MAIN RESULTS
Prevalence of SUD: 37% had a lifetime SUD diagnosis, most commonly with cannabis (38%), then alcohol (21%), cocaine (6%), hallucinogens/PCP (5%), and opioids (1%). People with SUD were more likely to be male and have had longer periods of untreated psychosis than their non-SUD counterparts. Response to antipsychotics: people with alcohol use disorder (AUD) were significantly less likely to respond compared with people without AUD. Differences in response were not significant for people with or without SUD or cannabis use disorders (see http://www.ebmentalhealth.com/supplemental for table). People with AUD were less likely to respond to olanzapine compared with haloperidol (9% vs 27%, p<0.02).

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CONCLUSIONS
A history of substance use disorder is likely in people presenting with first episode psychosis. This may reduce their response to antipsychotic medication.

Commentary
Although this study did not test the efficacy of haloperidol and olanzapine when SUD were concurrently present in people with psychosis, it did confirm the often reported finding that a history of substance misuse is a significant predictor of poorer therapeutic response. Both typical and novel neuroleptics showed comparable efficacy in reducing psychotic symptom scores in patients without a history of SUD. Olanzapine appeared to be less effective than haloperidol in people with a history of SUD; particularly those with comorbid alcoholism. This is a puzzling finding. There is a growing consensus in the addiction psychiatry field that favours antipsychotics to treat such dual pathology. Olanzapine had been found effective in reducing both psychotic and addiction symptoms in previous open label and naturalistic follow up studies. Preference for antipsychotics is based on some plausible assumptions: (1) typical neuroleptics, with their prolonged blockage of D2 receptors, are more likely to induce hypersensitisation with a consequent increase in drug rewarding effects; (2) they cause parkinsonian depletions (anhedonia) and do not improve negative symptoms, two phenomena believed to foster drug use; and (3) the improvement in cognitive function atypical antipsychotics purportedly exert increases the benefits of addiction rehabilitation therapy.

This trial measured initial effectiveness in the early phase of psychotic illness as participants were in remission, the dual diagnosis cases it included are likely to have had less severe forms of addiction pathology. Perhaps the alleged advantages of novel antipsychotics become more evident in the chronic stages, when the cumulative effects of progressive deterioration and neuroleptic side effects are more of a factor. This short trial has nonetheless shown, once more, that atypical enhance treatment compliance. This is certainly an important consideration, for there is evidence that a more comprehensive therapeutic response in cases of dual pathology can only be expected in the longer term. On the other hand, information is still lacking on the specific metabolic effects (for example, blood lipids and glucose) that atypical neuroleptics could have in patients with liver dysfunction from alcohol damage or injection acquired viral infections.

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