

# Advanced Improvement Methods (AIM)



## What is AIM?

At Cincinnati Children's, The James M. Anderson Center for Health Systems Excellence is transforming the delivery of care through improvement science. Our [\*Advanced Improvement Methods \(AIM\)\*](#) is a highly interactive course for faculty from academic medical centers who lead improvement projects and already know the basics of quality improvement (QI) and clinical epidemiology and/or research methods. The course takes a deep dive into experimental approaches to improvement using factorial design and advanced control charts. AIM projects can be linked to grant proposal design, the analytic study of existing data, and will provide the skills necessary to successfully design, implement and study quality improvement initiatives within a clinical setting. We welcome participation from leaders in other health care systems.

## Course Benefits:

- Achieve process and outcome improvement results
- Enhance knowledge and skills to apply the science of improvement to the design, implementation and study of QI initiatives in clinical settings
- Apply improvement theory and methods to the leadership of projects involving research, clinical care and operations
- Connect with and learn from other course participants

## The Anderson Center

The Anderson Center is committed to graduating the next generation of leaders who will accelerate the transformation of health and has:

- Proven impact, with 88% of graduates achieving improvement results
- Developed over 1,300 improvement science leaders from within and beyond Cincinnati Children's
- Guided over 2,100 participants in team-based process improvement collaboratives
- Distinguished faculty with over 250 years of combined experience in improvement science who use evidence-based teaching and coaching practices
- Expert QI coaches and instructors who have made a commitment to bringing an equity focus to the courses with the aim of closing health disparity gaps

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*“Being an AIM student meant the world to me, and it has been transformational in my projects and in my career development.”*

**AIM Graduate**

# Advanced Improvement Methods (AIM) *continued*

## Who?

Physicians, nurses and nonclinical leaders at the director level or above who have a background in health services research, an active leadership role in quality improvement and a working knowledge of improvement science and/or biostatistics or clinical epidemiology.

## What?

AIM helps build a broader and deeper understanding of quality improvement, biostatistics and planned experimentation. Through brief didactic sessions, case studies and simulation exercises, participants will dive deep into quality improvement and statistics and apply their learnings to a QI project within their organization.

## How?

Expert faculty members lead the course in understanding the Model for Improvement, Shewhart's theory of variation, the theory and methods of planned experimentation and the practice of designing, running and analyzing experiments. Instructional methodologies include lecture, large and small group discussion, simulations and project presentations.

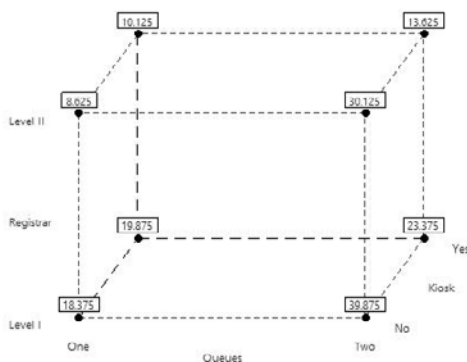
## When?

One cohort is offered per year.

## Continuing Education

Participants in this course may qualify for continuing education credit. For more information, contact [cme@cchmc.org](mailto:cme@cchmc.org).

**Example Factorial Design Cube Plot**  
Cube Plot (fitted means) for Wait Time (minutes)



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*I really appreciated the format of the course which included the perfect mixture of independent reading, instructor-led teaching, and practical application.”*

**AIM Graduate**

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For more information about AIM and how to apply, go to [cincinnatichildrens.org/research/divisions/j/anderson-center/education/aim](http://cincinnatichildrens.org/research/divisions/j/anderson-center/education/aim) or contact us at [AIM\\_Communications@cchmc.org](mailto:AIM_Communications@cchmc.org).