

THE LMBP A-6 CYCLE:

Review and Evaluation Methods for Quality Improvement



Please click the next arrow below to continue



THE LMBP A-6 CYCLE: REVIEW AND EVALUATION METHODS FOR QUALITY IMPROVEMENT

WELCOME

This course is one of several trainings intended to:

- Increase awareness of Laboratory Medicine Best Practices (LMBP) A-6 systematic evidence review methods
- Increase knowledge about the application of evidence-based principles in laboratory medicine quality improvement projects

Target Audience

This training is for physicians, laboratory and nursing staff, and others who design, implement, support or approve laboratory medicine quality improvement (QI) projects.



The LMBP A-6 Cycle



CHAPTER 1: INTRODUCTION TO LMBP

APPLYING AN EVIDENCE-BASED APPROACH TO LABORATORY MEDICINE (CONT.)

Here are some examples of when to use an evidence-based approach for decision-making:

- [An administrative director wants to request a new technology](#)
- [A manager wants to change the mode of delivery of care](#)
- [A clinician asks which test should be requested for a diagnosis](#)



CHAPTER 2: LMBP SYSTEMATIC REVIEWS

TRADITIONAL VERSUS SYSTEMATIC

LMBP systematic reviews synthesizes all available, relevant evidence conforming to pre-specified inclusion criteria in order to address a research question. LMBP systematic reviews differ from traditional reviews in the following ways:

Traditional Review	LMBP Systematic Review
Many questions	Focused question(s)
Random search for evidence	Explicit, documented search strategy
No inclusion criteria	Explicit study inclusion criteria
No pooling of study results	May pool study results (meta-analysis)



CHAPTER 3: THE LMBP INITIATIVE

WHO IS INVOLVED?

An LMBP systematic review team consists of:

- **Systematic review coordinator:** manages and ensures completion of the review consistent with the LMBP A-6 method.
- **Review liaison:** assists with managing communications between staff, review team coordinator/review team, and the expert panel.
- **Data abstractor(s):** participates in review processes by screening evidence, abstracting data, and performing a quality appraisal.
- **Librarian:** participates by assisting with development of the literature search strategy.
- **Statistician:** participates by performing quantitative analyses and assisting with their presentation and interpretation.



CHAPTER 4: THE LMBP A-6 CYCLE — AN OVERVIEW

LMBP A-6 CYCLE STEP DEFINITIONS

Select each section of the cycle to learn definitions.

You must view all definitions to continue.



Analyze - Work - Microsoft Edge

https://courses.cdc.train.org/LMBP_Module_1/page9728.html

Analyze

Analyze is the fourth step of the A-6 cycle, where the review team aggregates the body of evidence through both qualitative and quantitative techniques for development of summary findings including identification of best practices and identification of gaps in the evidence base.

[Close window](#)

CHAPTER 5: THE LMBP A-6 CYCLE — ACQUIRE

WHERE TO ACQUIRE THE EVIDENCE

The search for evidence is comprehensive and includes the following sources:

- At least three databases including PubMed, The Cochrane Library, Web of Science®, and others
- [Professional guideline electronic databases](#) (e.g., AHRQ, CLSI, ISO, NACB)
- Manual search of relevant journals
- Conference proceedings and technical reports
- Reference lists of relevant published studies
- Interviews with SMEs
- Findings from unpublished studies and quality improvement studies



CHAPTER 5: THE LMBP A-6 CYCLE — AUDIT/ASSESS PRACTICE ASSESSMENT

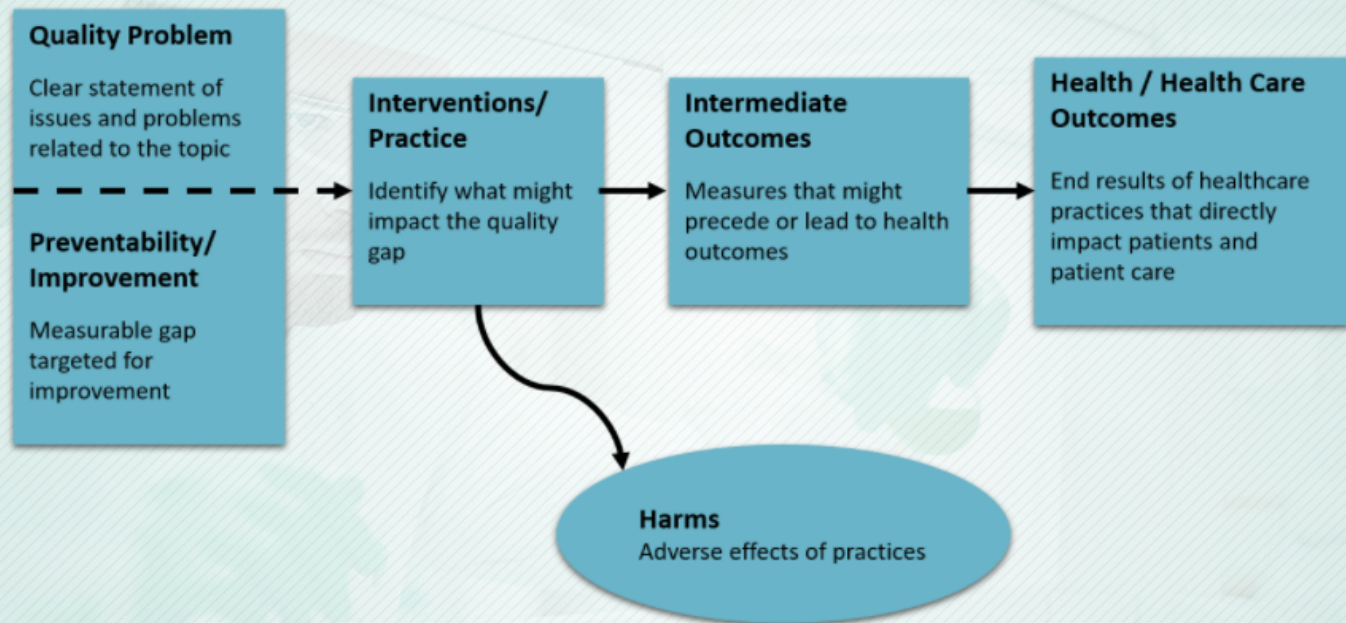
Some activities that may be applied during a practice assessment include the following:

- Measuring and monitoring targeted outcomes
- Conducting quality assurance activities
- Performing economic evaluations



CHAPTER 5: THE LMBP A-6 CYCLE STEPS — ASK

COMPONENTS OF THE ANALYTICAL FRAMEWORK



View [examples of analytical frameworks](#).





COMPLETION STATUS

ARE YOU READY TO TAKE THE FINAL EXAM?

You have successfully completed all chapters of this course.

- ✓ Chapter 1: Introduction to LMBP
- ✓ Chapter 2: LMBP Systematic Reviews
- ✓ Chapter 3: The LMBP Initiative
- ✓ Chapter 4: The LMBP A-6 Cycle - An Overview
- ✓ Chapter 5: The LMBP A-6 Cycle Steps

You may now exit the course and return to TRAIN to take the final exam.

Please remember to complete the course evaluation. We are very interested in your feedback and will use the aggregate information to improve future course offerings.



EXIT



Thank you!