

Supplementary Table 2. Direction of effect of decriminalization or legal regulation, by outcome category

Outcomes	# of outcomes	# reporting beneficial effects	# reporting harmful effects	# reporting mixed effects	# reporting no effect	Article # (See Included Studies)	Average quality (of 18, excluding abstracts)
Accidents, motor vehicle	4	1	1	1	1	3, 8, 43, 91	14.3
Accidents, other	4	0	2	1	1	5, 11, 14, 97	12.7
Addiction treatment utilization	4	0	1	1	2	1, 25, 78, 83	14.5
Age of first use, decriminalized/regulated drug	3	0	0	1	2	23, 84, 114	12.7
Attitudes towards use, decriminalized/regulated drug	6	0	1	3	2	27, 71, 89, 92, 112	14.0
Availability of decriminalized/regulated drug	3	0	0	1	2	6, 31, 86	13.3
BMI	1	1	0	0	0	90	16.0
Costs, health care	3	2	1	0	0	15, 17, 33	15.7
Costs, other	3	3	0	0	0	33	13.0
Crime (non-drug)	9	5	0	0	4	7, 44, 74, 95	14.0
Criminal justice involvement	8	1	3	1	3	7, 25, 36, 101	13.8
Disclosure of use to healthcare provider	1	1	0	0	0	87	N/A
Educational outcomes	3	0	2	1	0	81	16.0
Frequency of use, decriminalized/regulated drug	16	1	3	4	8	6, 18, 30, 36, 46, 47, 59, 60, 64, 69, 72, 78, 81, 89, 111, 113	14.4
Health services utilization (excluding addictions treatment)	12	2	6	1	3	13, 19, 34, 54, 55, 73, 96, 107, 108	13.8
Driving under the influence or with detectable concentrations of the decriminalized/regulated drug	8	0	5	1	2	26, 42, 67, 82, 85, 98, 103	12.0

Outcomes	Number of outcomes	# reporting beneficial effects	# reporting harmful effects	# reporting mixed effects	# reporting no effect	Article # (See Included Studies)	Average quality score
Driving under the influence or with detectable concentrations, other drug/alcohol	3	0	0	1	2	42, 58, 98	14.5
Mental health conditions, suicide, or self-harm	4	0	1	2	1	4, 29, 30, 37	15.0
Mode of use, decriminalized/regulated drug	1	0	0	0	1	39	13.0
Opioid therapy compliance	1	0	0	0	1	63	N/A
Overdose or poisoning (incl. unintentional exposures) decriminalized/regulated drug	7	0	7	0	0	10, 12, 75, 76, 108, 109	13.3
Overdose or poisoning, other drugs	7	4	0	2	1	9, 10, 62, 80, 83, 88, 96	15.6
Perceived availability, decriminalized/regulated drug	9	0	2	2	5	27, 39, 53, 60, 65, 68, 71, 92, 112	14.1
Perceived harmfulness, decriminalized/regulated drug	12	1	2	6	3	18, 22, 30, 38, 39, 52, 59, 60, 71, 92, 106, 112	13.9
Physical health consequences of use, decriminalized/regulated drug	1	0	0	0	1	104	N/A
Potency, decriminalized/regulated drug	1	0	0	0	1	93	16.0
Prescription drug use (medical use)	9	6	0	1	2	15, 16, 17, 56, 61, 83, 94, 110	16.3
Prevalence of use, decriminalized/regulated drug	50	2	13	11	24	1, 2, 6, 18, 20, 21, 22, 24, 27, 28, 34, 35, 36, 38, 39, 40, 41, 46, 48, 49, 50, 51, 52, 53, 63, 64, 65, 66, 68, 69, 70, 71, 72, 78, 79, 81, 84, 87, 89, 99, 100, 105, 106, 111, 113	14.6

Outcomes	Number of outcomes	# reporting beneficial effects	# reporting harmful effects	# reporting mixed effects	# reporting no effect	Article # (See Included Studies)	Average quality score
Prevalence or frequency of use, other drugs/alcohol	21	2	2	6	11	18, 21, 35, 47, 49, 50, 53, 57, 60, 66, 72, 83, 99, 111	15.6
Price of drugs	5	0	1	1	3	3, 31, 32, 45, 77	14.0
Substance use disorder or diagnosed dependence	5	0	1	2	2	40, 59, 69, 111, 113	14.6
Workplace absence	1	1	0	0	0	102	16.0