

Supplementary Table 1: Search strategy MEDLINE All (Ovid); Embase (Elsevier Embase.com); CINAHL with Full Text (EBSCOhost); PsycINFO (EBSCOhost); Scopus (Elsevier Scopus.com)

	MEDLINE All (Ovid)	Embase (Elsevier Embase.com)	CINAHL with Full Text (EBSCOhost) - search mode: Boolean/Phrase	PsycINFO (EBSCOhost)	Scopus (Elsevier Scopus.com)
1	Harm Reduction/ (harm* adj2	1 'harm reduction'/exp (harm* NEAR/2	1 (MH "Harm Reduction")	1 DE "Harm Reduction"	1 TITLE-ABS-KEY((harm* W/2 (reduc* OR minimiz* OR minimis*)) OR stigma* OR destigma* OR "de-stigma" OR (addiction* W/2 (consultation* OR counsel* OR therap* OR treatment* OR service*)) OR "medication assisted therap*" OR "medication assisted treatment*" OR "opiate substitution*" OR "opiate replacement*" OR "opioid* substitution*" OR "opioid* replacement*" OR "opioid agonist*" OR "substitution therap*" OR methadone OR buprenorphine OR naloxone OR "non-abstinence" OR ((needle* OR syringe*) W/2 (exchange* OR clean* OR steril*)) OR ((supervised OR supervized) W/2 (inject* OR consum*)) OR (consumption W/3 site) OR "overdose prevention site*" OR "safe supply" OR ((care OR healthcare) W/2 (retention OR retain* OR continuity OR continuum)) OR aftercare OR handoff OR "hand-off" OR "patient transition*" OR "patient transfer*" OR "leav* against medical advice" OR "left against medical advice" OR (leav* W/2 early) OR (left W/2 early) OR abscond* OR (early W/1 discharge*) OR ((staff OR worker* OR employee* OR system) W/3 (cultur* OR attitude* OR belief* OR misconception* OR perception* OR perceiv* OR resist* OR educat* OR train* OR language)))
2	reduc*).ti,ab,kw,kf.	2 reduc*):ti,ab,kw	2 (harm* N2 reduc*)	2 (harm* N2 reduc*)	
3	(harm* adj2 (minimiz* or minimis*)):ti,ab,kw, kf.	3 (harm* NEAR/2 (minimiz* OR minimis*)):ti,ab,kw	3 (harm* N2 (minimiz* OR minimis*))	3 (harm* N2 (minimiz* OR minimis*))	
4	or/1-3 (stigma* or destigma* or de-stigma*).ti,ab,kw,kf	4 #1 OR #2 OR #3	4 S1 OR S2 OR S3	4 S1 OR S2 OR S3	
5	. (addiction* adj2 (consultation* or counsel* or therap* or treatment* or service*)):ti,ab,kw, kf.	5 (stigma* OR destigma* OR 'de-stigma*'):ti,ab,kw  (addiction* NEAR/2 (consultation* OR counsel* OR therap* OR treatment* OR service*)):ti,ab,kw	5 (stigma* OR destigma* OR "de-stigma*")  (addiction* N2 (consultation* OR counsel* OR therap* OR treatment* OR service*))	5 (stigma* OR destigma* OR "de-stigma*")  (addiction* N2 (consultation* OR counsel* OR therap* OR treatment* OR service*))	
6	Opiate Substitution Treatment/	6 'opiate substitution treatment'/exp	6 (MH "Addictions Nursing")	6 DE "Medication-Assisted Treatment"	
7	(medication assisted therap* or medication assisted treatment*).ti,ab,kw, kf.	7 'methadone treatment'/exp	7 (MH "Addictions Nursing")	7 DE "Methadone Maintenance"	
8	(opiate substitution* or opiate replacement* or opioid* substitution* or opioid* replacement* or opioid agonist?).ti,ab,kw, kf.	8 ('medication assisted therap*' OR 'medication assisted treatment*'):ti,ab,kw	8 ("medication assisted therap*" OR "medication assisted treatment*")	8 ("medication assisted therap*" OR "medication assisted treatment*")	
9	substitution therap*.ti,ab,kw,kf.	9 ('opiate substitution*' OR 'opiate replacement*' OR 'opioid* substitution*' OR 'opioid* replacement*' OR 'opioid agonist\$'):ti,ab,kw	9 ("opiate substitution*" OR "opiate replacement*" OR "opioid* substitution*" OR "opioid* replacement*" OR "opioid agonist#")	9 ("opiate substitution*" OR "opiate replacement*" OR "opioid* substitution*" OR "opioid* replacement*" OR "opioid agonist#")	
10		10 'substitution therap*':ti,ab,kw	10 "substitution therap*"	10 "substitution therap*"	

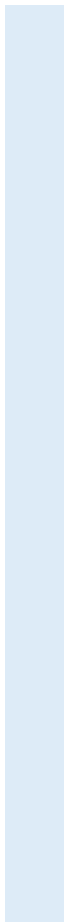
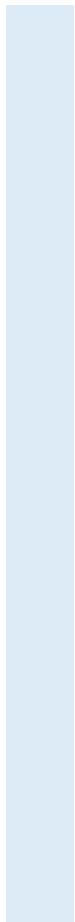
11	(methadone or buprenorphine or naloxone).ti,ab,kw, kf.	12	(methadone OR buprenorphine OR naloxone):ti,ab,kw	11	(methadone OR buprenorphine OR naloxone)	12	(methadone OR buprenorphine OR naloxone)
12	non-abstinence.ti,ab,kw, kf.	13	('non-abstinence'):ti,ab,kw	12	("non-abstinence")	13	("non-abstinence")
13	or/7-12	14	#7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13	13	S7 OR S8 OR S9 OR S10 OR S11 OR S12	14	S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13
14	Needle-Exchange Programs/ ((needle* or syringe*) adj2 (exchange* or clean* or steril*)):ti,ab,kw, kf.	15	((needle* OR syringe*) NEAR/2 (exchange* OR clean* OR steril*)):ti,ab,kw	14	(MH "Needle Exchange Programs")	15	DE "Needle Exchange Programs"
15	(supervi?ed adj2 (inject* or consum*)):ti,ab,kw, kf.	16	((needle* OR syringe*) NEAR/2 (exchange* OR clean* OR steril*)):ti,ab,kw	15	((needle* OR syringe*) N2 (exchange* OR clean* OR steril*))	16	((needle* OR syringe*) N2 (exchange* OR clean* OR steril*))
16	(consumption adj3 site?):ti,ab,kw, kf.	17	(supervi?ed NEAR/2 (inject* OR consum*)):ti,ab,kw	16	(supervi?ed N2 (inject* OR consum*))	17	(supervi?ed N2 (inject* OR consum*))
17	overdose prevention site?.ti,ab,kw, kf.	18	(consumption NEAR/3 site\$):ti,ab,kw	17	(consumption N3 site#)	18	(consumption N3 site#)
18	safe supply.ti,ab,kw, kf.	19	'overdose prevention site\$':ti,ab,kw	18	("overdose prevention site#")	19	("overdose prevention site#")
19	or/14-19	20	'safe supply':ti,ab,kw	19	("safe supply")	20	("safe supply")
20	exp Continuity of Patient Care/	21	#15 OR #16 OR #17 OR #18 OR #19	20	S14 OR S15 OR S16 OR S17 OR S18 OR S19	21	S15 OR S16 OR S17 OR S18 OR S19 OR S20
21	((care or healthcare) adj2 (retention or retain* or continuity or continuum)):ti,ab,kw, kf.	22	'retention in care'/exp	21	(MH "Continuity of Patient Care+")	22	DE "Continuum of Care"
22	(aftercare or handoff or hand-off or patient transition* or patient	23	((care OR healthcare) NEAR/2 (retention OR retain* OR continuity OR continuum)):ti,ab,kw	22	((care OR healthcare) N2 (retention OR retain* OR continuity OR continuum))	23	DE "Discharge Planning"
23	transition* or patient	24	(aftercare OR handoff OR 'hand-off' OR 'patient transition*' OR 'patient transfer*'):ti,ab,kw	23	(aftercare OR handoff OR "hand-off" OR "patient transition*" OR "patient transfer*")	24	DE "Aftercare"
		25		24		25	((care OR healthcare) N2 (retention OR retain* OR continuity OR continuum))
		26		25		26	(aftercare OR handoff OR "hand-off" OR "patient transition*" OR "patient transfer*")

	transfer*).ti,ab,kw, kf.							
24	(leav* against medical advice or left against medical advice or (leav* adj2 early) or (left adj2 early) or abscond* or (early adj discharge*)):ti,ab,kw, kf.	24	('leav* against medical advice' OR 'left against medical advice' OR (leav* NEAR/2 early) OR (left NEAR/2 early) OR abscond* OR (early NEAR/1 discharge*)):ti,ab,kw	24	("leav* against medical advice" OR "left against medical advice" OR (leav* N2 early) OR (left N2 early) OR abscond* OR (early N1 discharge*))	27	("leav* against medical advice" OR "left against medical advice" OR (leav* N2 early) OR (left N2 early) OR abscond* OR (early N1 discharge*)) S22 OR S23 OR S24 OR S25 OR S26	
25	or/21-24 ((staff or worker* or employee* or system) adj3 (cultur* or attitude* or belief* or misconception* or perception* or perceiv* or resist* or educat* or train* or language)):ti,ab,kw, kf.	25	#21 OR #22 OR #23 OR #24	25	S21 OR S22 OR S23 OR S24	28	OR S27	
26		26	((staff OR worker* OR employee* OR system) NEAR/3 (cultur* OR attitude* OR belief* OR misconception* OR perception* OR perceiv* OR resist* OR educat* OR train* OR language)):ti,ab,kw	26	((staff OR worker* OR employee* OR system) N3 (cultur* OR attitude* OR belief* OR misconception* OR perception* OR perceiv* OR resist* OR educat* OR train* OR language))	29	((staff OR worker* OR employee* OR system) N3 (cultur* OR attitude* OR belief* OR misconception* OR perception* OR perceiv* OR resist* OR educat* OR train* OR language))	
27	or/4-6,13,20,25-26 exp	27	#4 OR #5 OR #6 OR #14 OR #20 OR #25 OR #26	27	S4 OR S5 OR S6 OR S13 OR S20 OR S25 OR S26	30	S4 OR S5 OR S6 OR S14 OR S21 OR S28 OR S29	
28	Hospitalization/	28	'hospitalization'/exp	28	(MH "Hospitalization")	31	DE "Hospitalization"	
29	Inpatients/	29	'hospital patient'/de	29	(MH "Inpatients")	32	DE "Hospital Admission"	
	(admitted or admission* or hospitalis* or hospitaliz* or inpatient* or inpatient* or overnight*):ti,ab,kw, kf.	30	(admitted OR admission* OR hospitalis* OR hospitaliz* OR inpatient* OR 'in-patient*' OR overnight*):ti,ab,kw	30	(admitted OR admission* OR hospitalis* OR hospitaliz* OR inpatient* OR overnight*)	33	DE "Psychiatric Hospitalization"	
30						34	DE "Hospitalized Patients"	
							2	TITLE-ABS-KEY(admitted OR admission* OR hospitalis* OR hospitaliz* OR inpatient* OR overnight* OR "emergency department*" OR "emergency room*" OR "emergency unit*" OR "emergency ward*" OR "accident and emergency")

31	(emergency department* or emergency room* or emergency unit? or emergency ward* or "accident and emergency").ti,ab,kw,kf.	31	('emergency department*' OR 'emergency room*' OR 'emergency unit\$' OR 'emergency ward*' OR 'accident and emergency'):ti,ab,kw	31	("emergency department*" OR "emergency room*" OR "emergency unit#" OR "emergency ward*" OR "accident and emergency")	36	("emergency department*" OR "emergency room*" OR "emergency unit#" OR "emergency ward*" OR "accident and emergency") S31 OR S32 OR S33 OR S34 OR S35 OR S36	
32	or/28-31	32	#28 OR #29 OR #30 OR #31	32	S28 OR S29 OR S30 OR S31	37	OR S36	
33	Alcoholics/	33	'drug dependence'/exp	33	(MH "Substance Abusers+") (MH "Substance	38	DE "Drug Abuse"	
34	Drug Users/	34	'injection drug user'/exp	34	Dependence")	39	DE "Drug Dependency"	
		35	'recreational drug use'/exp			40	DE "Opioid Use Disorder"	
						41	DE "Alcohol Use Disorder"	
						42	DE "Substance Use Disorder"	
35	("people who use drugs" or "persons who use drugs" or pwud).ti,ab,kw,kf.	36	('people who use drugs' OR 'persons who use drugs' OR pwud):ti,ab,kw	35	("people who use drugs" OR "persons who use drugs" OR pwud)	43	("people who use drugs" OR "persons who use drugs" OR pwud)	3
36	("people who inject drugs" or "persons who inject drugs").ti,ab,kw,kf.	37	('people who inject drugs' OR 'persons who inject drugs'):ti,ab,kw	36	("people who inject drugs" OR "persons who inject drugs")	44	("people who inject drugs" OR "persons who inject drugs")	TITLE-ABS-KEY("people who use drugs" OR "persons who use drugs" OR pwud OR "people who inject drugs" OR "persons who inject drugs" OR "people who use alcohol" OR "persons who use alcohol" OR pwua OR ((drug OR drugs OR substance* OR opioid* OR opiate* OR alcohol) W/2 (abuse* OR "use" OR user OR users* OR addict* OR involve* OR depend* OR habit*)) OR alcoholic* OR alcoholism OR addict OR addicts OR addiction* OR overdose*)
37	("people who use alcohol" or "persons who use alcohol" or pwua).ti,ab,kw,kf.	38	('people who use alcohol' OR 'persons who use alcohol' OR pwua):ti,ab,kw	37	("people who use alcohol" OR "persons who use alcohol" OR pwua)	45	("people who use alcohol" OR "persons who use alcohol" OR pwua)	
38	((drug or drugs or substance* or opioid* or opiate* or alcohol) adj2 (abuse* or "use" or user or users* or addict* or involve* or depend* or habit*)).ti,ab,kw,kf.	39	((drug OR drugs OR substance* OR opioid* OR opiate* OR alcohol) NEAR/2 (abuse* OR 'use' OR user OR users* OR addict* OR involve* OR depend* OR habit*)):ti,ab,kw	38	((drug OR drugs OR substance* OR opioid* OR opiate* OR alcohol) N2 (abuse* OR "use" OR user OR users* OR addict* OR involve* OR depend* OR habit*))	46	((drug OR drugs OR substance* OR opioid* OR opiate* OR alcohol) N2 (abuse* OR "use" OR user OR users* OR addict* OR involve* OR depend* OR habit*))	
39	(alcoholic* or alcoholism).ti,ab,kw,kf.	40	(alcoholic* OR alcoholism):ti,ab,kw	39	(alcoholic* OR alcoholism)	47	(alcoholic* OR alcoholism)	
40	(addict or addicts or addiction*).ti,ab,kw,kf.	41	(addict OR addicts OR addiction*):ti,ab,kw	40	(addict OR addicts OR addiction*)	48	(addict OR addicts OR addiction*)	4
								#1 AND #2 AND #3

41	overdose*.ti,ab,kw, kf.	42	overdose*.ti,ab,kw #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42	41	overdose* S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41	49	overdose* S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49	5	#4 AND NOT (INDEX(medline) OR INDEX(embase))
42	or/33-41	43	#27 AND #32 AND #43	42	S27 OR S32 OR S42	50	S30 OR S37 OR S50		
43	27 and 32 and 42	44		43		51			
	<b>6519 results 2021-07-07</b> <i>Amended search</i> 2021-09-15 <b>6698 results 2021-09-15</b>		<b>8795 results 2021-07-07</b> <i>Amended search 2021-09-15</i> <b>9379 results 2021-09-15</b>		<b>2358 results 2021-07-07</b> <i>Amended search 2021-09-15</i> <b>2581 results 2021-09-15</b>		<b>3568 results 2021-07-07</b> <i>Amended search 2021-09-15</i> <b>3801 results 2021-09-15</b>		<b>479 results 2021-07-07</b> <i>Amended search 2021-09-15</i> <b>506 results 2021-09-15</b>  <i>Full string:</i>

((TITLE-ABS-KEY((harm\* W/2 (reduc\* OR minimiz\* OR minimis\*)) OR stigma\* OR destigma\* OR "de-stigma" OR (addiction\* W/2 (consultation\* OR counsel\* OR therap\* OR treatment\* OR service\*)) OR "medication assisted therap\*" OR "medication assisted treatment\*" OR "opiate substitution\*" OR "opiate replacement\*" OR "opioid\* substitution\*" OR "opioid\* replacement\*" OR "opioid agonist\*" OR "substitution therap\*" OR methadone OR buprenorphine OR naloxone OR "non-abstinence" OR ((needle\* OR syringe\*) W/2 (exchange\* OR clean\* OR steril\*)) OR ((supervized OR supervised) W/2 (inject\* OR consum\*)) OR (consumption W/3 site) OR "overdose prevention site\*" OR "safe supply" OR ((care OR healthcare) W/2 (retention OR retain\* OR continuity OR continuum)) OR aftercare OR handoff OR "hand-off" OR "patient transition\*" OR "patient transfer\*" OR "leav\* against medical advice" OR "left against medical advice" OR (leav\* W/2 early) OR (left W/2 early) OR abscond\* OR (early W/1 discharge\*) OR ((staff OR worker\* OR employee\* OR system) W/3 (cultur\* OR attitude\* OR belief\* OR misconception\* OR perception\* OR perceiv\* OR resist\* OR educat\* OR train\* OR language)))) AND (TITLE-ABS-KEY(admitted OR admission\* OR hospitalis\* OR hospitaliz\* OR inpatient\* OR overnight\* OR "emergency department\*" OR "emergency room\*" OR "emergency unit\*" OR "emergency ward\*" OR "accident and emergency")) AND (TITLE-ABS-KEY("people who use drugs" OR "persons who use drugs" OR pwud OR "people who inject drugs" OR "persons who inject drugs" OR "people who use alcohol" OR "persons who use alcohol" OR pwua OR ((drug OR drugs OR substance\* OR opioid\* OR opiate\* OR alcohol) W/2 (abuse\* OR "use" OR user OR users\* OR addict\* OR involve\* OR depend\* OR habit\*)) OR alcoholic\* OR alcoholism OR addict OR addicts OR



addiction\* OR overdose\*)) AND NOT  
(INDEX(medline) OR INDEX(embase))

Supplementary Table 2: Harm Reduction Scoping Review Extraction Form (Draft)

Author, Year	Country	Study Design	Objective	Setting	Participant Characteristics (sample size, age, gender)	Description of Harm Reduction Strategy	Barriers or Enablers to Implementation		Patient-related Outcomes Measured		Health-related outcomes measured			Description of Main Results
							Reported Barriers	Reported Enablers	Satisfaction level	Experience of care	LOS	Mortality Rate	Re-admission rate	

LOS: length of stay



