

Summary

In-Home Deactivation System for Psychoactive Drugs Contract No. HHSN271201400068C NIDA Reference No. N44DA-14-4420

Home User and Prescriber Surveys

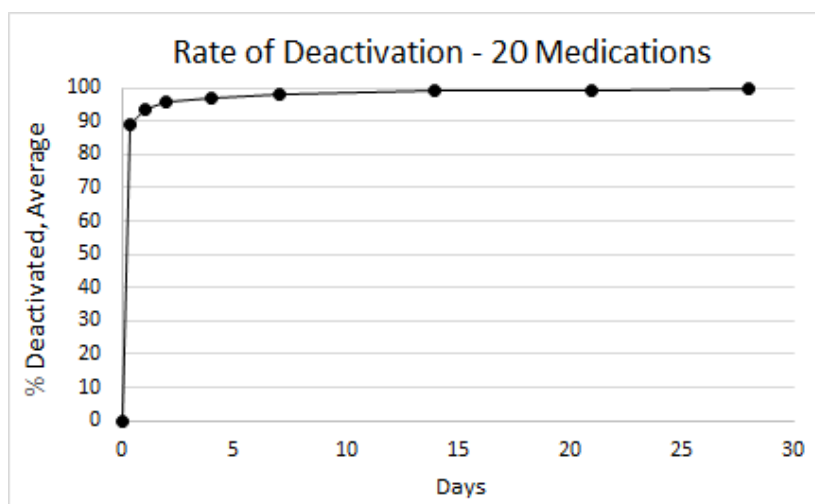
When consumers became aware of the Deterra System, they were enthusiastic and used the product almost immediately. 91% of all respondents were motivated by concern for the environment, with 45% citing concern about drug abuse or diversion, and 37% citing concern about accidental poisoning.

Providers of Deterra were similarly enthusiastic about the System, and indicated high concern for the environment, though a significantly higher percentage of them also cited concern for abuse/diversion and/or accidental poisoning.

Deactivation Studies

Multiple formulation types were examined including tablets, capsules, liquids, sublingual films and transdermal patches.

The activated carbon system was highly effective in adsorbing and deactivating all of the drugs tested. An average of 89% of API adsorbed within the first 8 hours, and greater than 99% was deactivated at 14 days as illustrated in the following chart:



The adsorbed pharmaceuticals were resistant to leaching by water, with only trace amounts detectable after an extensive washout.

The adsorbed pharmaceuticals were resistant to leaching by a washout procedure with 30% ethanol, with few exceptions. This demonstrated that the activated carbon was effective in rendering adsorbed pharmaceuticals unrecoverable by simple means.

Product Stability

Accelerated ageing studies predict >10 years stability at room temperature.

Adverse Events & Complaints

No product complaints or adverse events were reported.

