**Supplementary material**

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| **Table S1.** Search algorithms for the databases. | |
| Data base | Algorithm |
| Web of Science | TOPIC: ("neurocognitive disorder") OR TOPIC: ("cognitive impairment") OR TOPIC: ("cognitive deficits") OR TOPIC: ("executive \*function") OR TOPIC: (memory) OR TOPIC: (\*attention) OR TOPIC: ("processing speed") AND TOPIC: ("substance \*use") OR TOPIC: (addicti\*) AND TOPIC: (alcohol) OR TOPIC: (marijuana) OR TOPIC: (cocaine) OR TOPIC: (crack) OR TOPIC: (inhalants) OR TOPIC: (solvents) Refined by: WEB OF SCIENCE CATEGORIES: ( SUBSTANCE ABUSE OR NEUROSCIENCES ) AND DOCUMENT TYPES: ( ARTICLE ) AND WEB OF SCIENCE CATEGORIES: ( SUBSTANCE ABUSE ) AND WEB OF SCIENCE CATEGORIES: ( PSYCHIATRY OR NEUROSCIENCES OR CLINICAL NEUROLOGY OR TOXICOLOGY ) Timespan: 2000-2016. Indexes: SCI-EXPANDED, SSCI. |
| Science Direct | docsubtype(FLA) and pub-date > 1999 and "neurocognitive disorder" OR "cognitive impairment" OR "cognitive deficit" OR neuropsycholog\* OR "executive \*function" OR memory OR "attention" OR "processing speed" AND "substance \*use" OR addicti\* AND alcohol OR marijuana OR cocaine OR crack OR inhalants OR solvents AND LIMIT-TO(cids, "271276,271863,271299,271134,271200,271251,271069,271071,271080,272452,271215","Drug and Alcohol Dependence,Addictive Behaviors,Journal of Substance Abuse Treatment,Psychiatry Research,Biological Psychiatry,Journal of Psychiatric Research,Neuropharmacology,Neuroscience,Brain Research,Comprehensive Psychiatry,Progress in Neuro-Psychopharmacology and Biolog...") AND LIMIT-TO(topics, "patient,alcohol,drug,cocaine,substance,mental health,adhd,substance abuse,unite state,nicotine,cannabis"). |