among opioid maintenance patients

Findings Disulfiram (Antabuse) can not only reduce drinking but also cocaine use among patients being treated for opiate addiction.

frequently using cocaine. A quarter were dependent on alcohol.

Patients were warned about the unpleasant effects drinking on

12 weeks they were randomly allocated disulfiram or placebo

eliminated and cocaine and heroin use fell on both disulfiram and

placebo, but cocaine use dropped further and faster on disulfiram. The effect was moderate but statistically significant, and evident in

non-drinkers as well as drinkers.

have a limited impact on cocaine use.

studies are few and not always convincing.

explain why patients were willing to take the pills.

treatment, the initiative will have been counterproductive.

Disulfiram may help cocaine users become abstinent, but many can already take a break from the drug without difficulty. Maintaining remission is the difficulty. Cognitive-behavioural relapse prevention strategies are likely to be important as is the reconstruction of deeply damaged social, family, economic and work lives and co-working with the criminal justice system. The prolific criminality needed to maintain

In study 2, after entering buprenorphine maintenance 20 patients dependent on opiates and cocaine were given disulfiram or placebo for 12 weeks. At entry to the study drinking was negligible. Patients were warned about unpleasant interactions between disulfiram and alcohol or cocaine. Disulfiram patients were abstinent from cocaine for nearly eight weeks as opposed three for the placebo group, used

large the differences were not statistically significant.

Disulfiram treatment of alcoholism, issue 6

cocaine less and less often, and reduced use more

In context A large and probably under-estimated minority of Britain's methadone patients are regular cocaine users and a minority drink very heavily. Current regimes do little to affect alcohol use and

Cocaine dependents are often also heavy drinkers and use of one drug predisposes to use of the other. Alcohol is used to soften cocaine's adverse effects and to intensify its desired effects. Disrupting this relationship by blocking alcohol use is the main rationale for disulfiram treatment of cocaine dependence, one previously shown to work in cocaine users not on methadone. The featured studies suggest that disulfiram also directly reduces cocaine use. However,

In study 10 sanctions for using heroin, cocaine or alcohol probably helped disulfiram and placebo (the threat of disulfiram) have an impact as did in study  ${\color{red} \circ}$  the prospect of continued treatment, an incentive to 'behave'. Also, people who volunteer for such studies are presumably ready to tackle their cocaine and alcohol use. These features could explain the extra impact of disulfiram, but might

Practice implications Medical contraindications, potentially risky interactions with cocaine and alcohol, and side effects limit disulfiram's role to those in greatest need of reducing alcohol and cocaine use. Opioid maintenance provides opportunities to overcome typically poor long-term compliance by tying disulfiram to methadone or take-home doses. Methadone patients do not necessarily want to reduce alcohol and cocaine use, so there may be a role for a preparatory motivational intervention; if patients react to disulfiram by exiting

Nuggets **6.3 4.5 4.2** 

dissolved in methadone taken at the clinic, where they were also

breathalysed. Nearly 80% completed the study. Drinking was virtually

disulfiram which include vomiting, flushing and chest pains. Then for

6.5 Antabuse reduces cocaine and alcohol use

Study 1 tried disulfiram on 67 methadone patients persistently and

a crack/heroin habit, the risks run by users, the social damage entailed in a crack-focused lifestyle, and the prospect of an influx of such patients into treatment from criminal justice sources, place a priority on developing ways to deal with this client group. Featured studies • Petrakis I.L., et al. "Disulfiram treatment for cocaine dependence in methadone-maintained opioid addicts." Addiction: 2000, 95(2), p. 219–228 George T.P., et al. "Disulfiram versus placebo for cocaine dependence in buprenorphine-maintained subjects: a preliminary trial." *Biological Psychiatry*: 2000, 47, p. 1080–1086. Copies: apply DrugScope.

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