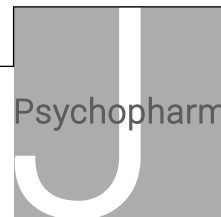


# Restrictions on drugs with medical value: Moving beyond stalemate

Tom P Freeman<sup>1,2</sup> , Mitul A Mehta<sup>3</sup>, Joanna C Neill<sup>4</sup>, David J Nutt<sup>5</sup>, Elizabeth M Tunbridge<sup>6,7</sup> and Allan H Young<sup>8</sup>



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A key task for psychopharmacology is to establish which medicines can provide optimal clinical benefit with minimal levels of harm. Drugs that are considered to have no medical value and a high risk of misuse or harm are listed in Schedule 1 of the UK Misuse of Drugs Regulations (2001); these currently include cannabis, 3,4-methylenedioxymethamphetamine (MDMA) and psilocybin. Schedule 1 drugs cannot be possessed or prescribed by clinicians, and research is only permitted under a Home Office licence that is costly and time intensive to obtain.

By contrast, drugs that are deemed to have medical value despite a high liability for misuse or harm are placed in Schedule 2, including diamorphine, cocaine, amphetamines and ketamine. Research on these drugs is less restricted. They can be legally possessed by people with a prescription, and possessed and supplied by pharmacists, doctors and dentists. Restrictions are lower still for drugs with widespread medical use listed in Schedules 3–5, such as buprenorphine and diazepam. In light of accumulating evidence supporting the medical value of Schedule 1 drugs including cannabis (Whiting et al., 2015), MDMA (Mithoefer et al., 2018) and psilocybin (Ross et al., 2016), this legislation creates a barrier to research and the advancement of medical science.

As part of a three-year commission from the Home Secretary, the Advisory Council on the Misuse of Drugs (ACMD) has been engaged in consultations on how research using Schedule 1 drugs might be facilitated (Advisory Council on the Misuse of Drugs, 2017). Based on their initial consultations, several suggestions were raised by the research community. These included a blanket exemption from Schedule 1 for research (like the Psychoactive Substances Act, 2016) or the provision of a single organisational licence to bring exemption from Schedule 1 requirements for academic institutions.

To capture the views of the British Association for Psychopharmacology (BAP) in these consultations, we conducted a survey in May 2018 on our members' experiences of conducting research using controlled drugs. We received 23 detailed responses from members with a range of backgrounds, including those in a clinical, preclinical and industrial setting. Only two of these 23 respondents had no suggestions for improvement. Overwhelmingly, our members consider that the current legislative framework requires improvement to facilitate research. Specifically, Home Office licences were reported to be prohibitively costly (requiring both an initial and renewal fee, and highly specific and costly requirements for storage). Furthermore, they were reported to create an unnecessary

administrative burden and significant delays that could not be scientifically justified, given the low levels of risk compared to Schedule 2 drugs such as diamorphine (heroin).

To give specific examples, in some cases the Home Office had requested ethical approval before granting an initial licence; however, the relevant ethics committee had in turn requested Home Office approval before accepting an application – a classic 'catch 22' situation – causing significant frustration, excess paperwork and long delays. From an industry perspective, our members reported that opportunities to work internationally had to be declined due to the excessive costs associated with the multiple import and export licences required under the current framework. The limited duration of import and export licences raised further challenges. Our members suggested that research councils should be made aware of these issues, as it may be necessary to request additional resources and time to complete research studies. As one respondent put it: 'As it stands, it is so difficult to even contemplate research in this area as you almost have to think "Right, we might, if all goes well, be able to start in two years"'.

Several respondents pointed out that the current system is unnecessarily burdensome for researchers working with small quantities of Schedule 1 drugs. The Misuse of Drugs Regulations (2001) lists an exemption for small quantities. However, apart from lysergide or any other *N*-alkyl derivative of lysergamide (1 mcg) there is no drug-specific level of exemption, and 1 mg applies to all drugs. Problems were reported with obtaining a small quantity of a cannabinoid (total 10 mg delta-9-tetrahydrocannabinol), leading to significant delay of a PhD student's submission and their supervisor, an associate professor of psychiatry, deciding to

<sup>1</sup>National Addiction Centre, King's College London, UK

<sup>2</sup>Department of Psychology, University of Bath, UK

<sup>3</sup>Department of Neuroimaging, King's College London, UK

<sup>4</sup>Division of Pharmacy and Optometry, University of Manchester, UK

<sup>5</sup>Neuropsychopharmacology Unit, Imperial College London, UK

<sup>6</sup>Department of Psychiatry, University of Oxford, UK

<sup>7</sup>Oxford Health NHS Foundation Trust, Warneford Hospital, Oxford, UK

<sup>8</sup>Department of Psychological Medicine, King's College London, UK

## Corresponding author:

Tom P Freeman, National Addiction Centre, Institute of Psychiatry, Psychology and Neuroscience, King's College London, 4 Windsor Walk, SE5 8BB, London, UK.

Email: tom.freeman@kcl.ac.uk

abandon this line of research altogether: 'In short, I can tell you without hesitation that the current legislation surrounding controlled drugs is stifling research in this area: it has essentially dissuaded me from continuing my work. I no longer work on controlled drugs'.

In contrast, experiences of working with Schedule 2 drugs were reported more favourably, providing a potential framework for legislation moving forwards:

'We routinely use schedule II drugs for experiments in animals. Process for ordering and management work well. Schedule I drugs are much more difficult due to additional licensing which effectively precludes using these compounds despite potential value for preclinical research'.

Notably, the additional restrictions for Schedule 1 drugs were not considered scientific or appropriate given the level of risk:

'The difference in regulations for using Schedule 2 drugs e.g. PCP and Schedule 1 drugs e.g. cannabinoids, and difficulty in using Schedule 1 drugs is not evidence-based or scientific. The current UK drug laws are clearly hindering research at all levels'.

Although the ACMD initially considered that a blanket exemption of Schedule 1 restrictions for the research community would not be workable (Advisory Council on the Misuse of Drugs, 2017), feedback from our survey highlighted that a similar exemption already exists, as university research departments are not required to hold a Home Office licence to possess and supply drugs in Schedules 2–5. The respondent argued that extending this exemption to Schedule 1 should not be problematic or lead to 'unintended consequences' as anticipated by the ACMD (Advisory Council on the Misuse of Drugs, 2017, p. 3).

Shortly after our survey was completed, a high-profile case emerged in which a 12-year-old boy named Billy Caldwell and his mother travelled to Canada to obtain cannabis oil to control his epileptic seizures. When they returned to the UK on 11 June 2018, the cannabis oil was confiscated by the Home Office. The situation escalated when Billy was admitted to hospital with severe and potentially life-threatening seizures, resulting in an unprecedented decision from the Home Office to return the cannabis oil on 16 June 2018. The Home Secretary, Sajid Javid, commissioned a two-stage review on medicinal uses of cannabis products, and a coalition of academics and clinicians led by several members of the BAP called on the government to remove them from Schedule 1.

The first stage of the review conducted by the Chief Medical Officer, Sally Davies, stated:

There is now however, conclusive evidence of the therapeutic benefit of cannabis based medicinal products for certain medical conditions and reasonable evidence of therapeutic benefit in several other medical conditions... As Schedule 1 drugs by definition have little or no therapeutic potential, it is therefore now clear that from a scientific point of view keeping cannabis based medicinal products in Schedule 1 is very difficult to defend' (Davies, 2018, p. 2).

The second stage of the review conducted by the ACMD agreed with this conclusion, recommending that cannabis-derived medicinal products (once clearly defined) should be moved from Schedule 1 to Schedule 2 (Advisory Council on the Misuse of Drugs, 2018).

The Home Secretary announced on 26 July 2018 that cannabis-derived medical products would be moved Schedule 2. He should be commended for rapidly commissioning these two reviews, and for informing his decision using scientific evidence. This historical move broke the longstanding and illogical stalemate of holding drugs with medical value in Schedule 1. In their commissioned review, the ACMD also concluded that: 'It is important that cannabis is not seen in isolation but as an example of a wider issue of potential "barriers to research" associated with other drugs in Schedule 1' (Advisory Council on the Misuse of Drugs, 2018, p. 3). In light of the efficiency with which cannabis products were reviewed – and the clear conclusions reached – we now hope that scientific evidence and review can challenge the Schedule 1 status of other potential medicines, including MDMA and psilocybin.

In conclusion, the results of our survey clearly demonstrate that current UK legislation hampers research into the consequences, and potential therapeutic benefits of Schedule 1 drugs. We praise the government's rapid response to cannabis based-medicinal products, and hope this will encourage further debate about the Misuse of Drugs Regulations (2001) and its impact on the field of psychopharmacology.


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The author(s) declared the following potential conflicts of interest with respect to the research, authorship, and/or publication of this article: All authors are Officers or Council Members of the BAP. For a regularly updated list of their declarations of interest, please refer to the BAP website: <https://www.bap.org.uk/council.php>.

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### ORCID iD

Tom P Freeman  <https://orcid.org/0000-0002-5667-507X>

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