

Table S2. MAIN FINDINGS OF RETRIEVED STUDIES IN CARIPRAZINE.

REFS	PSYCHIATRIC DIAGNOSIS	KEY CONCEPT	POPULATION	SUBSTANCE-RELATED DIAGNOSIS	SAMPLE	RESULTS
Roman et al., 2013	nd	Cariprazine, aripiprazole, and bifeprunox show potential in reducing cocaine reward and preventing relapse in cocaine addiction	nd	Psychostimulants	Animal	Cariprazine (0.03–1 mg/kg) demonstrates anti-abuse potential in rats
Jordan et al., 2020	nd	Positive role of cariprazine in cocaine reward in rodents	nd	Cocaine	Animal	Cariprazine (1-5mg·kg ⁻¹) attenuates cocaine reward and relapse in rodents.
Rodriguez Cruz et al., 2021	Schizophrenia in polysubstance abuser	Switching from Haloperidol to Cariprazine significantly improved symptoms and reduced substance abuse in a schizophrenia patient with a history of drug abuse.	1	Polysubstances	Human	Cariprazine (4.5 mg/die) ameliorates positive, negative, and cognitive symptoms in a schizophrenic patient with an extensive history of substance abuse
Ricci et al., 2022	Methamphetamine induced psychosis	Cariprazine effectively reduced psychotic and addictive symptoms in a methamphetamine-induced psychosis case, indicating its potential therapeutic value	1	Methamphetamine	Human	Potential effect of cariprazine (4.5 mg/die) on a drug naïve patient with persistent psychotic symptoms induced by methamphetamine for the first time.
Truong et al., 2022	Methamphetamine induced psychosis	Cariprazine effectively reduced cravings and use in methamphetamine use disorder, indicating its potential as a novel treatment.	2	Methamphetamine	Human	Cariprazine (1.5mg/die-3 mg /die) showed global functional improvement and reduction in methamphetamine cravings
Montes et al., 2021	Psychosis in methamphetamine, mephedrone and cocaine abuse	Cariprazine is efficacy in polysubstance-induced psychosis	1	Cocaine, Mephedrone, Methamphetamine	Human	Cariprazine (3 mg/die) effectively alleviated positive symptoms in a 31-year-old male who was HIV positive and had a history of abusing methamphetamine, mephedrone, cocaine, and alcohol
Gentile et al., 2022	Cannabis induced psychosis	Cariprazine shows positive effects in treating co-morbid psychosis and cannabis intake	1	Cannabis	Human	Administration of cariprazine (3 mg/die) led to an improvement in both negative and positive symptoms and resulted in a reduction in cannabinoid intake.

