

Appendix 1

Supplemental Table 1, Full Search Strategy for Ovid Medline Searched on 5/17/23

#1	Substance-Related Disorders/ OR Alcohol-Related Disorders/ OR exp Alcoholism/ OR exp Amphetamine-Related Disorders/ OR exp Cocaine-Related Disorders/ OR exp Cocaine Smoking/OR exp Inhalant Abuse/ OR exp Marijuana Abuse/ OR exp Phencyclidine Abuse/ OR exp Substance Abuse, Intravenous/ OR exp Substance Abuse, Oral/ OR exp Opioid-Related Disorders/ OR Behavior, Addictive/OR (AUD OR SUD OR OUD OR addict* OR alcoholic* OR alcoholism).ti,ab,kf. OR ((drug OR alcohol OR substance OR pill? OR opioid* OR opiate* OR amphetamine* OR inhalant* OR marijuana OR phencyclidine OR cocaine OR narcotic* OR barbiturate* OR cannabis OR PCP OR meth OR methamphetamine* OR ecstasy OR mdma) adj2 (abuse* OR disorder? OR misuse* OR dependen* OR habit* OR problem? OR relaps*)).ti,ab,kf.
#2	(child OR children* OR kid OR kids OR girl? OR boy? OR minor? OR youth* OR youngster* OR juvenile* OR preteen* OR tween* OR pre teen* OR teen* OR adolescen* OR pediatric* OR paediatric* OR first-grad* OR second-grad* OR third-grad* OR fourth-grad* OR fifth-grad* OR sixth-grad* OR seventh-grad* OR eighth-grad* OR ninth-grad* OR tenth-grad* OR eleventh-grad* OR twelfth-grad* OR grade "7" OR grade "8" OR grade "9" OR grade "10" OR grade "11" OR grade "12" OR "7th" grad* OR "8th" grad* OR "9th" grad* OR "10th" grad* OR "11th" grad* OR "12th" grad* OR elementary school* OR highschool* OR high school* OR middle school* OR junior high* OR undergrad* OR under grad* OR university OR freshm#n* OR sophomore* OR junior* OR collegiate OR college* OR emerging adult* OR freshm#n OR sophomore?).ti,ab,kf. OR exp Adolescent/ OR Child/ OR Pediatrics/ OR exp Pediatric Emergency Medicine/ OR exp Child, Hospitalized/ OR exp "Child, Institutionalized"/ OR exp Minors/ OR exp Young Adult/ OR exp Adolescent Psychiatry/ OR exp "Psychology, Adolescent"/ OR exp Child Psychiatry/
#3	young*.ti,ab,kf. adj2 (adult* OR person* OR individual* OR people* OR population* OR man OR men OR wom#n).ti,ab,kf.
#4	2 or 3
#5	(adult* OR middle age* OR mid life OR midlife OR elder* OR oldest old OR centenarian? OR nonagenarian? OR octogenarian?).ti,ab,kf. OR Adult/ OR exp Aged/ OR exp Middle Aged/
#6	((old* OR aged) adj2 (person* OR individual* OR people* OR population* OR man OR men OR wom#n)).ti,ab,kf.
#7	5 or 6
#8	(detox* OR treat* OR therap* OR partial hospitaliz*).ti,ab,kf. OR th.fs OR exp Substance Abuse Treatment Centers/ OR exp Residential Treatment/ OR exp Addiction Medicine/ OR Psychotherapy/ OR (psychotherap*).ti,ab,kf. OR exp Psychosocial Intervention/ OR Psychotherapy, Group/ OR (group counsel*).ti,ab,kf. OR (intervention* or program*).ti,ab,kf. OR (medication assist*

	OR MOUD OR methadone OR buprenorphine).ti,ab,kf. OR exp Opiate Substitution Treatment/ OR exp Methadone/ OR exp Buprenorphine/ OR (replac* or substitut* or maintain*).ti,ab,kf.
#9	Rehabilitation/ OR rh.fs OR (recover* OR REC CAP OR sober* OR rehab* OR "12" step? OR twelve step? OR alcoholic* anonymous OR alanon OR alateen OR narcotics anonymous OR self help group? OR support group? OR therapeutic social club? OR halfway hous* OR half way hous* OR halfway home* OR half way home* OR transitional hous* OR oxford house? OR group home? OR group hous* OR alternative peer group? OR clubhouse? OR club house?).ti,ab,kf. OR exp Group Homes/ OR exp "Self-Help Groups"/ OR (SMART adj2 group?).ti,ab,kf. OR (action stage? OR action phase? OR maintenance stage? OR maintenance phase? OR self change).ti,ab,kf. OR exp Social Capital/ OR (social capital OR social infrastructure?).ti,ab,kf. OR exp "Internet-Based Intervention"/ OR ((online OR internet OR social OR web) adj2 (intervention* or therap* or program*).ti,ab,kf. OR exp Social Support/ OR (social support? OR social care OR family support? OR family encouragement? OR family assistance? OR psychosocial support? OR support system? OR community support? OR emotional support?).ti,ab,kf.
#10	8 or 9
#11	1 and 4 and 10
#12	1 and 7 and 9
#13 Youth	limit 11 to dt="20221231-20230531"
#14 Adults	limit 12 to dt="20221231-20230531"
#15	13 or 14

Supplemental Table 2, Full Search Strategy for CENTRAL Searched on 5/17/23

#1	Substance-Related Disorders/ OR Alcohol-Related Disorders/ OR exp Alcoholism/ OR exp Amphetamine-Related Disorders/ OR exp Cocaine-Related Disorders/ OR exp Cocaine Smoking/OR exp Inhalant Abuse/ OR exp Marijuana Abuse/ OR exp Phencyclidine Abuse/ OR exp Substance Abuse, Intravenous/ OR exp Substance Abuse, Oral/ OR exp Opioid-Related Disorders/ OR Behavior, Addictive/OR (AUD OR SUD OR OUD OR addict* OR alcoholic* OR alcoholism).ti,ab,kf. OR ((drug OR alcohol OR substance OR pill? OR opioid* OR opiate* OR amphetamine* OR inhalant* OR marijuana OR phencyclidine OR cocaine OR narcotic* OR barbiturate* OR cannabis OR PCP OR meth OR methamphetamine* OR ecstasy OR mdma) adj2 (abuse* OR disorder? OR misuse* OR dependen* OR habit* OR problem? OR relaps*).ti,ab,kf.
#2	(child OR children* OR kid OR kids OR girl? OR boy? OR minor? OR youth* OR youngster* OR juvenile* OR preteen* OR tween* OR pre teen* OR teen* OR adolescen* OR pediatric* OR paediatric* OR first-grad* OR second-grad* OR third-grad* OR fourth-grad* OR fifth-grad* OR sixth-grad* OR seventh-grad* OR eighth-grad* OR ninth-grad* OR tenth-grad* OR eleventh-grad* OR twelfth-grad*

	OR grade "7" OR grade "8" OR grade "9" OR grade "10" OR grade "11" OR grade "12" OR "7th" grad* OR "8th" grad* OR "9th" grad* OR "10th" grad* OR "11th" grad* OR "12th" grad* OR elementary school* OR highschool* OR high school* OR middle school* OR junior high* OR undergrad* OR under grad* OR university OR freshm#n* OR sophomore* OR junior* OR collegiate OR college* OR emerging adult* OR freshm#n OR sophomore?).ti,ab,kf. OR exp Adolescent/ OR Child/ OR Pediatrics/ OR exp Pediatric Emergency Medicine/ OR exp Child, Hospitalized/ OR exp "Child, Institutionalized"/ OR exp Minors/ OR exp Young Adult/ OR exp Adolescent Psychiatry/ OR exp "Psychology, Adolescent"/ OR exp Child Psychiatry/
#3	young*.ti,ab,kf. adj2 (adult* OR person* OR individual* OR people* OR population* OR man OR men OR wom#n).ti,ab,kf.
#4	2 or 3
#5	(adult* OR middle age* OR mid life OR midlife OR elder* OR oldest old OR centenarian? OR nonagenarian? OR octogenarian?).ti,ab,kf. OR Adult/ OR exp Aged/ OR exp Middle Aged/
#6	((old* OR aged) adj2 (person* OR individual* OR people* OR population* OR man OR men OR wom#n)).ti,ab,kf.
#7	5 or 6
#8	(detox* OR treat* OR therap* OR partial hospitaliz*).ti,ab,kf. OR th.fs OR exp Substance Abuse Treatment Centers/ OR exp Residential Treatment/ OR exp Addiction Medicine/ OR Psychotherapy/ OR (psychotherap*).ti,ab,kf. OR exp Psychosocial Intervention/ OR Psychotherapy, Group/ OR (group counsel*).ti,ab,kf. OR (intervention* or program*).ti,ab,kf. OR (medication assist* OR MOUD OR methadone OR buprenorphine).ti,ab,kf. OR exp Opiate Substitution Treatment/ OR exp Methadone/ OR exp Buprenorphine/ OR (replac* or substitut* or maintain*).ti,ab,kf.
#9	Rehabilitation/ OR rh.fs OR (recover* OR REC CAP OR sober* OR rehab* OR "12" step? OR twelve step? OR alcoholic* anonymous OR alanon OR alateen OR narcotics anonymous OR self help group? OR support group? OR therapeutic social club? OR halfway hous* OR half way hous* OR halfway home* OR half way home* OR transitional hous* OR oxford house? OR group home? OR group hous* OR alternative peer group? OR clubhouse? OR club house?).ti,ab,kf. OR exp Group Homes/ OR exp "Self-Help Groups"/ OR (SMART adj2 group?).ti,ab,kf. OR (action stage? OR action phase? OR maintenance stage? OR maintenance phase? OR self change).ti,ab,kf. OR exp Social Capital/ OR (social capital OR social infrastructure?).ti,ab,kf. OR exp "Internet-Based Intervention"/ OR ((online OR internet OR social OR web) adj2 (intervention* or therap* or program*).ti,ab,kf. OR exp Social Support/ OR (social support? OR social care OR family support? OR family encouragement? OR family assistance? OR psychosocial support? OR support system? OR community support? OR emotional support?).ti,ab,kf.
#10	8 or 9
#11	1 and 4 and 10

#12	1 and 7 and 9
#13 Youth	limit 11 to yr="2022-2023"
#14 Adults	limit 12 to yr="2022-2023"
#15	13 or 14

Supplemental Table 3, Full Search Strategy for PsycInfo Searched on 5/17/23

#1	"Substance Use Disorder"/ OR "Alcohol Use Disorder"/ OR Alcohol Abuse/ OR exp Alcoholism/ OR Addiction/ OR Drug Addiction/ OR exp "Cannabis Use Disorder"/ OR exp Drug Abuse/ OR exp Drug Dependency/ OR exp Inhalant Abuse/ OR exp "Opioid Use Disorder"/ OR exp Prescription Drug Misuse/ OR (AUD OR SUD OR OUD OR addict* OR alcoholic* OR alcoholism).ti,ab. OR ((drug OR alcohol OR substance OR pill? OR opioid* OR opiate* OR amphetamine* OR inhalant* OR marijuana OR phencyclidine OR cocaine OR narcotic* OR barbiturate* OR cannabis OR PCP OR meth OR methamphetamine* OR ecstasy OR mdma) adj2 (abuse* OR disorder? OR misuse* OR dependen* OR habit* OR problem? OR relaps*).ti,ab
#2	(child OR children* OR kid OR kids OR girl? OR boy? OR minor? OR youth* OR youngster* OR juvenile* OR preteen* OR pre teen* OR tween* OR teen* OR adolescen* OR pediatric* OR paediatric* OR grade "7" OR grade "8" OR grade "9" OR grade "10" OR grade "11" OR grade "12" OR "7th" grad* OR "8th" grad* OR "9th" grad* OR "10th" grad* OR "11th" grad* OR "12th" grad* OR elementary school* OR highschool* OR high school* OR middle school* OR junior high* OR undergrad* OR under grad* OR university OR freshm#n* OR sophomore* OR junior* OR collegiate OR first-grad* OR second-grad* OR third-grad* OR fourth-grad* OR fifth-grad* OR sixth-grad* OR seventh-grad* OR eighth-grad* OR ninth-grad* OR tenth-grad* OR eleventh-grad* OR twelfth-grad* OR highschooler? OR college* OR emerging adult* OR freshm#n OR sophomore? OR high schooler? OR elementary schooler? OR middle schooler?).ti,ab. OR exp Emerging Adulthood/ OR Pediatrics/ OR exp Adolescent Psychiatry/ OR exp Adolescent Psychology/ OR exp Adolescent Psychopathology/ OR Child Psychiatry/ OR exp Child Psychology/ OR exp Child Psychopathology/ OR exp Child Psychotherapy/ OR exp Adolescent Psychotherapy/
#3	young*.ti,ab. adj2 (adult* OR person* OR individual* OR people* OR population* OR man OR men OR wom#n).ti,ab.
#4	2 or 3
#5	(adult* OR middle age* OR mid life OR midlife OR elder* OR oldest old OR centenarian? OR nonagenarian? OR octogenarian?).ti,ab.
#6	((old* OR aged) adj2 (person* OR individual* OR people* OR population* OR man OR men OR wom#n)).ti,ab.
#7	5 or 6

#8	(detox* OR treat* OR therap* OR partial hospitaliz*).ti,ab. OR Treatment/ OR Treatment Facilities/ OR exp Addiction Medicine/ OR Addiction Treatment/ OR exp "Substance Use Treatment"/ OR Residential Care Institutions/ OR Detoxification/ OR Psychotherapy/ OR (psychotherap*).ti,ab OR Group Psychotherapy/ OR (group counsel*).ti,ab OR exp Partial Hospitalization/ OR Intervention/ OR (intervention* or program*).ti,ab OR (medication assist* OR MOUD OR methadone OR buprenorphine).ti,ab OR exp Opiate Substitution Treatment/ OR exp Methadone/ OR exp Buprenorphine/ OR (replac* or substitut* or maintain*).ti,ab OR Group Intervention/
#9	Rehabilitation/ OR Treatment/ OR (recover* OR REC CAP OR sober* OR rehab* OR "12" step? OR twelve step? OR alcoholic* anonymous OR alanon OR alateen OR narcotics anonymous OR self help group? OR support group? OR therapeutic social club? OR halfway hous* OR half way hous* OR halfway home* OR half way home* OR transitional hous* OR oxford house? OR group home? OR group hous* OR alternative peer group? OR clubhouse? OR club house?).ti,ab OR exp Halfway Houses/ OR exp Group Homes/ OR (SMART adj2 group?).ti,ab OR (action stage? OR action phase? OR maintenance stage? OR maintenance phase? OR self change).ti,ab OR exp Maintenance Therapy/ OR exp Medication-Assisted Treatment/ OR exp Social Capital/ OR (social capital OR social infrastructure?).ti,ab OR exp Digital Interventions/ OR ((online OR internet OR social OR web) adj2 (intervention* or therap* or program*)).ti,ab OR exp Social Support/ OR exp Support Groups/ OR (social support? OR social care OR family support? OR family encouragement? OR family assistance? OR psychosocial support? OR support system? OR community support? OR emotional support?).ti,ab OR exp Client Treatment Matching/ OR exp Therapeutic Social Clubs/
#10	8 or 9
#11	1 and 4 and 10
#12	1 and 7 and 9
#13 Youth	limit 11 to yr="2022-2023"
#14 Adults	limit 12 to yr="2022-2023"
#15	13 or 14

Supplemental Table 4, Full Search Strategy for Embase.com Searched on 5/17/23

#1	'drug abuse'/exp or 'substance abuse'/exp or 'drug dependence'/exp OR (AUD OR SUD OR OUD OR addict* OR alcoholic* OR alcoholism):ab,ti,kw OR ((drug OR alcohol OR substance OR pill? OR opioid* OR opiate* OR amphetamine* OR inhalant* OR marijuana OR phencyclidine OR cocaine OR narcotic* OR barbiturate* OR cannabis OR PCP OR meth OR methamphetamine* OR ecstasy OR mdma) NEAR/2 (abuse* OR disorder? OR misuse* OR dependen* OR habit* OR problem? OR relaps*)):ab,ti,kw
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#2	(child OR children* OR kid OR kids OR girl? OR boy? OR minor? OR youth* OR youngster* OR juvenile* OR preteen* OR 'pre teen*' OR tween* OR teen* OR adolescen* OR pediatric* OR paediatric* OR 'grade 7' OR 'grade 8' OR 'grade 9' OR 'grade 10' OR 'grade 11' OR 'grade 12' OR '7th grad*' OR '8th grad*' OR '9th grad*' OR '10th grad*' OR '11th grad*' OR '12th grad*' OR 'elementary school*' OR highschool* OR 'high school*' OR 'middle school*' OR 'junior high*' OR undergrad* OR 'under grad*' OR university OR freshm?n* OR sophomore* OR junior* OR collegiate OR 'first grad*' OR 'second grad*' OR 'third grad*' OR 'fourth grad*' OR 'fifth grad*' OR 'sixth grad*' OR 'seventh grad*' OR 'eighth grad*' OR 'ninth grad*' OR 'tenth grad*' OR 'eleventh grad*' OR 'twelfth grad*' OR highschooler? OR college* OR 'emerging adult*' OR freshm?n OR sophomore? OR 'high schooler?' OR 'elementary schooler?' OR 'middle schooler?'):ab,ti,kw OR 'adolescent'/exp OR 'adolescence'/exp OR 'young adult'/exp OR 'child'/de OR 'boy'/exp OR 'girl'/exp OR 'school child'/exp OR 'minor (person)'/exp OR 'single parent child'/exp OR 'pediatrics'/de OR 'child psychiatry'/exp OR 'child psychology'/exp OR 'hospitalized child'/exp OR 'institutionalized child'/exp OR 'middle school student'/exp OR 'high school student'/exp OR 'elementary student'/exp OR 'college student'/exp OR 'undergraduate student'/exp OR 'university student'/exp
#3	(young* NEAR/2 (adult* OR person* OR individual* OR people* OR population* OR man OR men OR women OR woman)):ab,ti,kw
#4	#2 OR #3
#5	(adult* OR 'middle age*' OR 'mid life' OR midlife OR elder* OR 'oldest old' OR centenarian? OR nonagenarian? OR octogenarian?):ab,ti,kw OR 'adult'/de OR 'aged'/de OR 'aged hospital patient'/exp OR 'frail elderly'/exp OR 'institutionalized elderly'/exp OR 'very elderly'/exp OR 'institutionalized adult'/exp OR 'middle aged'/exp
#6	((old* OR aged) NEAR/2 (person* OR individual* OR people* OR population* OR man OR men OR women OR woman)):ab,ti,kw
#7	#5 OR #6
#8	(detox* OR treat* OR therap* OR 'partial hospitaliz*'):ab,ti,kw OR 'therapy'/lnk OR 'drug dependence treatment'/de OR 'addiction medicine'/exp OR 'residential care'/exp OR 'detoxification'/de OR 'drug detoxification'/exp OR 'psychotherapy'/de OR (psychotherap*):ab,ti,kw OR 'group therapy'/exp OR ('group counsel*'):ab,ti,kw OR 'psychosocial intervention'/exp OR (intervention* or program*):ti,ab,kw OR 'methadone treatment'/exp OR 'opiate substitution treatment'/exp OR ('medication assist*' OR MOUD OR methadone OR buprenorphine):ab,ti,kw OR 'methadone'/exp OR 'buprenorphine'/exp OR (replac* or substitut* or maintain*):ab,ti,kw
#9	'rehabilitation'/de OR 'alcoholics anonymous'/exp OR 'community based rehabilitation'/exp OR 'narcotics anonymous'/exp OR 'rehabilitation care'/exp OR 'alcohol rehabilitation'/exp OR 'rehabilitation'/lnk OR (recover* OR 'REC CAP' OR sober* OR rehab* OR '12 step?' OR 'twelve step?' OR 'alcoholic* anonymous' OR alanon OR alateen OR 'narcotics anonymous' OR 'self help group?' OR 'support group?' OR 'therapeutic social club?' OR 'halfway hous*' OR 'half way hous*' OR

	'halfway home*' OR 'half way home*' OR 'transitional hous*' OR 'oxford house?' OR 'group home?' OR 'group hous*' OR 'alternative peer group?' OR clubhouse? OR 'club house?'):ab,ti,kw OR 'residential home'/exp OR (SMART NEAR/2 group?):ab,ti,kw OR ('action stage?' OR 'action phase?' OR 'maintenance stage?' OR 'maintenance phase?' OR 'self change'):ab,ti,kw OR 'social capital'/exp OR ('social capital' OR 'social infrastructure?'):ab,ti,kw OR 'web-based intervention'/exp OR ((online OR internet OR social OR web) NEAR/2 (intervention* or therap* or program*)):ab,ti,kw OR 'social support'/exp OR ('social support?' OR 'social care' OR 'family support?' OR 'family encouragement?' OR 'family assistance?' OR 'psychosocial support?' OR 'support system?' OR 'community support?' OR 'emotional support?'):ab,ti,kw
#10	#8 OR #9
#11	#1 AND #4 AND #10
#12	#1 AND #7 AND #9
#13 Youth	#11 AND [31-12-2022]/sd NOT [31-05-2023]/sd
#14 Adults	#12 AND [31-12-2022]/sd NOT [31-05-2023]/sd
#15	13 or 14

Supplemental Table 5, Full Search Strategy for Web of Science Searched on 5/17/23

#1	TS=(AUD OR SUD OR OUD OR addict* OR alcoholic* OR alcoholism) OR TS=((drug OR alcohol OR substance OR pill? OR opioid* OR opiate* OR amphetamine* OR inhalant* OR marijuana OR phencyclidine OR cocaine OR narcotic* OR barbiturate* OR cannabis OR PCP OR meth OR methamphetamine* OR ecstasy OR mdma) NEAR/2 (abuse* OR disorder? OR misuse* OR dependen* OR habit* OR problem? OR relaps*))
#2	TS=(child OR children* OR kid OR kids OR girl? OR boy? OR minor? OR youth* OR youngster* OR juvenile* OR preteen* OR pre teen* OR tween* OR teen* OR adolescen* OR pediatric* OR paediatric* OR "grade 7" OR "grade 8" OR "grade 9" OR "grade 10" OR "grade 11" OR "grade 12" OR "7th grad*" OR "8th grad*" OR "9th grad*" OR "10th grad*" OR "11th grad*" OR "12th grad*" OR "elementary school*" OR highschool* OR "high school*" OR "middle school*" OR "junior high*" OR undergrad* OR "under grad*" OR university OR freshm?n* OR sophomore* OR junior* OR collegiate OR first grad* OR second grad* OR third grad* OR fourth grad* OR fifth grad* OR sixth grad* OR seventh grad* OR eighth grad* OR ninth grad* OR tenth grad* OR eleventh grad* OR twelfth grad* OR highschooler? OR college* OR emerging adult* OR freshmen OR freshman OR sophomore? OR high schooler? OR elementary schooler? OR middle schooler?)
#3	TS=(young* NEAR/2 (adult* OR person* OR individual* OR people* OR population* OR man OR men OR women OR woman))
#4	#2 OR #3

#5	TS=(adult* OR middle age* OR mid life OR midlife OR elder* OR oldest old OR centenarian? OR nonagenarian? OR octogenarian?)
#6	TS=((old* OR aged) NEAR/2 (person* OR individual* OR people* OR population* OR man OR men OR women OR woman))
#7	#5 OR #6
#8	TS=(detox* OR treat* OR "residential care" OR therap* OR psychotherap* OR group counsel* OR partial hospitaliz* OR intervention* or program* OR medication assist* OR MOUD OR methadone OR buprenorphine OR replac* or substitut* or maintain*)
#9	TS=(recover* OR "REC CAP" OR sober* OR rehab* OR "residential home" OR "12 step?" OR "twelve step?" OR "alcoholic* anonymous" OR alanon OR alateen OR "narcotics anonymous" OR "self help group?" OR "support group?" OR "therapeutic social club?" OR "halfway hous*" OR "half way hous*" OR "halfway home*" OR "half way home*" OR "transitional hous*" OR "oxford house?" OR "group home?" OR "group hous*" OR "alternative peer group?" OR clubhouse? OR "club house?" OR (SMART NEAR/2 group?) OR "action stage?" OR "action phase?" OR "maintenance stage?" OR "maintenance phase?" OR "self change" OR "social capital" OR "social infrastructure?" OR "social support?" OR "social care" OR "family support?" OR "family encouragement?" OR "family assistance?" OR "psychosocial support?" OR "support system?" OR "community support?" OR "emotional support?") OR TS=((online OR internet OR social OR web) NEAR/2 (intervention* or therap* or program*))
#10	#8 OR #9
#11 Youth	#1 AND #4 AND #10
#12 Adults	#1 AND #7 AND #9
#13	11 or 12
Date range:	2022-12-31 to 2023-05-31