
| D6 Barbiturates                                                                                       | ावावे विवा                                                | 102400 MM 380-1                           | an outpatient for alcohol or drugs in the past 30 days? • Include AA/NA                                                           |                                                                  |
|                                                                                                       |                                                           | oxycolones                                | For Questions D28-D31, ask the patient to use the Patient Rating scale.                                                           |                                                                  |
| Sedatives/Hypnotics/                                                                                  | व्यवाच्याच्या                                             |                                           | The patient is rating the need for additional substance abuse treatment.                                                          |                                                                  |
| Tranquilizers                                                                                         | 190 109 IM                                                |                                           | How many days in the past 30 have you experienced:  D20 Alcohol problems?                                                         |                                                                  |
|                                                                                                       |                                                           | 1/4 8-                                    | How troubled or bothered have you been in the past 30 days by                                                                     |                                                                  |
| D8) Cocaine                                                                                           | (a) (a) 2                                                 | 148                                       | these                                                                                                                             |                                                                  |
|                                                                                                       | no care come a                                            |                                           | D28) Alcohol problems?                                                                                                            | Sanda Did                                                        |
| Amphetamines                                                                                          | 00 00 N                                                   | ,                                         | How important to you now is treatment for these:                                                                                  |                                                                  |
|                                                                                                       |                                                           | c 2/ ( /                                  | D30. Alcohol problems?                                                                                                            |                                                                  |
| D10 Cannabis                                                                                          | विष विष ड                                                 | Small of a state                          | How many days in the past 30 have you experienced: (D27). Drug problems?                                                          |                                                                  |
| e entre                                                                                               |                                                           | (1) of 1/4                                | Include only: Craving, withdrawal symptoms.                                                                                       |                                                                  |
| QL) Hallucinogens                                                                                     | M GD GD                                                   | (412 1 41 280                             | disturbing effects of use, or wanting to stop and being unable to.  How troubled or bothered have you been in the past 30 days by | sevents thre 7                                                   |
|                                                                                                       |                                                           |                                           | these                                                                                                                             | 2004/11/5 [7]                                                    |
| (DT2) Inhalants                                                                                       | व्यात्य व्या                                              |                                           | (D29). Drug problems?                                                                                                             |                                                                  |
| <u> </u>                                                                                              |                                                           |                                           | How important to you <i>now</i> is treatment for these:                                                                           | p p                                                              |
|                                                                                                       |                                                           |                                           | D3l) Drug problems?                                                                                                               |                                                                  |
| (D13) More than 1 substance per day (including alcohol)                                               | विये विय                                                  |                                           | CONFIDENCE RATINGS                                                                                                                | Page 6                                                           |
| D17. How many times have you                                                                          | had Alcohol DT's?                                         |                                           | Is the above information significantly distorted by:                                                                              |                                                                  |
| Delirium Tremens (DT's): Occur 24-4 significant decrease in alcohol intake, sl                        | 48 hours after last drink, or                             |                                           | D34. Patient's misrepresentation? 0-No 1-Yes                                                                                      |                                                                  |
| fever, , hallucinations, they usually requ                                                            | uire medical attention.                                   |                                           | D33 Patient's inability to understand? 0-No 1-Yes                                                                                 |                                                                  |
|                                                                                                       |                                                           |                                           | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                                                                             |                                                                  |

#### **ASI** -Lite Sections

- 1. Medical Status
- 2. Employment / Support Status
- 3. Drug/Alcohol Use
- 4. Legal Status
- 5. Family/Social Relationships
- 6. Psychiatric Status

| FAMILY/SOCIAL RELATIONSHIPS  F1. Marital Status:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | FAMILY/SOCIAL COMMENTS (Include question number with your notes) |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|--|--|
| 1-Married 3-Widowed 5-Divorced 2-Remarried 4-Separated 6-Never Married  • Common-law marriage = 1. Specify in comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Outh male 1 Fam                                                  |  |  |  |
| F3.) Are you satisfied with this situation?  0-No 1-Indifferent 2-Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Setting married 500                                              |  |  |  |
| Satisfied = generally liking the situation Refers to Questions F1 & F2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |  |  |  |
| 1-With sexual partner & children 1-With casual partner & children 1-With children alone 1-With parents 1-With parents 1-With family 1-Choose arrangements most representative of the past 3 years. If there is an even plit in time between these arrangements, choose the most recent arrangement.  7-No 1-Indifferent 2-Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |  |  |  |
| 0-10 1-municial 2-16s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                                                                |  |  |  |
| Do you live with anyone who:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mother alcoholic                                                 |  |  |  |
| Has a current alcohol problem? 0-No 1-Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 100.41.6                                                       |  |  |  |
| Uses non-prescribed drugs? 0-No 1-Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |  |  |  |
| 9.) With whom do you                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                  |  |  |  |
| spend most of your free time? 1-Family 2-Friend 1-Family 2-Friend 1-Family 2-Friend 2-Friend 1-Family 2-Friend 2-Friend 1-Family 2-Friend | Girlfrend                                                        |  |  |  |
| must refer to them as family throughout this section, not a friend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |  |  |  |
| 10) Are you satisfied with spending your free time this way?  • A satisfied response must indicate that the person generally likes the situation. Referring to Question F9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |  |  |  |
| ave you had significant periods in which you have                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |  |  |  |
| sperienced serious problems getting along with:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                  |  |  |  |
| 0 - No 1 - Yes<br>Past 3 <u>0 da</u> ys In Yo <u>ur L</u> ife                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |  |  |  |
| 18) Mother                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Father never in his life                                         |  |  |  |
| 9 Father D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | THE WALL IN WITH                                                 |  |  |  |
| 20 Brother/Sister                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - younge brothe                                                  |  |  |  |
| Sexual Partner/Spouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |  |  |  |
| 2) Children [v] [v]  -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | En 1 1 W                                                         |  |  |  |
| 3) Other Significant Family (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FEI GIC of the My                                                |  |  |  |
| 4) Close Friends                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |  |  |  |
| Neighbors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                  |  |  |  |
| 6) Co-workers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |  |  |  |
| erious problems" mean those that endangered the relationship                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |  |  |  |
| "problem" requires contact of some sort, either by telephone or in person.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |  |  |  |
| l anyone abuse you? 0- No 1-Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                  |  |  |  |
| B. Physically?  • Caused you physical harm.  • Sexually?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |  |  |  |

### Secondary Objectives:

- 1) to investigate: are changes in ASI scores after treatment related to subjective intensity of the experience? (States of Consciousness Questionnaire)
- 2) using Subjective Opiate
  Withdrawal Scale (SOWS), to see
  if ibogaine treatment reduces
  withdrawal symptoms



Looking back on your extended session you have just experienced, please rate the degree to which at any time during the session, you have experienced the following phenomena, In making each of your ratings, use the following scale:

- 0 none; not at all
- 1 so slight cannot decide
- 2 slight
- 3 moderate
- 4 strong (equivalent in degree to any previous strong experience or expectation of this description)
- 5 extreme, (more than ever before in my life and stronger than 4)

Please feel free to write informative or clarifying after any of the items in this questionnaire. If part of an item applies more to your experience than another part, please underline the part that applies.

- 1. Visions of abstract geometric patterns of colored lines.
- $\sum$ 2. Loss of your usual sense of time.
- 3. Feeling that the consciousness experienced during part of the session was more real than your normal awareness of everyday reality.
- 5. Experience of amazement.
- $\frac{7}{2}$  6. Sense that the experience cannot be described adequately in words.
- \_\_\_\_\_7 Sense of passing through stages in evolution.
- 8. Sense of the limitations and smallness of your everyday personality in contrast to the Infinite.
- <u>5</u>9. Gain of insightful knowledge experienced at an intuitive level.
- 5 10. Experience of overflowing energy.
- 11. Visions of sexual organs (genitalia, breasts)
- $\mathcal{L}$ 13. Emotional and/or physical suffering.
- 14. Experience of oneness or unity with objects and/or persons perceived in your

#### **Assessment of Withdrawal from Opioids**

#### The Subjective Opiate Withdrawal Scale (SOWS)



Date 7/10/11 Time 8:51

|    |                           | PLEASE SCORE EACH OF THE 16 ITEMS BELOW ACCORDING TO HOW YOU FEEL NOW (CIRCLE ONE NUMBER) |          |            |             |           |  |
|----|---------------------------|-------------------------------------------------------------------------------------------|----------|------------|-------------|-----------|--|
|    | SYMPTOM                   | NOT AT ALL                                                                                | A LITTLE | MODERATELY | QUITE A BIT | EXTREMELY |  |
| 1  | I feel anxious            | 0                                                                                         | 1        | 2          | 3           | 4         |  |
| 2  | I feel like yawning       | 0                                                                                         | 1        | 2          | (3)         | 4         |  |
| 3  | I am perspiring           | 0                                                                                         | 1        | (2)        | · 3         | 4         |  |
| 4  | My eyes are teary         | 0                                                                                         | (1)      | 2          | 3           | 4         |  |
| 5  | My nose is running        | 0                                                                                         | (1)      | 2          | 3           | 4         |  |
| 6  | I have goosebumps         | <u>(6)</u>                                                                                | 1        | 2          | 3           | 4         |  |
| 7  | I am shaking              | 6                                                                                         | 1        | 2          | 3           | 4         |  |
| 8  | I have hot flushes        | 0                                                                                         | 1        | <b>(2)</b> | 3           | 4         |  |
| 9  | I have cold flushes       | 0                                                                                         | 1        | 2          | 3           | 4         |  |
| 10 | My bones and muscles ache | 0                                                                                         | 1        | 2          | (3)         | 4         |  |
| 11 | I feel restless           | 0                                                                                         | 1        | 2          | 3           | 4         |  |
| 12 | I feel nauseous           | 0 .                                                                                       | Û        | 2          | 3           | 4         |  |
| 13 | I feel like vomiting      | (o)                                                                                       | 1        | -2         | 3           | 4         |  |
| 14 | My muscles twitch         | 6                                                                                         | 1        | 2          | 3           | 4         |  |
| 15 | I have stomach cramps     | 6                                                                                         | 1        | 2          | 3           | 4         |  |
| 16 | I feel like using now     | 0                                                                                         | 1        | 2          | (3)         | 4         |  |

Range 0-64. Handelsman, L., Cochrane, K. J., Aronson, M. J. et al. (1987) Two New Rating Scales for Opiate Withdrawal, *American Journal of Alcohol Abuse*, 13, 293-308.

#### **Assessment of Withdrawal from Opioids**

#### The Subjective Opiate Withdrawal Scale (SOWS)

Name Date

Date 7/12/11 Time

|     |                           | PLEASE SCORE EACH OF THE 16 ITEMS BELOW ACCORDING TO HOW YOU NOW (CIRCLE ONE NUMBER) |          |            |             |     |  |
|-----|---------------------------|--------------------------------------------------------------------------------------|----------|------------|-------------|-----|--|
|     | SYMPTOM                   | NOT AT ALL                                                                           | A LITTLE | MODERATELY | QUITE A BIT | EXT |  |
| 1   | I feel anxious            | (0)                                                                                  | 1        | 2          | 3           |     |  |
| 2   | I feel like yawning       | 6                                                                                    | 1        | 2          | 3           |     |  |
| 3   | I am perspiring           | 6                                                                                    | 1        | 2          | 3           |     |  |
| 4   | My eyes are teary         | 0                                                                                    | 1        | 2          | 3           |     |  |
| 5   | My nose is running        | 6                                                                                    | 1        | 2          | 3           |     |  |
| 6   | I have goosebumps         | 0                                                                                    | 1        | 2          | 3           |     |  |
| 7   | I am shaking              | 6                                                                                    | 1        | 2          | 3           |     |  |
| 8   | I have hot flushes        | (i)                                                                                  | 1        | 2          | 3           |     |  |
| 9   | I have cold flushes       | (6)                                                                                  | 1        | 2          | 3           |     |  |
| 10  | My bones and muscles ache | 6                                                                                    | 1        | 2          | 3           |     |  |
| 11  | I feel restless           | 0                                                                                    | 1        | 2          | 3           |     |  |
| 12  | I feel nauseous           | <b>©</b>                                                                             | 1        | 2          | 3           |     |  |
| .13 | I feel like vomiting      | 6                                                                                    | 1        | 2          | 3           |     |  |
| 14  | My muscles twitch         | 0                                                                                    | 1        | 2          | 3           |     |  |
| 15  | I have stomach cramps     | 0                                                                                    | 1        | 2          | 3           |     |  |
| 16  | I feel like using now     | (ô)                                                                                  | 1        | 2          | 3           |     |  |

Range 0-64. Handelsman, L., Cochrane, K. J., Aronson, M. J. et al. (1987) Two New Rating Scales for Opiate Withdrawal, *American Journal of Alcohol Abuse*, 13, 293-308.

# Secondary Objectives:

- 3) to determine the effectiveness of ibogaine-assisted therapy in producing extended periods of relief from depression using the Beck Depression Inventory
- 4) to track changes in Emotional Intelligence (using the Trait Emotional Intelligence Questionnaire, Short Form (TEIQue-SF) to observe concomitants of possible relapse into substance use.

  Mojeiko--Ibogaine



#### Study Design

- \*Enroll and Follow 30 subjects for one year post-treatment (ASI before treatment + monthly for 12 months after treatment)
- \*Clinics in Baja California, Mexico
- \*Initial (enrollment / baseline) interview in person or video Skype, additional interviews by phone

\*Inclusion/Exclusion Criteria

#### Study Design

- \*Secondary measures:
  - >SOWS 1x before and 1x after treatment
  - >SOCQ and Brief Description after treatment
- \*Control group of people who come to clinic but are denied treatment for medical reasons

# Study Design

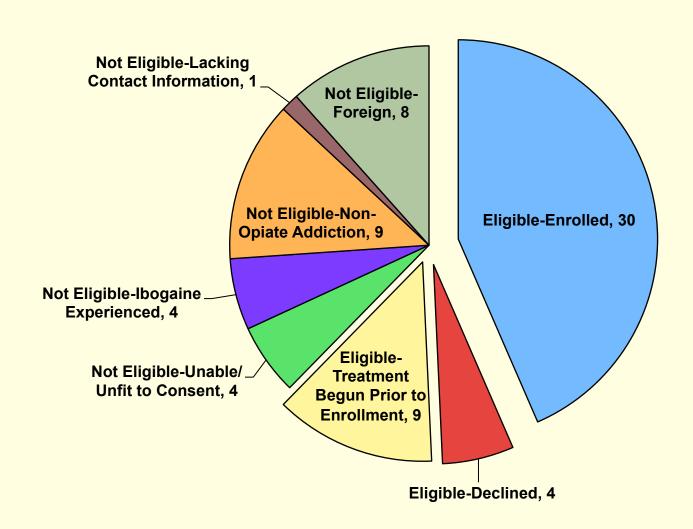
- \*Compensation--\$10 per monthly "visit"
- \*Calls with Significant Other (monthly)
- \*Drug Testing (2x hair (preferred) or 3x urine) (subject compensated \$55 / \$35 per test)
- Other Secondary Measures: baseline and monthly \*Beck Depression Inventory
- \*Test of Emotional Intelligence Questionnaire, Short Form (TEIQuie-SF)

#### **Current Status**

- 30th and final subject enrolled late August, 2011
- Final follow-up call completed last month
- Patient Screening: 67 patients treated during enrollment period (37 did not enroll)
- No control group

#### **Patient Screening Data**

(Number of Patients)



# **Preliminary Results**

- Safety: no adverse events directly related to ibogaine treatment (n=67)
- Several patients (n = 7) treated multiply
- n = 12 subjects declared "Lost to Followup"
- Aftercare: N = 5 (3 residential rehab, 2 halfway house)

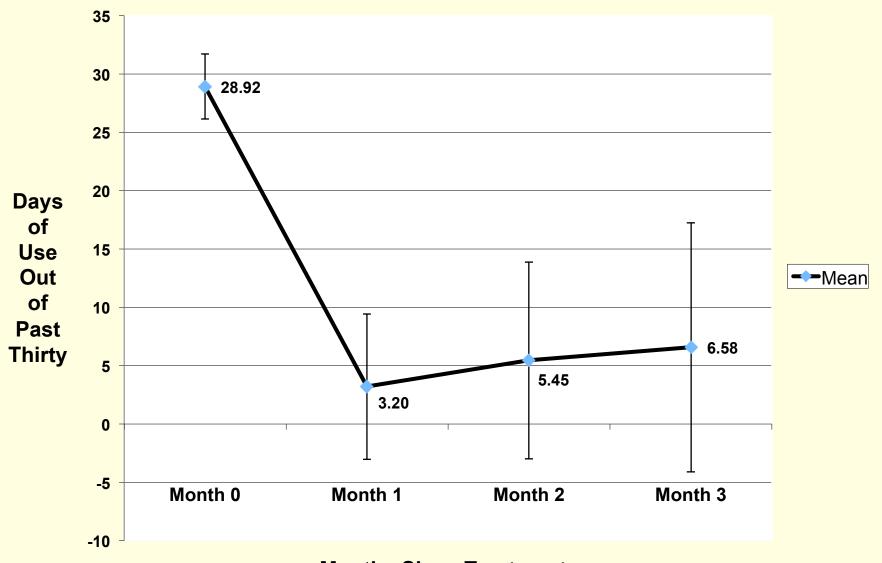
# **Preliminary Results**

 ASI scores, secondary measure scores not yet analyzed

 Duration until first relapse (opiates) posttreatment

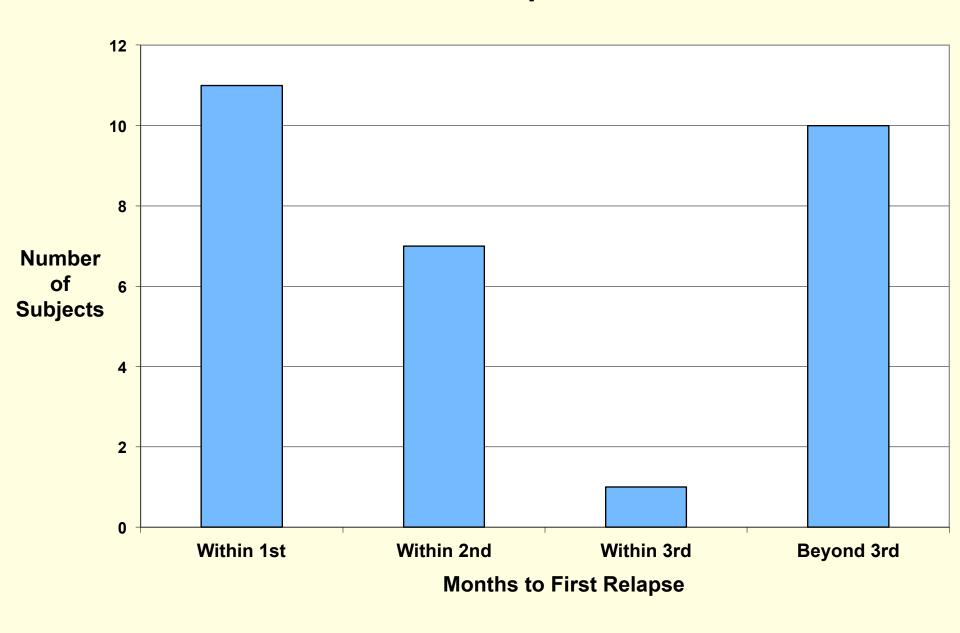
 Baseline opiate use (frequency) vs. opiate use at 1, 2, and 3 months post-treatment

#### **Mean Opiate Usage Months 0-3**



**Months Since Treatment** 

#### When First Relapse Occurred



> 1/3 relapse within first months

60% relapse within first 2 months

80% relapse within first 6 months

> 1/3 relapse within first months

60% relapse within first 2 months

80% relapse within first 6 months

20% make it more than 6 months (5 of 6 without any "aftercare" at all)

4 out of 30 (>1/8) "clean" for > 1 year following a single treatment

#### Reflections

- Confirmation that Ibogaine is an addiction interrupter -- not a cure, not a "magic bullet"
- What are the determinants of long-term outcomes?
- The importance of patient's expectations

# Strengths and Limitations of IOA-3

- Small "n"
- Many subjects unreachable month to month (→ LTFU)
- Some subjects reluctant to talk about relapses

- Strictly observational and so not affecting outcomes
- Standardly used measures (legitimacy, ease of comparison)
- Careful recordkeeping
- 1st of its kind

# New Zealand Ibogaine Study Geoff Noller, PhD



- Ibogaine approved as prescription medicine in NZ (2010)
- Study began early 2012
- Aims to enroll 30 patients

#### A Call to Collective Research

• More data = better!

- Why collect data and make it public?
- 1 Scientific studies can demonstrate efficacy beyond doubt
- 2 Providers and patients can better assess efficacy and risks and determine best practices based on collective, shared data

#### What to Measure and Track?

#### Minimally

- 1. Substance use at baseline
- 2. Dosing schedule (iboga(ine) and other)
- 3. Previous treatments (iboga and other)

#### Recommended

- 1. EKG and other physical data related to safety, dosage
- 2. SOWS, QOL, any aftercare
- 3. Follow-up measures

#### What Instruments to Use?

- Severity of addiction: ASI-Lite or Severity of Dependence Scale (5 items)
- SOWS (available for free online)
- Beck Depression Inventory (or for free: Zung self-rating Depression Scale, also widely used)
- Ferrans and Powers QLI generic or WHO
   Quality of Life ("open-source")
- Self-reported craving scale (PhenX Toolkit)

#### Who's going to do this?

- Who will collect the data? (Clinicians? Interns?)
- Who will compile (and analyze) the data from various clinics?
- How can it be made available publicly?

→ Global (online) clearinghouse for shared data?

#### Continuing the Conversation

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