

## Health Policy and Analytics

### Mental Health Clinical Advisory Group Bylaws

#### ARTICLE I

##### *The Committee*

[Oregon Revised Statute 414.359](#) establishes the [Mental Health Clinical Advisory Group](#) (MHCAG) within Oregon Health Authority. The MHCAG develops evidence-based algorithms for mental health treatments, including treatments with mental health drugs. This 18-member advisory group 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 OHA;
- Practice guidelines for the treatment of mental health disorders;
- Coordinating the work of the group with the Oregon Psychiatric Access Line (OPAL).

##### *Committee Recruitment and Retention*

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 reviewed by at least two OHA staff members. Members are appointed by the OHA Director or their designee and receive a signed letter notifying them of their appointment.

##### *Committee Membership*

Members will serve on the MHCAG for up to 3 years, from the date of their membership appointment. All MHCAG meetings are currently virtual. However, should there be a future in-

person meeting, 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 notify OHA staff by email. 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 group 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, meeting location (virtual or in-person), and meeting agendas.

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 staff will facilitate meetings.

OHA staff are responsible for explaining the MHCAG's recommendations at P&T Committee meetings.

## **ARTICLE III**

### *Committee Members and Duties*

Group members are expected to attend meetings, participate in all 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 the member removed and replaced with a new member through the selection process noted above.

A conflict-of-interest (COI) statement must be signed by each group member annually. The Chair may designate time each year during a meeting for members to fill out and sign their COI

statement.

## **ARTICLE IV**

### *Committee Meetings*

The 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.

Meeting agendas and materials will be made available to the group and the public at least one week prior to the meeting date. Meeting summaries will be posted to the [MHCAG website](#).

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

During meetings, actions will be conducted by Robert's Rules: a member makes a motion; another member seconds that motion; the group may discuss the motion on the table; and then the chair takes a consensus vote of each member present to carry the motion.

Resolutions will be carried forward dependent upon that vote. Resolutions that move forward will be based on a majority and not unanimous vote. The group 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 OHA staff and the 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. Each speaker will be limited to three minutes. A speaker cannot decline their 3-minute allotment and then gift that time to a different speaker. Each speaker must submit a completed and signed [public comment form](#) to OHA staff after the conclusion of the meeting.

## **ARTICLE V**

## *Research Methods Used for Clinical Guideline Publication*

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 [bylaws](#).

## **ARTICLE VI**

### *Amendments to the By-Laws*

To change bylaws, changes must be discussed by the group and receive a quorum vote at a meeting. The bylaws should be reviewed, and if necessary, updated annually.

# 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:
  - 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
    - i. 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:

- i. 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.

Ref. 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:                                                                                         | Optional (recommended)                           | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |
|                                    | <input type="checkbox"/> Population                                                              | <input type="checkbox"/> Timeframe for follow-up |                                                             |
|                                    | <input type="checkbox"/> Intervention                                                            |                                                  |                                                             |
|                                    | <input type="checkbox"/> Comparator group                                                        |                                                  |                                                             |
|                                    | <input type="checkbox"/> Outcome                                                                 |                                                  |                                                             |

|    |                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     |                                                             |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 2) | <b>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?</b> | <b>For Partial Yes:</b> The authors state that they had a written protocol or guide that included ALL the following:<br><input type="checkbox"/> review question(s)<br><input type="checkbox"/> search strategy<br><input type="checkbox"/> inclusion/exclusion criteria<br><input type="checkbox"/> risk of bias assessment                                                      | <b>For Yes:</b> As for partial yes, plus the protocol should be registered and should also have specified:<br><input type="checkbox"/> meta-analysis/synthesis plan, if appropriate, and<br><input type="checkbox"/> plan for investigating causes of heterogeneity<br><input type="checkbox"/> justification for any deviations from the protocol                                                                                 | <input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No |                                                             |
| 3) | <b>Did the review authors explain their selection of the study designs for inclusion in the review?</b>                                                                                                                | <b>For Yes,</b> the review should satisfy ONE of the following:<br><input type="checkbox"/> Explanation for including only RCTs; OR<br><input type="checkbox"/> Explanation for including only non-randomized studies of interventions (NRSI); OR<br><input type="checkbox"/> Explanation for including both RCTs and NRSI                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |
| 4) | <b>Did the review authors use a comprehensive literature search strategy?</b>                                                                                                                                          | <b>For Partial Yes</b> (all the following):<br><input type="checkbox"/> searched at least 2 databases (relevant to research question)<br><input type="checkbox"/> provided key word and/or search strategy<br><input type="checkbox"/> justified publication restrictions (e.g. language)                                                                                         | <b>For Yes,</b> should also have (all the following):<br><input type="checkbox"/> searched the reference lists / bibliographies of included studies<br><input type="checkbox"/> searched trial/study registries<br><input type="checkbox"/> included/consulted content experts in the field<br><input type="checkbox"/> where relevant, searched for grey literature conducted search within 24 months of completion of the review | <input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No |                                                             |
| 5) | <b>Did the review authors perform study selection in duplicate?</b>                                                                                                                                                    | <b>For Yes,</b> either ONE of the following:<br><input type="checkbox"/> at least 2 reviewers independently agreed on selection of eligible studies and achieved consensus on which studies to include; OR<br><input type="checkbox"/> 2 reviewers selected a sample of eligible studies and achieved good agreement (at least 80%), with the remainder selected by one reviewer. |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |
| 6) | <b>Did the review authors perform data extraction in duplicate?</b>                                                                                                                                                    | <b>For Yes,</b> either ONE of the following:<br><input type="checkbox"/> at least 2 reviewers achieved consensus on which data to extract from included studies; OR<br><input type="checkbox"/> 2 reviewers extracted data from a sample of eligible studies and achieved good agreement (at least 80%), with the remainder extracted by one reviewer.                            |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     | <input type="checkbox"/> Yes<br><input type="checkbox"/> No |
| 7) | <b>Did the review authors provide a list of excluded studies and justify the exclusions?</b>                                                                                                                           | <b>For Partial Yes:</b><br><input type="checkbox"/> provided a list of all potentially relevant studies that were read in full-text form but excluded from the review                                                                                                                                                                                                             | <b>For Yes, must also have:</b><br><input type="checkbox"/> Justified the exclusion from the review of each potentially relevant study                                                                                                                                                                                                                                                                                             | <input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No |                                                             |
| 8) | <b>Did the review authors describe the included studies in adequate detail?</b>                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                     |                                                             |

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| <b>For Partial Yes (ALL the following):</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> described populations</li> <li><input type="checkbox"/> described interventions</li> <li><input type="checkbox"/> described comparators</li> <li><input type="checkbox"/> described outcomes</li> <li><input type="checkbox"/> described research designs</li> </ul> | <b>For Yes, should also have ALL the following:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> described population in detail</li> <li><input type="checkbox"/> described intervention in detail (including doses where relevant)</li> <li><input type="checkbox"/> described comparator in detail (including doses where relevant)</li> <li><input type="checkbox"/> described study's setting timeframe for follow-up</li> </ul> | <input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

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| <b>9) Did the review authors use a satisfactory technique for assessing the risk of bias (RoB) in studies that were included in the review?</b>                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                        |
| <b>RCTs</b>                                                                                                                                                                                                                                                                                                                                     | <b>For Partial Yes, must have assessed RoB from:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> unconcealed allocation, and</li> <li><input type="checkbox"/> lack of blinding of patients and assessors when assessing outcomes (unnecessary for objective outcomes such as all-cause mortality)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 | <b>For Yes, must also have assessed RoB from:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> allocation sequence that was not truly random, and</li> <li><input type="checkbox"/> selection of the reported result from among multiple measurements or analyses of a specified outcome</li> </ul> |
| <b>NRSI</b>                                                                                                                                                                                                                                                                                                                                     | <b>For Partial Yes, must have assessed RoB:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> from confounding, and</li> <li><input type="checkbox"/> from selection bias</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>For Yes, must also have assessed RoB:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> methods used to ascertain exposures and outcomes, and</li> <li><input type="checkbox"/> selection of the reported result from among multiple measurements or analyses of a specified outcome</li> </ul>   |
| <input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> Includes only NRSI<br><input type="checkbox"/> Yes<br><input type="checkbox"/> Partial Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> Includes only RCTs                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                        |
| <b>10) Did the review authors report on the sources of funding for the studies included in the review?</b>                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                        |
| <b>For Yes:</b> Must have reported on the sources of funding for individual studies included in the review. Note: Reporting that the reviewers looked for this information, but it was not reported by study authors also qualifies                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No                                                                                                                                                                                                                                                            |
| <b>11) If meta-analysis was performed did the review authors use appropriate methods for statistical combination of results?</b>                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                        |
| <b>RCTs</b>                                                                                                                                                                                                                                                                                                                                     | <b>For Yes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> The authors justified combining the data in a meta-analysis; AND</li> <li><input type="checkbox"/> they used an appropriate weighted technique to combine study results and adjusted for heterogeneity if present; AND</li> <li><input type="checkbox"/> investigated the causes of any heterogeneity</li> </ul>                                                                                                                                                                                                                                                                                                                  | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> No meta-analysis conducted                                                                                                                                                                                                     |
| <b>NRSI</b>                                                                                                                                                                                                                                                                                                                                     | <b>For Yes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> The authors justified combining the data in a meta-analysis; AND</li> <li><input type="checkbox"/> they used an appropriate weighted technique to combine study results, adjusting for heterogeneity if present; AND</li> <li><input type="checkbox"/> they statistically combined effect estimates from NRSI that were adjusted for confounding, rather than combining raw data, or justified combining raw data when adjusted effect estimates were not available; AND</li> <li><input type="checkbox"/> they reported separate summary estimates for RCTs and NRSI separately when both were included in the review</li> </ul> | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> No meta-analysis conducted                                                                                                                                                                                                     |
| <b>12) If meta-analysis was performed, did the review authors assess the potential impact of RoB in individual studies on the results of the meta-analysis or other evidence synthesis?</b>                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                        |
| <b>For Yes:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> included only low risk of bias RCTs; OR</li> <li><input type="checkbox"/> if the pooled estimate was based on RCTs and/or NRSI at variable RoB, the authors performed analyses to investigate possible impact of RoB on summary estimates of effect.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Yes<br><input type="checkbox"/> No<br><input type="checkbox"/> No meta-analysis conducted                                                                                                                                                                                                     |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                   |
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| 13) | <p><b>Did the review authors account for RoB in individual studies when interpreting/ discussing the results of the review?</b></p> <p><b>For Yes:</b></p> <p><input type="checkbox"/> included only low risk of bias RCTs; OR</p> <p><input type="checkbox"/> if RCTs with moderate or high RoB or NRSI were included, the review provided a discussion of the likely impact of RoB on the results</p>                                                                                    | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>                                                            |
| 14) | <p><b>Did the review authors provide a satisfactory explanation for, and discussion of, any heterogeneity observed in the results of the review?</b></p> <p><b>For Yes:</b></p> <p><input type="checkbox"/> There was no significant heterogeneity in the results; OR</p> <p><input type="checkbox"/> 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</p> | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>                                                            |
| 15) | <p><b>If they performed quantitative synthesis did the review authors carry out an adequate investigation of publication bias (small study bias) and discuss its likely impact on the results of the review?</b></p> <p><b>For Yes:</b></p> <p><input type="checkbox"/> performed graphical or statistical tests for publication bias and discussed the likelihood and magnitude of impact of publication bias</p>                                                                         | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p><input type="checkbox"/> No meta-analysis conducted</p> |
| 16) | <p><b>Did the review authors report any potential sources of conflict of interest, including any funding they received for conducting the review?</b></p> <p><b>For Yes:</b></p> <p><input type="checkbox"/> The authors reported no competing interests OR</p> <p><input type="checkbox"/> The authors described their funding sources and how they managed potential conflicts of interest</p>                                                                                           | <p><input type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>                                                            |

## 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).**

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Selection Bias</b>   | <p><i>Systematic differences between groups in their baseline characteristics.</i></p> <p>Successful <b>randomization</b> prevents selection bias because <b>allocation concealment</b> 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.</p>                                                                                 |
| <b>Performance Bias</b> | <p><i>Systematic differences between groups in the care provided, or in exposure to factors other than the primary study intervention.</i></p> <p><b>Blinding study participants and healthcare providers</b> 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.</p> |
| <b>Detection Bias</b>   | <p><i>Systematic differences between groups in how study endpoints are assessed.</i></p> <p><b>Blinding study investigators</b> reduces the risk that knowledge of which intervention was received, rather than the intervention itself, affected measurement of study endpoints.</p>                                                                                                                                                                                                                                       |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Attrition Bias</b> | <p><i>Systematic differences between groups in study withdrawals, either by exclusion or attrition.</i></p> <p><b>Withdrawals</b> from the study lead to incomplete outcome data. <b>Exclusions</b> refer to situations in which participant data are omitted from analyses despite being available to investigators. <b>Attrition</b> refers to situations in which outcome data are not available (missed appointments or other protocol deviation, or early study discontinuation).</p> |
| <b>Reporting Bias</b> | The <i>selective reporting of pre-specified endpoints</i> based on the results found.                                                                                                                                                                                                                                                                                                                                                                                                      |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | <p>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 <b>selectively reported</b> while secondary endpoints which found statistically significant differences are over-emphasized.</p> |
| <b>Other Biases</b> | 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).**

| <b>SELECTION BIAS</b>                                                                                           |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Risk of Bias</b>                                                                                             | <b>LOW</b>                                                                                                                                                                                                                                                | <b>HIGH</b>                                                                                                                                                                                                            | <b>UNCLEAR</b>                                                                                                                     |
| Inadequate randomization                                                                                        | Sequence generated by: <ul style="list-style-type: none"> <li>• Computerized random number generator</li> <li>• Random number table</li> </ul>                                                                                                            | Sequence generated by: <ul style="list-style-type: none"> <li>• Date of birth</li> <li>• Admission date</li> <li>• Patient identifier number</li> <li>• Alternating numbers</li> </ul>                                 | Method of randomization not described in sufficient detail for definitive judgment                                                 |
| Inadequate allocation concealment                                                                               | Group allocation cannot be predicted because: <ul style="list-style-type: none"> <li>• Centrally allocated</li> <li>• Sequentially numbered drug containers of identical appearance</li> <li>• Sequentially numbered, opaque, sealed envelopes</li> </ul> | Group allocation may be predicted because: <ul style="list-style-type: none"> <li>• Open allocation</li> <li>• Drug containers may differ in appearance</li> <li>• Envelopes without appropriate safeguards</li> </ul> | Method of concealment not described in sufficient detail for definitive judgment                                                   |
| Unbalanced baseline characteristics<br><br>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, co-morbidities, medical/surg history, concurrent meds) |
| <b>PERFORMANCE BIAS</b>                                                                                         |                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                        |                                                                                                                                    |
| <b>Risk of Bias</b>                                                                                             | <b>LOW</b>                                                                                                                                                                                                                                                | <b>HIGH</b>                                                                                                                                                                                                            | <b>UNCLEAR</b>                                                                                                                     |

|                                                                 |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                              |                                                                                          |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Standard of care was not consistent across all groups or sites. | <ul style="list-style-type: none"> <li>Study participants could not identify study assignment because blinding was ensured and unlikely to be broken (ie, double-dummy design with matching descriptions)</li> <li>Protocol standardized across all sites and followed consistently</li> </ul> | <ul style="list-style-type: none"> <li>Open-label or incomplete blinding</li> <li>Observed differences in appearance, taste/smell or adverse effects between groups may have broken blinding</li> <li>Some sites had a different standard of care or varied from protocol which likely influenced effect estimate</li> </ul> | Blinding process not described or insufficient information to permit definitive judgment |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

#### DETECTION BIAS

| Risk of Bias | LOW | HIGH | UNCLEAR |
|--------------|-----|------|---------|
|--------------|-----|------|---------|

|                                            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                        |                                                                                          |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Investigators who analyzed data un-blinded | <ul style="list-style-type: none"> <li>Blinding of data assessors was ensured and unlikely broken</li> <li>No data blinding or incomplete blinding, but effect estimate unlikely influenced by clearly defined objective endpoints and large magnitude of difference between groups</li> </ul> | <ul style="list-style-type: none"> <li>No blinding or blinding potentially broken, which likely influenced effect estimates because of inconsistencies between efficacy endpoints or subjective endpoints not well defined.</li> </ul> | Blinding process not described or insufficient information to permit definitive judgment |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|

#### ATTRITION BIAS

| Risk of Bias | LOW | HIGH | UNCLEAR |
|--------------|-----|------|---------|
|--------------|-----|------|---------|

|                                |                                                                                                                                                    |                                                                                                                                                                                                      |                                                                                                       |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| High attrition or differential | <ul style="list-style-type: none"> <li>No missing data</li> <li>Reasons for missing outcome data unlikely to influence effect estimates</li> </ul> | <ul style="list-style-type: none"> <li>High withdrawal rate (eg, &gt;10% for short-term studies; &gt;20% for longer-term studies)</li> <li>Difference in attrition &gt;10% between groups</li> </ul> | Not described or insufficient reporting of attrition/exclusions post-randomization to permit judgment |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                       |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Missing data handled inappropriately | <ul style="list-style-type: none"> <li>Intention-to-treat analysis performed for superiority trials</li> <li>Intention-to-treat and per-protocol analyses performed and compared for non-inferiority trials</li> <li>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.)</li> <li>Reasons for missing outcome data unlikely to influence effect estimates</li> </ul> | <ul style="list-style-type: none"> <li>As-treated analyses performed with substantial departure from randomized number</li> <li>Per-protocol analyses or modified-intention-to-treat with substantial amount of missing data</li> <li>Potentially inappropriate imputation of missing data (eg, LOCF for chronic, deteriorating conditions like HF, COPD, or cancer, etc.)</li> </ul> | 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                               | <ul style="list-style-type: none"> <li>• Study protocol is available and was followed all pre-specified primary and secondary endpoints are reported</li> <li>• Study protocol is not available, but all endpoints are reported as pre-specified in the study methods</li> </ul> | <ul style="list-style-type: none"> <li>• Not all pre-specified primary and secondary endpoints reported</li> <li>• Primary endpoint(s) reported using measurements, analyses, or subsets of patients that were not pre-specified (eg, post-hoc analysis; protocol change without justification)</li> <li>• Primary endpoint(s) not pre-specified or statistical analyses not described in methods</li> <li>• Inappropriate over-emphasis of positive secondary endpoints in study with negative primary endpoint</li> </ul> | Insufficient information to make determination                                                                                                    |
| <b>OTHER BIASES</b>                                            |                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                   |
| <b>Risk of Bias</b>                                            | <b>LOW</b>                                                                                                                                                                                                                                                                       | <b>HIGH</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>UNCLEAR</b>                                                                                                                                    |
| Evidence of other biases not described in the categories above | <ul style="list-style-type: none"> <li>• Investigators and authors report no conflicts of interest or study sponsor was not involved in trial</li> </ul>                                                                                                                         | <ul style="list-style-type: none"> <li>• Conflicts of interest with investigators or authors based on funding source</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>• Conflicts of interest declarations or funding sources not reported</li> </ul>                            |
|                                                                | design, data analysis or publication <ul style="list-style-type: none"> <li>• No other potential sources of bias identified</li> </ul>                                                                                                                                           | <ul style="list-style-type: none"> <li>• Study sponsor is involved in trial design, data analysis, and publication of data</li> <li>• Interventions in run-in period may impact effect of interventions post-randomization</li> <li>• Recruitment bias in cluster-randomized trials</li> <li>• Early study termination based on positive results</li> <li>• Carry-over effects in cross-over trials</li> <li>• Protocol deviation based on interim results</li> </ul>                                                       | <ul style="list-style-type: none"> <li>• Insufficient information regarding other trial methodology and design to make a determination</li> </ul> |

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**

| PICOS Domain         | Conditions that Limit Applicability                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Patients</b>      | <ul style="list-style-type: none"> <li>• Narrow eligibility criteria and broad exclusion criteria</li> <li>• Significant differences between the demographic characteristics of the study population and the Oregon's populations of interest</li> <li>• Narrow or unrepresentative severities in stage of illness or comorbidities (eg, only mild or moderate severity of illness included)</li> <li>• Run-in period with high exclusion rate for non-adherence or adverse effects</li> <li>• Event rates in study much lower/higher than observed in Oregon's populations of interest</li> </ul> |
| <b>Interventions</b> | <ul style="list-style-type: none"> <li>• Dose, frequency of administration, formulation not reflective of clinical practice</li> <li>• Intensity/delivery of interventions not feasible for routine use in clinical practice</li> <li>• Concomitant interventions likely over- or underestimate effectiveness of therapy</li> </ul>                                                                                                                                                                                                                                                                |

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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Comparators</b> | <ul style="list-style-type: none"> <li>• Inadequate dose or frequency of administration of comparator</li> <li>• Use of inferior or substandard comparator relative to other alternatives</li> </ul>                                                                                                                                                |
| <b>Outcomes</b>    | <ul style="list-style-type: none"> <li>• Short-term or surrogate endpoints assessed</li> <li>• Instrument used to assess endpoints is difficult to use or impractical to implement in clinical practice</li> <li>• Composite endpoint used that mix outcomes of different significance</li> </ul>                                                   |
| <b>Settings</b>    | <ul style="list-style-type: none"> <li>• Standards of care in study setting differ markedly from clinical practice</li> <li>• Monitoring/visit frequency not feasible for routine use in clinical practice</li> <li>• Level of care provided from specialists does not reflect clinical practice where intervention is likely to be used</li> </ul> |

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](http://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                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROCESS DEVELOPMENT       |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |
| 1                         | Rate the guideline development methods.<br><b>SCORE:</b>                                                 | <ul style="list-style-type: none"> <li>• Appropriate stakeholders were involved in the development of the guideline.</li> <li>• The evidence-base was developed systematically.</li> <li>• Recommendations were consistent with the literature. Consideration of alternatives, health benefits, harms, risks, and costs were made.</li> </ul>                                                 |
| PRESENTATION STYLE        |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |
| 2                         | Rate the guideline presentation.<br><b>SCORE:</b>                                                        | <ul style="list-style-type: none"> <li>• The guideline was well organized.</li> <li>• The recommendations were easy to find.</li> </ul>                                                                                                                                                                                                                                                       |
| CLINICAL VALIDITY         |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |
| 3                         | Rate the guideline recommendations.<br><b>SCORE:</b>                                                     | <ul style="list-style-type: none"> <li>• The recommendations are clinically sound.</li> <li>• The recommendations are appropriate for the intended patients.</li> </ul>                                                                                                                                                                                                                       |
| COMPLETENESS OF REPORTING |                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                               |
| 4                         | Rate the completeness of reporting, editorial independence.<br><b>SCORE:</b>                             | <ul style="list-style-type: none"> <li>• The information is complete to inform decision-making.</li> <li>• The guideline development process is transparent and reproducible.</li> </ul>                                                                                                                                                                                                      |
| 5                         | The views of the funding body did not influence the content of the guideline.<br><b>SCORE:</b>           | <ul style="list-style-type: none"> <li>• The name of the funding body or source of funding is explicitly stated (or explicit statement of no funding)</li> <li>• There is a statement that the funding bodies did not influence the content of the guideline, or at least <i>how</i> the guideline development group addressed <i>potential</i> influence from the funding bodies.</li> </ul> |
| 6                         | Competing interests of guideline development group members were recorded and addressed.<br><b>SCORE:</b> | <ul style="list-style-type: none"> <li>• A description of the types of competing interests is considered.</li> <li>• Methods by which potential competing interests were sought.</li> <li>• Competing interests are described.</li> <li>• How the competing interests influenced the guideline process and development of recommendations is described.</li> </ul>                            |