From these reports, we can be pretty sure that MDMA does not cause Parkinson’s disease. The next question is: can it treat PD? Recently, studies conducted at Duke University Medical Center (Somikova et al. 2005) found that MDMA was the most effective of 60 drugs tested in a mouse model of PD. Previously, other researchers reported reversal of PD-like symptoms, such as being unable to move or being stuck in one position, in rats and monkeys given MDMA or MDMA-like compounds (MDA, MDA, as well as non-entactogenic amphetamines (Banjew 2003, Iravani et al. 2003, Lebsanft et al. 2003, Lebsanft et al. 2005; Schmidt et al. 2002). In the previous studies, the researchers modeled PD either by giving animals a drug that interferes with the dopamine system, or they damaged the animal’s dopamine system. The Duke team simulated PD by looking at genetically engineered mice lacking the dopamine transporter (the molecule that recycles dopamine) before and after giving them a drug that stopped them from making dopamine. They examined a large number of compounds, including drugs that influenced the serotonin and dopamine systems. Very high doses of MDMA improved PD-like symptoms in the mice, and lower doses of MDMA combined with anti-PD drugs, such as carbidopa or L-DOPA, also helped the dopamine-deficient mice.

Much of this research seems to have been instigated by the account of Tim Lawrence, a British man with young-onset PD who appeared in the media claiming that he used MDMA therapy in treating PD. The Duke team believes that MDMA and other drugs may help treat PD symptoms through their action on the newly discovered trace amine receptor.

However, none of the findings described above suggest that MDMA or any related entactogens are going to be a suitable PD medication. Even if low doses of MDMA do treat PD when combined with other medications, they are not likely to be a viable, practical solution, since daily dosing with MDMA is likely to increase risks of potential neurotoxicity. More to the point, unlike Tim Lawrence, most people with PD are older and are more likely to have, or be at risk for, conditions that make using MDMA a bad idea, such as heart problems or stroke risk.

In the initial tests performed by the Duke team, the doses of MDMA used were extremely high, bordering on acutely toxic-in some cases up to sixty times higher than doses that can be safely administered to humans. They used doses comparable to those used by humans in later tests, but in these cases the researchers combined MDMA with other drugs that increase or enhance dopamine, such as carbidopa or L-DOPA. Previous studies, like that of Iravani and colleagues, used lower doses, between 10 mg/kg and 12 mg/kg in marmosets, which are not lethal but still probably neurotoxic.

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There are at least four good reasons not to encourage people to self-medicate with street Ecstasy, and at least three for not even doing so with pure MDMA. These include general problems with the identity and strength of anything bought on the street, general health-related issues (everything from tolerance to the possibility of neurotoxicity arising from daily dosing), and health issues in people with Parkinson’s disease (cardiovascular problems or hidden cerebrovascular problems).

While the idea is intriguing, it’s difficult to see MDMA or a known entactogen being used as a treatment for PD. One important avenue of research, however, could be the use of an entactogen as a “rescue” medication for dyskinesia, but MAPS isn’t in a position to initiate such research since we still have several MDMA psychotherapy studies that need funding. It is possible but unlikely that the future treatment for PD might be an entactogen, but it’s way too early to tell.
The UDV, Uniao do Vegetal (UDV), a religious organization in Brazil, filed a lawsuit in the United States to import and use ayahuasca, also known as hoasca, for religious purposes.

In 1999, the UDV was detained by US Customs at the LaGuardia International Airport in New York when试图 to importayahuasca, also known as hoasca, as a religious sacrament. The ayahuasca was destined for the American branch of the Brazilian-based Uniao do Vegetal (UDV), whose members drink ayahuasca as a sacred communion. When Customs refused to allow the ayahuasca through, and threatened to destroy it, the UDV filed a federal lawsuit against the Attorney General seeking a court order that the government return the ayahuasca and permit the UDV to import and use ayahuasca in their religious ceremonies.

Before the trial began, the UDV moved for a preliminary injunction, requesting that its members be permitted to import and use ayahuasca in their religious ceremonies prior to, during, and following the trial. Although the government conceded that the UDV was a genuine religious organization, whose members were sincerely in the use of ayahuasca for religious purposes, the government opposed the preliminary injunction on the ground that ayahuasca is an illegal mixture containing DMT and hence any use of it was prohibited by the federal Controlled Substances Act. The UDV replied that the Religious Freedom Restoration Act (RFRA) protected their use of ayahuasca.

A hearing was held and the district court subsequently ruled in favor of the UDV, granting the preliminary injunction. The government appealed and lost in the Court of Appeal for the Tenth Circuit. After being denied a second appeal to the Tenth Circuit, the government appealed to the Supreme Court of the United States.

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By Richard Glen Boire, Esq.