PI(E)COS Worksheet and Search Strategy

1. <u>Define your question using PI(E)COS by identifying: Patient/Population/Problem;</u> Intervention/Exposure, Comparison/Control Group and Outcome/s

Patient/Population/Problem:

- 1. People aged 18 years or older (i.e. adults)
- 2. Currently employed

Intervention:

Workplace-based interventions

Interventions must meet the following criteria to be considered a workplace-based intervention:

 Interventions must be sourced through, subsidised or provided by the employer (e.g potentially eligible interventions would be drug screening / testing, screening / assessment and referral, psychoeducation, group-based or individual psychosocial interventions, tele- or e-health, peer-support groups or self-help programs).

Comparison/Control:

Studies with or without a control group (e.g., usual care, active control, wait list control)

Outcomes of Relevance:

Substance use outcomes measured at the level of the individual (e.g. quantity and/or frequency of substance use measured via self-report of biological testing; severity of symptoms of substance use disorder measured by scores on self- or clinician-rated diagnostic questionnaires). Substance use outcomes at the organisational level will not be included in the review.

2. Type of question/problem: Treatment/Therapy/Intervention/Exposure

Primary question:

What is the efficacy, effectiveness and cost-effectiveness of workplace-based interventions for the prevention and treatment of substance use?

Secondary questions:

- (a) Which modalities of workplace-based interventions are effective for preventing and/or treating problematic substance use?
- (b) How do characteristics of the workplace or the workforce impact on which types of interventions are most effective to prevent and/or treat problematic substance use?
- (c) What are the challenges and difficulties in implementing interventions for different drug classes in the workplace?

3. Types of studies/publication to include in the search

Study designs INCLUDED in the review	Study designs EXCLUDED from the review
Primary research studies, including: Randomised controlled trials and other experimental studies Quasi-experimental studies (e.g. uncontrolled trials, pre-test/post-test designs)	Non-intervention/treatment studies, including: Observational studies (e.g. cross-sectional surveys, cohort and case studies) Qualitative studies Case report or series
Literature reviews, including:	 Protocol and conference papers Editorials or commentaries Animal studies

4. List the main topics and alternative terms from your PI(E)COS question that can be used for your search:

Condition (alcohol or other drug related terms)

substance use / drug use / alcohol use / substance abuse / drug abuse / alcohol abuse / substance dependence / drug dependence / alcohol dependence / substance use disorder / drug use disorder / alcohol use disorder / SUD / hazardous drinking / problem drinking / harmful drinking / risky drinking / drug testing

Subject heading

MeSH (MEDLINE/PubMed; Cochrane; CINAHL)

• substance-related disorders

Emtree (EMBASE)

- substance abuse
- drug abuse

APA's Thesaurus of Psychological Index Terms (PsychINFO)

• substance use disorder

Interventions (prevention or treatment related terms)

workplace / work-place / workforce / work-force / worksite / work-site / employee* / job* / employer* / vocation* / compan* / office / offices / factory / factories

AND

prevent* / program* / intervention* / train* / polic* / treatment* / service* / promotion* / education/ psychoeducation / peer-support* / peer support* / self-help* / self help*/support* / testing

Subject heading

MeSH (MEDLINE/PubMed; Cochrane; CINAHL)

occupational health services

APA's Thesaurus of Psychological Index Terms (PsychINFO)

- employee assistance programs
- workplace intervention

Efficacy and effectiveness terms

RCT / randomi?ed controlled trial* / clinical trial*/ efficacy trial*/ efficacy evaluation*/ systematic review*/ meta analy*/ meta-analy*/ effectiveness evaluation*/ pragmatic trial*/ effectiveness trial*/ outcome evaluation*/ impact evaluation*/ objective-based evaluation*/ summative evaluation*

Subject headings

MeSH (MEDLINE/PubMed; Cochrane; CINAHL)

• treatment outcome

Emtree (EMBASE)

• treatment outcome

APA's Thesaurus of Psychological Index Terms (PsychINFO)

treatment outcomes

Cost-effectiveness terms

cost benefit analys?s/ cost-benefit analys?s/ economic evaluation*/ costs and cost analys?s/ cost analys?s/ return on investment/ return to investment/ cost effectiveness analys?s/ cost-effectiveness analy?s/ cost utility analys?s/ cost effectiveness evaluation*/ cost-effectiveness evaluation*/ cost-utility analys?s

Subject headings

MeSH (MEDLINE/PubMed; Cochrane; CINAHL)

• cost-benefit analysis

Emtree (EMBASE)

cost benefit analysis

5. Write out your search strategy (adapt for each database)

PsychINFO (via Ovid)

- exp "Substance Use Disorder"/
- 2. ((use* or abuse* or misuse* or dependenc* or addict* or disorder* or problem* or hazard* or harm* or risk* or test*) adj4 (substance or drug* or alcohol* or amphetamine* or cannabis or marijuana or cocaine or inhalant* or hallucinogen* or phencyclidine or heroin or morphine or opioid* or stimulant* or sedative* or hypnotic* or anxiolytic* or benzodiazepine*)).mp.
- 3. SUD.mp.
- 4. 1 or 2 or 3
- 5. ((organi?ation* or busines* or labor or labour or corporat* or occupation* or workplace or work-place or workforce or work-force or worksite or work-site or employee* or job* or employer* or vocation* or compan* or office or offices or factory or factories) adj4 (prevent* or program* or intervention* or train* or polic* or treatment* or service* or promotion* or education* or psychoeducation or peer-support* or peer support* or self-help* or self help* or support* or test*)).mp.
- 6. ("employee assistance program" or EAP or "critical incident stress debriefing" or CISD).mp.
- 7. workplace intervention/ or employee assistance programs/
- 8. 5 or 6 or 7
- 9. treatment outcomes/
- 10. ("cost benefit analys?s" or "cost-benefit analys?s" or "economic evaluation*" or "cost and cost anals?s" or "cost analys?s" or "return on investment" or "return to investment" or "cost effectiveness analys?s" or "cost-effectiveness analys?s" or "cost utility analysis" or "cost-effectiveness evaluation* or RCT or randomi?ed controlled trial* or clinical trial* or efficacy trial* or efficacy evaluation* or systematic review* or meta analy* or meta-analy*" or "effectiveness evaluation*" or "pragmatic trial*" or "effectiveness trial*" or "outcome evaluation*" or "impact evaluation*" or "objective-based evaluation*" or "summative evaluation*").tw.
- 11. 9 or 10
- 12. 4 and 8 and 11

Medline (via Ovid)

- exp Substance-Related Disorders/
- 2. ((use* or abuse* or misuse* or dependenc* or addict* or disorder* or problem* or hazard* or harm* or risk* or test*) adj4 (substance or drug* or alcohol* or amphetamine* or cannabis or marijuana or cocaine or inhalant* or hallucinogen* or phencyclidine or heroin or morphine or opioid* or stimulant* or sedative* or hypnotic* or anxiolytic* or benzodiazepine*)).mp.
- 3. SUD.mp.
- 4. 1 or 2 or 3
- 5. ((organi?ation* or busines* or labor or labour or corporat* or occupation* or workplace or work-place or workforce or work-force or worksite or work-site or employee* or job* or employer* or vocation* or compan* or office or offices or factory or factories) adj4 (prevent* or program* or intervention* or train* or polic* or treatment* or service* or promotion* or education* or psychoeducation or peer-support* or peer support* or self-help* or self help* or support* or test*))).mp.
- 6. ("employee assistance program" or EAP or "critical incident stress debriefing" or CISD).mp.
- 7. 5 or 6
- 8. Treatment Outcome/
- 9. Cost-Benefit Analysis/
- 10. ("cost benefit analys?s" or "cost-benefit analys?s" or "economic evaluation*" or "cost and cost anals?s" or "cost analys?s" or "return on investment" or "return to investment" or "cost effectiveness analys?s" or "cost-effectiveness analys?s" or "cost-utility analysis" or "cost effectiveness evaluation*' or cost-effectiveness evaluation* or RCT or randomi?ed controlled trial* or clinical trial* or efficacy trial* or efficacy evaluation* or systematic review* or meta analy* or meta-analy*" or "effectiveness evaluation*" or "pragmatic trial*" or "effectiveness trial*" or "outcome evaluation*" or "impact evaluation*" or "objective-based evaluation*" or "summative evaluation*").tw.
- 11. 8 or 9 or 10
- 12. 4 and 7 and 11

EMBASE

- 1. exp substance abuse/
- exp drug abuse/
- 3. ((use* or abuse* or misuse* or dependenc* or addict* or disorder* or problem* or hazard* or harm* or risk* or test*) adj4 (substance or drug* or alcohol* or amphetamine* or cannabis or marijuana or cocaine or inhalant* or hallucinogen* or phencyclidine or heroin or morphine or opioid* or stimulant* or sedative* or hypnotic* or anxiolytic* or benzodiazepine*)).mp.
- 4. SUD.mp.
- 5. 1 or 2 or 3 or 4
- 6. ((organi?ation* or busines* or labor or labour or corporat* or occupation* or workplace or work-place or workforce or work-force or worksite or work-site or employee* or job* or employer* or vocation* or compan* or office or offices or factory or factories) adj4 (prevent* or program* or intervention* or train* or polic* or treatment* or service* or promotion* or education* or psychoeducation or peer-support* or peer support* or self-help* or self help* or support* or test*)).mp.
- 7. ("employee assistance program" or EAP or "critical incident stress debriefing" or CISD).mp.
- 8. 6 or 7
- 9. treatment outcome/
- 10. cost benefit analysis/
- 11. ("cost benefit analys?s" or "cost-benefit analys?s" or "economic evaluation*" or "cost and cost anals?s" or "cost analys?s" or "return on investment" or "return to investment" or "cost effectiveness analys?s" or "cost-effectiveness analys?s" or "cost-utility analysis" or "cost effectiveness evaluation*' or cost-effectiveness evaluation* or RCT or randomi?ed controlled trial* or clinical trial* or efficacy trial* or efficacy evaluation* or systematic review* or meta analy* or meta-analy*" or "effectiveness evaluation*" or "pragmatic trial*" or "effectiveness trial*" or "outcome evaluation*" or "impact evaluation*" or "objective-based evaluation*" or "summative evaluation*").tw.
- 12. 9 or 10 or 11
- 13. 5 and 8 and 12

Scopus

(TITLE-ABS-KEY (((use* OR abuse* OR misuse* OR dependenc* OR addict* OR disorder* OR problem* OR hazard* OR harm* OR risk* or test*) W/4 (substance OR drug* OR alcohol* OR amphetamine* OR cannabis OR marijuana OR cocaine OR inhalant* OR hallucinogen* OR phencyclidine OR heroin OR morphine OR opioid* OR stimulant* OR sedative* OR hypnotic* OR anxiolytic* OR benzodiazepine*)) OR SUD))

AND

(TITLE-ABS-KEY (((organi?ation* OR busines* OR labor OR labour OR corporat* OR occupation* OR workplace OR work-place OR workforce OR work-force OR worksite OR work-site OR employee* OR job* OR employer* OR vocation* OR compan* OR office OR offices OR factory OR factories) W/4 (prevent* OR program* OR intervention* OR train* OR polic* OR treatment* OR service* OR promotion* OR education* OR psychoeducation OR peer-support* OR "peer support*" OR self-help* OR "self help*" OR support* or test*)) OR "employee assistance program" OR EAP OR "critical incident stress debriefing" OR CISD))

AND

(TITLE-ABS-KEY ("randomi?ed controlled trial*" OR "clinical trial*" OR "efficacy trial*" OR "efficacy evaluation*" OR "systematic review*" OR "meta analy*" OR "meta-analy*" OR "effectiveness evaluation*" OR "pragmatic trial*" OR "effectiveness trial*" OR "outcome evaluation*" OR "impact evaluation*" OR "objective-based evaluation*" OR "summative evaluation*" OR "cost benefit analys?s" OR "cost-benefit analys?s" OR "economic evaluation*" OR "costs and cost analys?s" OR "cost analys?s" OR "return on investment" OR "return to investment" OR "cost effectiveness analys?s" OR "cost-effectiveness analy?s" OR "cost utility analys?s" OR "cost effectiveness evaluation*" OR "cost-effectiveness evaluation*" OR "cost-utility analys?s" OR RCT))

Cochrane Database

- 1. exp substance-related disorders/
- 2. (((use* OR abuse* OR misuse* OR dependenc* OR addict* OR disorder* OR problem* OR hazard* OR harm* OR risk* OR test*) adj4 (substance OR drug* OR alcohol* OR amphetamine* OR cannabis OR marijuana OR cocaine OR inhalant* OR hallucinogen* OR phencyclidine OR heroin OR morphine OR opioid* OR stimulant* OR sedative* OR hypnotic* OR anxiolytic* OR benzodiazepine*)) OR SUD)
- 3. occupational health services/
- 4. (((organi?ation* OR busines* OR labor OR labour OR corporat* OR occupation* OR workplace OR work-place OR workforce OR work-force OR worksite OR work-site OR employee* OR job* OR employer* OR vocation* OR compan* OR office OR offices OR factory OR factories) adj4 (prevent* OR program* OR intervention* OR train* OR polic* OR treatment* OR service* OR promotion* OR education* OR psychoeducation OR peer-support* OR "peer support*" OR self-help* OR "self help*" OR support* OR test*)) OR "employee assistance program" OR EAP OR "critical incident stress debriefing" OR CISD)
- Treatment outcome/
- 6. Cost-benefit analysis/
- 7. ("randomi?ed controlled trial*" OR "clinical trial*" OR "efficacy trial*" OR "efficacy evaluation*" OR "systematic review*" OR "meta analy*" OR "meta-analy*" OR "effectiveness evaluation*" OR "pragmatic trial*" OR "effectiveness trial*" OR "outcome evaluation*" OR "impact evaluation*" OR "objective-based evaluation*" OR "summative evaluation*" OR "cost benefit analys?s" OR "cost-benefit analys?s" OR "economic evaluation*" OR "costs and cost analys?s" OR "cost analys?s" OR "return on investment" OR "return to investment" OR "cost effectiveness analys?s" OR "cost-effectiveness analy?s" OR "cost utility analys?s" OR "cost effectiveness evaluation*" OR "cost-effectiveness evaluation*" OR "cost-utility analys?s" OR RCT)
- 8. (#1 OR #2) AND (#3 OR #4) AND (#5 OR #6 OR #7)

6. List any limits that may apply to your search:

Gender: Any Age: 18 years+

Year(s) of publication: 2010 to present

Language(s): English only Subjects: Humans only

7. List the databases you will search:

Academic databases:

- i. PsychINFO via Ovid
- ii. MEDLINE via Ovid
- iii. EMBASE via Ovid
- iv. Scopus via Ovid
- v. Cochrane Library

Grey literature databases:

- i. OpenGrey
- ii. WHOLIS (World Health Organisation library database)
- iii. APO (Analysis & Policy Observatory)