Outcomes

The O in PICO refers to the outcome(s) measured in a review or study.

- Which outcomes to annotate
- Domain & Measure
- Composite Outcomes
- Classification categories
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 - O Compliance with ...
 - O Discontinuation of ...
 - Disease Specific Mortality
 - Frequency of Medication Use
 - Life expectancy
 - Resolution of symptoms
 - Response rate/Response to treatment
 - Safety and Tolerability
 - o Survival
 - Symptom Burden
 - O Time to ...
 - Withdrawals due to Adverse Events

Which outcomes to annotate

Reviews (methods)

- · all primary outcomes
- · secondary outcomes are NOT being annotated unless they are found in the Summary of FIndings table (SoFt)
- all outcomes in the Summary of Findings table (SoFt)
- only annotate an outcome once if it is reported in both the SoFT and in the primary outcomes
- use separate (new) group for each outcome except for Composite Outcomes (see below)

Domain & Measure

- Outcome Domain refers to "what" is being measured for the outcome (e.g. anxiety, symptoms, exacerbations, quality of life, pain, etc.)
- Outcome Measure refers to the way the outcome was measured (e.g. Glasgow Outcome Scale, McGill Pain Questionnaire)

Domain & Measure with identical or synonymous concepts

- No need to annotate both Domain and Measure with identical or synonymous concepts
- Wherever possible annotate Domain using an appropriate Domain concept or Measure using an appropriate Measure concept i.e. if the
 concept is available from the correct dropdown
- If a Measure concept isn't available in the Measure dropdown but is available in the Domain dropdown, then go ahead & annotate as if it was
 a domain

Composite Outcomes

• These outcomes should be annotated in the same Outcome group using OR or AND

Group	Outcome	Category	Vocabulary term	Boolean operator	Category	Vocabulary term
1	perinatal death or severe morbidity	Mortality	Perinatal Death	OR	Physiological or clinical	severe morbidity
2	maternal death or severe morbidity	Mortality	Maternal Death	OR	Physiological or clinical	severe morbidity
3	death and morbidity	Mortality	Death	AND	Physiological or clinical	morbidity

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Classification categories

The classification categories come from the COMET (Core Outcome Measures in Effectiveness Trials) Initiative. Their Outcome Taxonomy Guide is available HERE.

The expandable tables below list a number of examples but are by far definitive lists.

• List of Categories with examples of concepts that all within each category

Category	Types & examples	Types & examples			
Adverse events	Outcomes that have b	een explicitly labelled as s	e form of unintended conse		
events	Types	Examples			
	Adverse event	Adverse effects			
	Adverse effect	Adverse events			
		Complications			
		Death			
		Drug reactions			
		Harm			
		Hospitalisation			
		Negative effects Safety			
		Serious Adverse Events			
		Toxicity			
		,			
Compliance with	Types	Examples			
treatment	Adherence to interve	ntion patient adherence	patient adherence		
		health promotions	aviour questionnaire findings		
Device /intervention	Туре	Examples			
failure	Device failure	Any treatment failure			
	Intervention failu	ure			

Function	Туре	Impact of disease or condition on
	Physical functioning	 ability to work physical activities of daily living (e.g. ability to walk, independence, performance status, disability index, measures relating to exercise, sleep, motor skills, sexual dysfunction)
	Social functioning	 social functioning (e.g. ability to socialise, behaviour within society, communication, psychosocial development, aggression, recidivism, life enjoyment, participation)
	Role functioning	 role ability to care for children work status
	Emotional functioning /wellbeing	emotions overall wellbeing (e.g. ability to cope, worry, frustration, confidence, self-esteem, psychological status)
	Cognitive functioning	cognitive function (e.g. memory lapse, lack of concentration, attention)

Infection

Types	Examples
Infection	Sepsis
Infectious diseases	Bacteraemia
	Specific infectious diseases e.g. malaria
	Markers of infection e.g. parasitaemia
	Viral load
	HIV status

Mental health

Туре	Examples	Notes
Mental Health	depression	any mental health-related conditions
	addiction	assessments of signs or symptoms relating to these conditions
	psychosis	
	dementia	
	anxiety	
	schizophrenia	
	post-traumatic stress disorder	

Mortality

Туре	Examples
Death	All Cause Mortality
Mortality	Overall Mortality
	All Cause Survival
	Overall Survival
	Cause-specific survival
	Cause-specific mortality

Pain	Type		xamples			
	Туре					
	• Pain	Pa				
	Pain reli		in Scores			
			in Measures			
	Pain Scales					
Physiological or clinical	Туре			Examples		
	Signs & symptoms			 presence of disease or symptoms absence of disease or symptoms remission duration of symptoms number of relapses improvement no improvement clinical success person's own view of general health 		
	Biological Markers General physical health measures Major morbidity event			blood components tissue analysis urinalysis bacteriological measures microbial measures oxygen saturation arterial blood gas test cholesterol blood pressure respiratory and heart rates BMI, lung function measures infant weight oxygen saturation fingerclip		
				Stroke		
Psychosocial	Туре	Exan	ıple			
	• Carini	social	Il problems			
	Social	smokii				
		smokii	ng abstinence			
		Levels	vels of maternal inconvenience			
		numbe	er of parental vis	isits		
	mother's view of a c			d		
				n		
		Consu	mption of health	nier food, drink etc.		
Quality of Life	Туре		Example			
	health-related		health-related	quality of life (HRQL	_)	
	Quality of Life					

quality of life

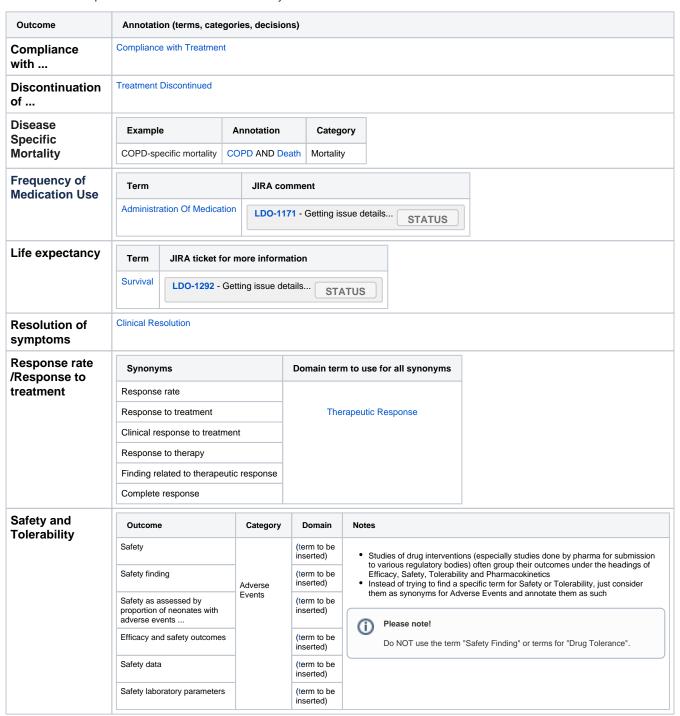
Resource use	Туре	Example	s						
	Economic	Cost analysis general costs							
	Hospital	Hospital • inpatient or day case hospital care (e.g. duration of hospital stay, admission to ICU) • number of admissions • readmission following treatment							
	Operative	Operative • surgical procedures (e.g. caesarean delivery, time to transplantation) • number of procedures							
	Medication	medication (e.g. concomitant medications, pain relief, rescue medication, medication errors) need for additional drugs or "dose of drug"							
	Societal/carer burden	financial or time implications on carer or society as a whole (e.g. need for home help, entry to institutional care, effect on family income, care burden)							
Satisfaction with care	Туре		Examples						
	Satisfactio	n with care	patient's views about the services they receive						
	Salisiacilo	ii wiiii care	clinician's assessment of adequacy of care or appropriateness of treatment						
			Carer's views on treatment received by those being care for						
Withdrawals or dropouts	Туре		Example						
from study	Withdrawal from study		Dropouts						
			Withdrawals						
			Cancellations						

• List of Concepts and what category to use for each one

Concept	Category
All cause mortality	Mortality
All cause survival	Mortality
Cause specific mortality	Mortality
Cause specific survival	Mortality
Clinical Success	Physiological or clinical
Death	Mortality
Duration of symptoms	Physiological or clinical
Improvement/no improvement	Physiological or clinical
Life Expectancy	Mortality
Number of relapses	Physiological or clinical
Overall mortality	Mortality
Overall survival	Mortality
Person's own view of general health	Physiological or clinical
Presence/absence of disease or symptoms	Physiological or clinical

How to Annotate

The table lists examples of which terms to select for commonly used outcomes



Survival	Terms to	use	Category	Notes				
	Progressio	n free survival	Mortality	• Th				
	Event free	survival			There are several narrower terms under the broader term Survival survival outcomes are mentioned on their own, then use the specific term			
	Disease fre	ee survival						
	Overall survival							
	Review	Outcome	Domain Measu		e Classifcation	Notes		
	CD008981	Survival free of any disability	Disability Event Surviv		ee Mortality	The aim is to annotate the "free of X" part in Outcome Domain and use the appropriate "Y-free Survival" term in Outcome Measure		
Symptom Burden	Duration of Symptom or Morbidity Index							
Time to	Time to Clinical Improvement							
	Time to Cli	inical Recovery						
	Time to de	fervescence						
	Time to co	ugh			Cough			
	Time to Dy	rspnea			Dyspnea			
	Time till the	e virus nucleic a	cid test goes r	negative/	2019-nCoV RT-PCR			
	Transition	time of novel co	ronavirus nucl	eic acid				
Withdrawals due to Adverse Events	Withdrawal Due to Adverse Events							