Presence of Methylphenidate in the illegal drug market: analysis of samples submitted to a drug checking facility

P. Quintana1,2, M. Grifell3,4, Á. Palma3,4, C. Gil5, I. Fornis1, L. Galindo6, M. Farré4,5,6, M. Ventura1,4, M. Torrens2,4,7

1Energy Control, Associació Benestar i Desenvolupament, Barcelona, Spain. 2EAP Raval Sud, ICS, Barcelona, Spain. 3Institut de Neuropsiquiatria i Addiccions, Parc de Salut Mar, Barcelona, Spain. 4IMIM (Hospital del Mar Medical Research Institute), Barcelona, Spain. 5Departament de Farmacologia clínica, Universitat Autònoma de Barcelona, Barcelona, Spain. 6Hospital Germans Trias i Pujol, Servei de Farmacologia Clínica, Barcelona, Spain. 7Departament de Psiquiatria, Universitat Autònoma de Barcelona, Barcelona, Spain

Introduction

Methylphenidate is a CNS stimulant approved for treatment of ADHD. It is generally considered well tolerated and exhibiting low dependence potential, although diversion for recreational use has been described (Bogle & Smith, 2009). Provided that its effects are comparable to those of more popular drugs of abuse, such as cocaine and amphetamines, we hypothesized that it could be sold as such.

Objective

The aims of this study were:
1. To describe the presence of Methylphenidate from the samples handled to, and analyzed by, Spanish harm-reduction service Energy Control.
2. To determine whether it is being sold as other drugs.

Materials and methods

We analyzed all samples screened from August 2009 to August 2015 (n=20.333), in which Methylphenidate was found. Energy Control is a Spanish harm-reduction non-governmental organization that offers users the possibility of analyzing the substances they intend to consume.

Results

Out of a total 20.333, 17 samples contained methylphenidate

Number of samples containing methylphenidate delivered per year (n=20.333)

Samples containing Methylphenidate were delivered as (n=17)

Discussion

Results show a small number of samples where methylphenidate was detected. Some of them were sold as other drugs, although the number is also very small.
One unknown substance was a mixture of Methylphenidate, Lidocaine and Ephedrine, probably with the intention to mimic the effects of cocaine.
One sample containing Methylphenidate was sold as BK-2CB; this finding is puzzling and likely a confusion when handling the substance, as effects differ greatly.

Conclusion

Presence of Methylphenidate in the Spanish illegal drug market seems anecdotic and maintained over the studied timeframe. Moreover, it was sold as substances with similar dosages, lowering potential for life-threatening intoxications. Therefore, our results partially support our hypothesis, but suggest that diversion of Methylphenidate into the Spanish drug market might not a concern phenomenon.

Bibliography


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