

Oregon Mental Health Clinical Advisory Group By-Laws

ARTICLE I

The Committee and its Members

During the 2019 legislative session, <u>Senate Bill 138</u> directed the Oregon Health Authority (OHA) to continue the work of the Mental Health Clinical Advisory Group (MHCAG). This 18-member workgroup is charged with making recommendations to OHA and the Pharmacy and Therapeutics (P&T) Committee. The group's key functions include making recommendations regarding the:

- Implementation of evidence-based algorithms and changes needed to the preferred drug list (PDL) used by the authority; and
- Practice guidelines for the treatment of mental health disorders.

The Oregon Health Authority (OHA) is committed to ending health inequities by 2030. The recruitment and retention of diverse memberships for OHA-sponsored advisory groups, committees and boards that reflect Oregon's population are crucial to meeting this goal. OHA staff assigned to support the MHCAG will engage in the recruitment and retention of a diverse membership.

Applicants to the MHCAG must submit application materials including their resume and conflict of interest declaration form. All applications are forwarded and reviewed by at least 2 OHA staff members. Members are appointed by OHA Director and receive a signed letter from the Director, via email, notifying them of their appointment.

All members must complete a conflict of interest form annually.

Members will serve on the MHCAG for 3 years, from the date of their membership appointment. Members serve at the pleasure of the OHA Director. Appointed members will be reimbursed for travel expenses incurred in the performance of the member's official duties according to current policy.

If a member chooses to resign, they must submit a resignation letter, which will be saved in the electronic files for the group.

All members are eligible for reappointment upon the end of their term provided they indicate their intent to OHA staff. They will be considered for reappointment along with others applying to the committee when a vacancy is announced.



ARTICLE II

Committee Officers and Duties

The chair and vice chair must be members of the group. The committee will elect these positions in compliance with Oregon public meeting statute. All voting must occur in an open ballot fashion.

The term of the chair and vice chair will be one year from the date of election to the office. Both are eligible for re-election to the Chair and Vice Chair positions at the end of their terms.

In consultation with OHA staff, the chair or vice chair (in the chair's absence) are responsible for determining the meeting frequency along with meeting location.

The Chair and Vice Chair are responsible for explaining the MHCAG's recommendations at P&T Committee meetings.

Should the chair and vice-chair be unable to attend an MHCAG meeting, the chair shall designate another MHCAG member as temporary chair so that the meeting can still occur.

In the absence of an officer, OHA will facilitate all special meetings.

ARTICLE III

Committee Members and Duties

Group members are expected to attend meetings, participate in all regular meetings, and review materials prior to the meeting. If the group member has more than three unexcused absences during a calendar year, the chair can request OHA staff to have group member removed and replaced with a new group member through the selection process noted above.

A conflict of interest statement must be signed by each group member yearly.

ARTICLE IV Committee Meetings

The group chair has the authority to call the group together.

The committee's business will be conducted in accordance with public meeting's law and in conformity with ORS 192.610-192.690.



All effort shall be made to make materials and meeting agendas available to the group and the public one week prior to the meeting date. Meeting minutes will be posted to the MHCAG website:

http://www.oregon.gov/oha/HSD/OHP/Pages/PT-MHCAG.aspx.

A quorum is necessary for a vote at regular meetings. For regular meetings, a quorum is defined as a majority. Ten is the number required for a regular meeting quorum when all 18 seats are filled on the MHCAG.

No formal business shall take place at special meetings. Two MHCAG members constitutes a quorum at special meetings.

During regular meetings, actions will be conducted by a committee member making a motion, another committee member seconding that motion, and then a consensus vote will take place.

Consensus votes are:

- Supports, without reservations- The member supports all aspects of the issue being voted upon
- Supports, with reservation(s)- The member supports certain aspects, but not all, of the issue being voted upon, but can accept the proposal
- No Support- The member articulates an alternative proposal and has prepared materials for the group to review and consider the alternative proposal

Resolutions will be carried forward dependent upon that vote. Resolutions that move forward will be based on a majority and not unanimous vote. The committee will strive to conduct business through discussion and consensus. Official actions will be recorded in the meeting minutes.

Electronic/telephonic vote may be used in compliance with Oregon public meeting laws.

Attendance will be collected by OHA staff. Prior coordination with committee staffand the committee chair is encouraged when a member knows they will be absent.

The chair will conduct business as needed, i.e. the chair may institute processes to enable further decision making and move the work of the group forward.

Public testimony will occur at the beginning of a meeting and each speaker will be limited to three minutes. A speaker cannot decline their 3-minute allotment and then gift that time to adifferent speaker.

ARTICLE V





To ensure the MHCAG meets its goal of developing high-quality, clinically relevant behavioral health treatment algorithms based on best available evidence, patient values and current health inequities, the MHCAG will follow systematic evidence review standards. These standards can be found in the appendix to the <u>bylaws</u>.

ARTICLE VI

Amendments to the By-Laws

To change bylaws, changes must be discussed by the group and receive a quorum vote at a regular meeting.

Mental Health Clinical Advisory Group Research Methods

House Bill 2300 (2017) and Senate Bill 138 (2019)

- The MHCAG will develop evidence-based algorithms for mental health treatments
- Algorithms for mental health drugs must consider the following:
 - Efficacy and Safety
 - Cost
 - Patient-specific factors
- Algorithms for mental health drugs must be based on:
 - Peer-reviewed medical literature
 - Observational studies
 - Health economic analyses
 - Input from patients and physicians
 - Any other information that the MHCAG deems appropriate
- The MHCAG makes recommendations to the OHA Pharmacy and Therapeutics Committee on:
 - o Implementation of evidence-based treatment algorithms
 - Changes to any preferred drug list used by OHA
 - Practice guidelines for the treatment of mental health disorders with mental health drugs
- All agencies of state government are directed to assist the MHCAG in the performance of their duties
- Mental health drugs in this context include prescription drugs within Standard Therapeutic Classes 07 (ataractics, tranquilizers) and 11 (psychostimulants, antidepressants), lamotrigine and divalproex

The MHCAG Mission

Develop high-quality, clinically relevant behavioral health treatment guidance documents based on best available evidence, patient values and addressing current health inequities.

The Research Methods

- 1. Develop specific clinical research questions
 - a. Determines scope, defined and focused
 - b. Identify PICOS
 - Population: populations based on demographic characteristics and clinical diagnoses; include marginalized populations based on race, ethnicity and other factors in which evidence would help address existing health inequities
 - ii. Intervention: the specific treatment that needs to be reviewed
 - iii. Comparator: fair and reasonable treatment comparison
 - iv. Outcomes: clinically important outcomes assessed at appropriate timeframe
 - v. Setting: provider type and level of care
- 2. Identify high quality systematic reviews from the following preferred sources:

- Drug Use Research & Management Program (DURM) at Oregon State University College of Pharmacy
- ii. Drug Effectiveness Research Project (DERP) at the Pacific Northwest Evidence-based Practice Center at Oregon Health & Science University
- iii. Agency for Healthcare Research and Quality (AHRQ)
- iv. Canadian Agency for Drugs and Technologies in Health (CADTH)
- v. National Institute for Clinical Excellence (NICE)
- vi. BMJ Clinical Evidence
- vii. U.S. Department of Veterans Affairs/Department of Defense (VA/DoD)
- 3. Identify other relevant literature from biomedical databases using appropriate search criteria
 - a. Databases include: MEDLINE (Ovid, PubMed), Epistemonikos, ACCESSSS, NCBI Bookshelf
- 4. The MHCAG relies primarily on high quality systematic reviews and randomized controlled trials (RCT) to assess efficacy and harms treatment outcomes.
 - a. High-quality systematic reviews meet AMSTAR II criteria (see **Appendix 1**).
 - b. The internal validity of RCTs is assessed using a modified Cochrane Risk of Bias tool (see **Appendix 2**).
 - c. FDA analyses, if available, may also be considered to complement published studies
 - d. Research will be based on hierarchy of evidence:
 - i. Systematic reviews (high quality)
 - ii. Randomized, controlled trial (high quality)
 - iii. Large, longitudinal, controlled cohort studies (especially for safety outcomes)
 - iv. Poorer quality systematic reviews and controlled trials
 - v. Case-control studies
 - vi. Cross-sectional studies
 - vii. Unpublished controlled studies (e.g., posters, abstracts, presentations, etc.)
 - viii. Non-controlled studies
 - 1. Surveys
 - 2. Case series
 - 3. Case reports
 - e. Large observational studies and systematic reviews of observational studies can be used to evaluate long-term safety outcomes
 - f. Expert opinion may be considered to answer very specific research questions that cannot be answered by controlled studies
 - g. Studies which evaluate clinically meaningful outcomes will be emphasized over studies which evaluate proxies for these outcome (surrogate endpoints)
 - i. Mortality
 - ii. Morbidity
 - iii. Quality of life
 - iv. Function
 - v. Symptoms
 - h. Studies which evaluate U.S. populations, in particular populations from historically marginalized U.S. communities and groups (BIPOC, houseless, Medicaid, etc.) will also be emphasized
- 5. The MHCAG will utilize high-quality clinical practice guidelines to complement outcomes data found in the primary literature
 - a. Systematically developed with high standards using the Grading of Recommendations Assessment, Development, and Evaluation (GRADE) approach
 - b. Provides transparent process using evidence and other data to make recommendations
 - c. Thoroughly researched and cited using multiple relevant references

- d. Meets the modified AGREE II-GRS criteria (see Appendix 3)
- 6. GRADE the evidence
 - a. GRADE (Grading of Recommendations, Assessment, Development and Evaluations)
 - i. A transparent, systematic framework for developing and presenting summaries of evidence
 - ii. Quality of evidence is applied to each outcome researched, based on the clinical research questions
 - b. Grade certainty ratings:

Certainty	Interpretation
Very low	The true effect is probably markedly different from the estimated effect
Low	The true effect might be markedly different from the estimated effect
Moderate	The true effect is probably close to the estimated effect
High	The true effect is similar to the estimated effect

- c. By necessity there is a considerable amount of subjectivity in each GRADE
- d. Assess 5 factors across the individual studies that are sufficiently large enough to affect certainty in an outcome and downgrade an initial certainty GRADE of High (RCT) or an initial certainty GRADE of Low (observational studies) one level lower
 - i. Risk of bias: allocation concealment, blinding, attrition
 - ii. Imprecision: 95% confidence intervals encompass a reasonable range
 - iii. Inconsistency: effect estimate similar across studies
 - iv. Indirectness: applicability of patients, intervention, outcomes and setting
 - v. Publication bias: missing evidence, study funding
- e. Certainty may be rated up for: large magnitude of effect; obvious dose-response gradient; when all residual confounding would decrease the magnitude of effect (in situations with an effect); or at the majority judgment of MHCAG when significant clinical experience with the treatment and patient preferences are considered.

APPENDIX 1. Methods to Assess Quality of Systematic Reviews.

The AMSTAR II was developed and shown to be a reliable measurement tool to assess the methodological quality of systematic reviews. There are 16 components addressed in the tool below, and questions can be scored in one of four ways: "Yes", "Partial Yes", "No", or "Not Applicable".

High quality systematic reviews do not contain a "fatal flaw" (ie, comprehensive literature search not performed (#4); characteristics of studies not provided (#8); quality of studies was not assessed or considered when conclusions were formulated (#9 and #13)). In general, a high-quality systematic review will score a "yes" on most components presented in the AMSTAR II tool.

Systematic reviews or guidance identified from 'best sources' undergo methodological rigor considered to be of high quality and are not scored for quality. 'Best sources' include: DURM; DERP; AHRQ; NICE; VA/DoD; CADTH; and BMJ Clinical Evidence.

<u>Ref.</u> Shea BJ, Reeves BC, Wells G, Thuku M, Hamel C, et al. AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or non-randomised studies of healthcare interventions, or both. BMJ. 2017 Sep 21;358:j4008. doi: 10.1136/bmj.j4008.

	AMSTAR II Quality Scoring Template				
1)	Did the research questions and inclusion criteria for the review include the components of PICO?				
	For	Yes:		□ Yes	
		Population	Optional (recommended)	□ No	
		Intervention	 Timeframe for follow-up 		
		Comparator group			
		Outcome			

2)	Did the report of the review contain an explicit statement that the review methods were established prior to the conduct of the review and did the report justify any significant deviations from the		
	protocol?	and the report justiny any significant decidation	o ii oiii tiile
	For Partial Yes: The authors state	For Yes: As for partial yes, plus the protocol	□ Yes
	that they had a written protocol or	should be registered and should also have	□ Partial Yes
	guide that included ALL the	specified:	□ No
	following:	 meta-analysis/synthesis plan, if 	
	review question(s)	appropriate, and	
	search strategy	 plan for investigating causes of 	
	inclusion/exclusion criteria	heterogeneity	
	 risk of bias assessment 	 justification for any deviations from 	
2)	B:141 : 41 1:41:	the protocol	
3)	-	election of the study designs for inclusion in th	
	For Yes, the review should satisfy ONE Explanation for including only RC	_	□ Yes □ No
	· · · · · · · · · · · · · · · · · · ·	non-randomized studies of interventions	□ INO
	(NRSI)	Tion-randomized studies of interventions	
	 OR Explanation for including both 	n RCTs and NRSI	
4)	Did the review authors use a compreh		
•	For Partial Yes (all the following):	For Yes, should also have (all the following):	□ Yes
	searched at least 2 databases	searched the reference lists /	□ Partial Yes
	(relevant to research question)	bibliographies of included studies	□ No
	 provided key word and/or 	searched trial/study registries	
	search strategy	 included/consulted content experts in 	
	 justified publication restrictions 	the field	
	(e.g. language)	where relevant, searched for grey	
		literature	
		conducted search within 24 months of	
- \	Did the verience enthance newform study	completion of the review	
5)	Did the review authors perform study For Yes, either ONE of the following:	selection in auplicate:	□ Yes
		ly agreed on selection of eligible studies and	□ No
	achieved consensus on which stu		_ 110
		e of eligible studies and achieved good	
		ne remainder selected by one reviewer.	
6)	Did the review authors perform data	extraction in duplicate?	
	For Yes, either ONE of the following:		□ Yes
	 at least 2 reviewers achieved con 	sensus on which data to extract from	□ No
	included studies		
		om a sample of eligible studies and achieved	
_,		with the remainder extracted by one reviewer.	
7)	-	of excluded studies and justify the exclusions?	- W
	For Partial Yes:	For Yes, must also have:	☐ Yes
	 provided a list of all potentially relevant studies that were read 		□ Partial Yes□ No
	in full-text form but excluded	of each potentially relevant study	□ INO
	from the review		
8)	Did the review authors describe the in	ocluded studies in adequate detail?	
0)	For Partial Yes (ALL the following):	For Yes, should also have ALL the following:	□ Yes
	described populations	described population in detail	☐ Partial Yes
	 described interventions 	described intervention in detail	
	 described comparators 	(including doses where relevant)	
	described outcomes	described comparator in detail	
	 described research designs 	(including doses where relevant)	
		 described study's setting 	
		 timeframe for follow-up 	

9)	Did the review authors use a satisfactory te	chnique for assessing the risk of bias (Rol	3) in studies that
	were included in the review?		
RCTs		Yes, must also have assessed RoB from:	□ Yes
	RoB from:	allocation sequence that was not truly	□ Partial Yes
	 unconcealed allocation, and 	random, and	□ No
	$\ \square$ lack of blinding of patients and $\ \square$	selection of the reported result from	Includes only
	assessors when assessing	among multiple measurements or	NRSI
	outcomes (unnecessary for	analyses of a specified outcome	
	objective outcomes such as all-		
	cause mortality)		
NRSI	For Partial Yes, must have assessed For	Yes, must also have assessed RoB:	☐ Yes
	RoB:	methods used to ascertain exposures	Partial Yes
	 from confounding, and 	and outcomes, and	□ No
	□ from selection bias □	selection of the reported result from	Includes only
		among multiple measurements or	RCTs
		analyses of a specified outcome	
10)	Did the review authors report on the source	es of funding for the studies included in	
	the review?		
	For Yes: Must have reported on the sources	of funding for individual studies	☐ Yes
	included in the review. Note: Reporting that	the reviewers looked for this	□ No
	information, but it was not reported by stud	y authors also qualifies	
11)	If meta-analysis was performed did the rev	iew authors use appropriate methods for	statistical
	combination of results?		
RCTs	For Yes:		□ Yes
	The authors justified combining the da		□ No
	 AND they used an appropriate weighte 		□ No meta-
	and adjusted for heterogeneity if prese		analysis
	 AND investigated the causes of any het 	erogeneity	conducted
NRSI	For Yes:	<u>.</u>	□ Yes
	The authors justified combining the da		□ No
	 AND they used an appropriate weighte 	d technique to combine study results,	□ No meta-
	adjusting for heterogeneity if present		analysis
		estimates from NRSI that were adjusted	conducted
	for confounding, rather than combining	-	
	data when adjusted effect estimates w		
		estimates for RCTs and NRSI separately	
12\	when both were included in the review		of Dan in
12)	If meta-analysis was performed, did the revindividual studies on the results of the meta-		DI KOD IN
	For Yes:	a-analysis of other evidence synthesis:	□ Yes
	□ included only low risk of bias RCTs		□ No
		n RCTs and/or NRSI at variable RoB, the	□ No meta-
	•	rate possible impact of RoB on summary	analysis
	estimates of effect.	ate possible impact of Nob off summary	conducted
13)	Did the review authors account for RoB in i	ndividual studies when interpreting/disc	
13)	of the review?	mulvidudi studies when interpreting, disc	ussing the results
	For Yes:		□ Yes
	☐ included only low risk of bias RCTs		□ No
	 OR, if RCTs with moderate or high RoB, 	or NRSI were included the review	
	provided a discussion of the likely impa		
14)	Did the review authors provide a satisfacto		heterogeneity
,	observed in the results of the review?	, - ,	
	For Yes:		□ Yes
	There was no significant heterogeneity	in the results	□ No
	· .		

	 OR if heterogeneity was present the authors performed an investigation of 	
	sources of any heterogeneity in the results and discussed the impact of this on	
	the results of the review	
15)	If they performed quantitative synthesis did the review authors carry out an adequ	ate investigation
	of publication bias (small study bias) and discuss its likely impact on the results of t	he review?
	For Yes:	☐ Yes
	 performed graphical or statistical tests for publication bias and discussed the 	□ No
	likelihood and magnitude of impact of publication bias	□ No meta-
		analysis
		conducted
16)	Did the review authors report any potential sources of conflict of interest, including	g any funding they
	received for conducting the review?	
	For Yes:	☐ Yes
	 The authors reported no competing interests OR 	□ No
	 The authors described their funding sources and how they managed potential conflicts of interest 	

APPENDIX 2. Methods to Assess Quality of Randomized Controlled Trials.

A bias is a systematic error, or deviation from the truth, in study results. It is not possible to determine the extent biases can affect results of a particular study, but flaws in study design, conduct and analysis of data are known to lead to bias. Biases vary in magnitude but can underestimate or overestimate the true effect of the intervention in clinical trials; therefore, it is important to consider the likely magnitude of bias and direction of effect. For example, if all methodological limitations of studies were expected to bias the results towards a lack of effect, and the evidence indicates that the intervention is effective, then it may be concluded that the intervention is effective even in the presence of these potential biases. Types of common bias are outlined in Table 1.

Table 1. Types of Bias: Cochrane Risk of Bias (modified).

Selection Bias	Systematic differences between groups in their baseline characteristics.
	Successful <i>randomization</i> prevents selection bias because allocation concealment is implemented. How participants are allocated to groups must be specified, based on some chance (random) process. Furthermore, steps are taken to ensure group assignments are random by preventing knowledge of forthcoming group allocation.
Performance Bias	Systematic differences between groups in the care provided, or in exposure to factors other than the primary study intervention.
	Blinding study participants and healthcare providers after group allocation reduces the risk that knowledge of which intervention was received affected the outcomes. Effective blinding ensures all groups receive a similar care experience, including ancillary treatments and diagnostic investigations, and minimizes deviations from the study protocol.
Detection Bias	Systematic differences between groups in how study endpoints are assessed. Blinding study investigators reduces the risk that knowledge of which intervention was received, rather than the intervention itself, affected measurement of study endpoints.
Attrition Bias	Systematic differences between groups in study withdrawals, either by exclusion or attrition.
	Withdrawals from the study lead to incomplete outcome data. Exclusions refer to situations in which participant data are omitted from analyses despite being available to investigators. Attrition refers to situations in which outcome data are not available (missed appointments or other protocol deviation, or early study discontinuation).
Reporting Bias	The selective reporting of pre-specified endpoints based on the results found.

	Reporting bias may arise if results of pre-specified endpoints are omitted or are measured differently or distorted in any way from what was explicitly described in the protocol. Reporting bias may also be introduced when primary endpoints in which statistically significant differences between groups are not found are selectively reported while secondary endpoints which found statistically significant differences are over-emphasized.
Other Biases	Other potential sources of bias include investigator's conflicts of interest and study funding sources, which should be collected and presented in the publication. Other biases related to trial designs can be introduced (eg, carry-over from cross-over trials, recruitment bias in cluster-randomized trials, or sources of bias from single-centered trials or particular clinical settings).

Ref. Cochrane Handbook for Systematic Reviews of Interventions, v. 5.1.0 (updated March 2011). The Cochrane Collaboration. (http://handbook.cochrane.org)

Each risk of bias domain is assessed and determined to be LOW, HIGH, or UNCLEAR (**Table 2**). Unclear risk of bias will be interpreted as high risk of bias when quality of evidence is graded (**Appendix x**).

Table 2. Methods to Assess Risk of Bias in Clinical Trials: Cochrane Risk of Bias (modified).

SELECTION BIAS				
Risk of Bias	LOW	HIGH	UNCLEAR	
Inadequate randomization	Sequence generated by: Computerized random number generator Random number table	 Sequence generated by: Date of birth Admission date Patient identifier number Alternating numbers 	Method of randomization not described in sufficient detail for definitive judgment	
Inadequate allocation concealment	Group allocation cannot be predicted because: Centrally allocated Sequentially numbered drug containers of identical appearance Sequentially numbered, opaque, sealed envelopes	Group allocation may be predicted because: Open allocation Drug containers may differ in appearance Envelopes without appropriate safeguards	Method of concealment not described in sufficient detail for definitive judgment	
Unbalanced baseline characteristics Note: Statistical tests of baseline characteristics are not helpful.	Important prognostic factors similar between groups at baseline	Important prognostic factors are not balanced, which indicates inadequate allocation concealment or failed randomization.	Important prognostic factors are missing from baseline characteristics (eg, comorbidities, medical/surg history, concurrent meds)	
PERFORMANCE BIA	NS .			
Risk of Bias	LOW	HIGH	UNCLEAR	
Standard of care was not consistent across all groups or sites.	 Study participants could not identify study assignment because blinding was ensured and unlikely to be broken (ie, double-dummy design with matching descriptions) Protocol standardized across all sites and followed consistently 	 Open-label or incomplete blinding Observed differences in appearance, taste/smell or adverse effects between groups may have broken blinding Some sites had a different standard of care or varied from protocol which likely influenced effect estimate 	Blinding process not described or insufficient information to permit definitive judgment	
DETECTION BIAS	I		T	
Risk of Bias	LOW	HIGH	UNCLEAR	

Investigators who analyzed data unblinded	 Blinding of data assessors was ensured and unlikely broken No data blinding or incomplete blinding, but effect estimate unlikely influenced by clearly defined objective endpoints and large magnitude of difference between groups 	No blinding or blinding potentially broken, which likely influenced effect estimates because of inconsistencies between efficacy endpoints or subjective endpoints not well defined.	Blinding process not described or insufficient information to permit definitive judgment
ATTRITION BIAS			
Risk of Bias	LOW	HIGH	UNCLEAR
High attrition or differential	 No missing data Reasons for missing outcome data unlikely to influence effect estimates 	 High withdrawal rate (eg, >10% for short-term studies; >20% for longer-term studies) Difference in attrition >10% between groups 	Not described or insufficient reporting of attrition/exclusions post-randomization to permit judgment
Missing data handled inappropriately	 Intention-to-treat analysis performed for superiority trials Intention-to-treat and perprotocol analyses performed and compared for non-inferiority trials Appropriate censoring rules applied depending on nature of study (eg, last-observation-carried-forward (LOCF) for curative conditions, or for treatments that improve a condition over time like acute pain, infection, etc.) Reasons for missing outcome data unlikely to influence effect estimates 	 As-treated analyses performed with substantial departure from randomized number Per-protocol analyses or modified-intention-to-treat with substantial amount of missing data Potentially inappropriate imputation of missing data (eg, LOCF for chronic, deteriorating conditions like HF, COPD, or cancer, etc.) 	Not described or insufficient reporting of attrition/exclusions post-randomization to permit judgment
REPORTING BIAS			
Risk of Bias	LOW	HIGH	UNCLEAR
Selective reporting of endpoints	 Study protocol is available and was followed all pre-specified primary and secondary endpoints are reported Study protocol is not available, but all endpoints are reported as pre-specified in the study methods 	 Not all pre-specified primary and secondary endpoints reported Primary endpoint(s) reported using measurements, analyses, or subsets of patients that were not pre-specified (eg, post-hoc analysis; protocol change without justification) Primary endpoint(s) not pre-specified or statistical analyses not described in methods Inappropriate over-emphasis of positive secondary endpoints in study with negative primary endpoint 	Insufficient information to make determination
OTHER BIASES		·	
Risk of Bias	LOW	HIGH	UNCLEAR
Evidence of other biases not described in the categories above	Investigators and authors report no conflicts of interest or study sponsor was not involved in trial	Conflicts of interest with investigators or authors based on funding source	Conflicts of interest declarations or funding sources not reported

design, data analysis or publication No other potential sources of bias identified	 Study sponsor is involved in trial design, data analysis, and publication of data Interventions in run-in period may impact effect of interventions post-randomization Recruitment bias in cluster-randomized trials Early study termination based on positive results Carry-over effects in cross-over trials Protocol deviation based on interim results 	Insufficient information regarding other trial methodology and design to make a determination
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Ref. Cochrane Handbook for Systematic Reviews of Interventions, v. 5.1.0 (updated March 2011). The Cochrane Collaboration. (http://handbook.cochrane.org)

The Patient, Intervention, Comparator, Outcome, and Setting (PICOS) framework is used to assess applicability (directness) of the evidence to Oregon's populations (**Table 3**).

Table 3. PICOS Domains that Determine Applicability

Table 5. PICOS Domains that Determine Applicability			
PICOS Domain	Conditions that Limit Applicability		
Patients	Narrow eligibility criteria and broad exclusion criteria		
	Significant differences between the demographic characteristics of the study population		
	and the Oregon's populations of interest		
	Narrow or unrepresentative severities in stage of illness or comorbidities (eg, only mild or		
	moderate severity of illness included)		
	Run-in period with high exclusion rate for non-adherence or adverse effects		
	Event rates in study much lower/higher than observed in Oregon's populations of interest		
Interventions	Dose, frequency of administration, formulation not reflective of clinical practice		
	Intensity/delivery of interventions not feasible for routine use in clinical practice		
	Concomitant interventions likely over- or underestimate effectiveness of therapy		
Comparators	Inadequate dose or frequency of administration of comparator		
	Use of inferior or substandard comparator relative to other alternatives		
Outcomes	Short-term or surrogate endpoints assessed		
	Instrument used to assess endpoints is difficult to use or impractical to implement in		
	clinical practice		
	Composite endpoint used that mix outcomes of different significance		
Settings	Standards of care in study setting differ markedly from clinical practice		
	Monitoring/visit frequency not feasible for routine use in clinical practice		
	Level of care provided from specialists does not reflect clinical practice where intervention		
	is likely to be used		
	# 15 5 · · · · · · · · · · · · · · · · ·		

Ref. Cochrane Handbook for Systematic Reviews of Interventions, v. 5.1.0 (updated March 2011). The Cochrane Collaboration. (http://handbook.cochrane.org)

APPENDIX 3. Methods to Assess Quality of Clinical Practice Guidelines.

Clinical practice guidelines are systematically developed statements that assist clinicians in making clinical decisions. However, guidelines can vary widely in quality and utility. The Appraisal of Guidelines, Research, and Evaluation (AGREE) Instrument (www.agreetrust.org) assesses the methodologic rigor in which a guideline is developed and used. The consolidated AGREE II Global Rating Scale (GRS) is an easy-to-administer, validated instrument that consists of 4 items (Table x). Each item is rated on a 7-point scale, from 0=lowest quality to 7=highest quality. In general, a high-quality clinical practice guideline will score 5-7 points on each component of the AGREE II-GRS.

Table x. AGREE II Global Rating Scale (modified).

	ITEM	DESCRIPTION
PRO	OCESS DEVELOPMENT	
1	Rate the guideline development methods. SCORE:	 Appropriate stakeholders were involved in the development of the guideline. The evidence-base was developed systematically. Recommendations were consistent with the literature. Consideration of alternatives, health benefits, harms, risks, and costs were made.
PRE	SENTATION STYLE	
2	Rate the guideline presentation. SCORE:	The guideline was well organized.The recommendations were easy to find.
CLI	NICAL VALIDITY	
3	Rate the guideline recommendations. SCORE:	 The recommendations are clinically sound. The recommendations are appropriate for the intended patients.
CO	MPLETENESS OF REPORTING	
4	Rate the completeness of reporting, editorial independence. SCORE:	 The information is complete to inform decision-making. The guideline development process is transparent and reproducible.
5	The views of the funding body did not influence the content of the guideline. SCORE:	 The name of the funding body or source of funding is explicitly stated (or explicit statement of no funding) There is a statement that the funding bodies did not influence the content of the guideline, or at least how the guideline development group addressed potential influence from the funding bodies.
6	Competing interests of guideline development group members were recorded and addressed. SCORE:	 A description of the types of competing interests is considered. Methods by which potential competing interests were sought. Competing interests are described. How the competing interests influenced the guideline process and development of recommendations is described.