

Table S1: Assessment of methodological quality of randomized trials and biases

Studies	Random sequence generation*	Allocation concealment	Selective reporting	Blinding (participants and personnel)*	Blinding (outcome assessment)	Incomplete outcome data*	Other sources of bias	JADAD score
Davis et al (2021)	Described	Described	Unlikely		Blinded clinicians	Described	Waiting-list	4
Ross et al(2016)	Stated	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Griffiths et al (2016)	Stated	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Grob et al(2011)	Stated	Stated	Unlikely	Stated	Stated	Not stated	Pilot study(feasibility study)	3
Carhart-Harris et al(2021)	Described	Described	Unlikely	Described	Described	Described	Choice of scales	5
Wolfson et al(2020)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Mitchell et al(2021)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Safety data collected by site therapist	5
Ot'abora et al(2018)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Mithoefer et al(2018)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Gasser et al(2014)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Cross-over design	4
Palhano-Fontes et al(2019)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Additional measures to preserve blindness	5
Danforth (2018)	Described	Described	Unlikely	Described	Described	Described(flow diagram)	Pilot study(feasibility study)	5

* Corresponding questions related to methodological quality from JADAD scale.

Table S2. Adverse effects surveyed

Neurological	Cardiovascular	Gastro-intestinal	Neuro-psychiatric	Ophthalmology	Musculoskeletal	Other
Headache			Vivid dreams, Altered perception of body sensations	Peripheral visual fields movement, Tinnitus		
			Visual distortions			
Headache	Elevated BP	Nausea	Transient anxiety, paranoia			
		Vomiting				
	Elevated BP		Hallucinations, Depersonalization, Derealization, Fear of loss of thought control, Fear of loss of body control			
			Delusion, Altered perception of time			
Migraine			Mania			
Headache	Elevated BP	Nausea	Transient anxiety, paranoia, Thought disorder			
Headache, Feeling body shake	Elevated BP		Despair,			
Tremble			Sadness, Panic			
Headache, migraine		Vomiting				
Headache	Elevated BP	Nausea	Mania	Peripheral visual fields movement		
Migraine		Vomiting	Paranoia			
Tremble			Panic			
			Thinking disorder, Visual distortions			
Tinnitus			Derealization			
Feeling body shake			Depersonalization			
			Transient anxiety			
			Despair			
			Altered perception of time			
			Fear of loss of body			
			Fear of loss of control			
			Vivid dreams			
			Sadness			
					Gait disturbance	Feeling cold
	Elevated BP		Feeling abnormal, Transient anxiety			
				Mydriasis		
Headache			Fatigue, insomnia, Transient anxiety	Jaw clenching, tight jaw		Dry mouth, Perspiration, Thirst,

					Feeling cold
					Hyperhidrosis, Decreased Appetite, feeling cold
	Elevated BP	Vomiting, nausea	Fever	Mydriasis, Nystagmus	Muscle tightness,
Headache	Elevated BP		Fatigue, insomnia, Transient anxiety, irritability		Jaw clenching, tight jaw, muscle tightness
Headache		Nausea	Fatigue, dizziness, irritability		Jaw clenching, tight jaw
Fatigue			Anxiety, Transient anxiety		
Headache		Vomiting, nausea	Transient anxiety, restlessness		

Table S3. Adverse effects complaints (number of individuals, mean and standard error).

	N	Mean	SD	SE
Psilocybin	21	3.333	7.351	1.604
LSD	10	1.800	2.530	0.800
MDMA	18	3.222	6.477	1.527
Ayahuasca	5	1.600	1.342	0.600

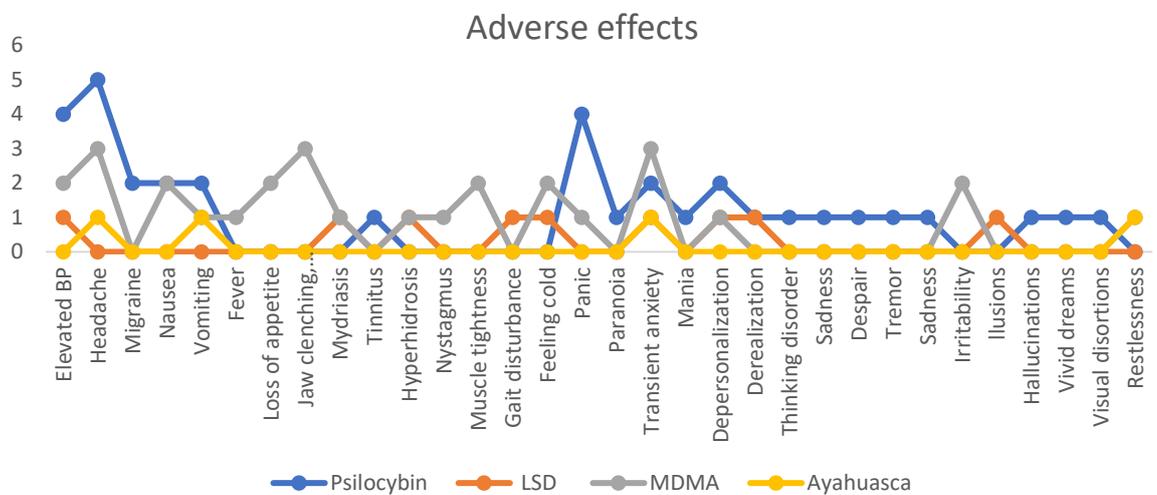


Figure S1. Adverse effects.