

American Thoracic Society & Turkish Thoracic Society

Methods in Epidemiologic, Clinical & Operations Research (MECOR)

Level 1 & 3 Course Syllabus

Antalya, Türkiye

December 7–11, 2026



ACKNOWLEDGMENTS

The American Thoracic Society is the primary sponsor of the 2026 MECOR Türkiye Course, held in Antalya, Türkiye.

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Ahmet Uğur Demir, Eylem Tunçay, and Sinem Güngör

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MECOR TÜRKİYE 2026

Level 1 & Level 3 Course Program | Antalya | December 7–11, 2026

Time	Level 1	Level 3
Monday, December 7, 2026		
08:30–09:30	General Welcome & Opening Ceremony <i>Faculty: Ahmet Uğur Demir; Eylem Tunçay; Sinem Güngör</i>	General Welcome & Opening Ceremony <i>Faculty: Ahmet Uğur Demir; Eylem Tunçay; Sinem Güngör</i>
09:30–10:00	Introductions; Welcome to Level 1; Course Overview & Expectations	Introductions; Welcome to Level 3; Course Overview & Expectations
10:00–10:30	Research Question Anatomy & FINER Criteria – Group Activity	Student Presentations: Level 2 Projects, MOP, or Work-in-Progress Summary
10:30–10:45	Coffee Break	Coffee Break
10:45–11:30	Literature Review	Student Presentations: Level 2 Projects, MOP, or Work-in-Progress Summary
11:30–12:00	What Is an MOP/Study Protocol and Why Do We Need One?	Student Presentations
12:00–13:30	Lunch	Lunch
13:30–14:30	Small-Group Activity: Refine Research Questions Using PICO/FINER; Literature Search and Slide Revision	Student Presentations: Level 2 Projects, MOP, or Work-in-Progress Summary
14:30–15:00	Small-Group Activity	Elements of a Manuscript: General Outline
15:00–15:30	Whole-Group Presentations: Revised Research Question and Justification	Elements of a Manuscript: Title & Abstract
15:30–16:15	Whole-Group Presentations	Introduction & Literature Review
16:15–17:30	Whole-Group Presentations	Individual or Small-Group Work
Tuesday, December 8, 2026		
08:30–09:30	Study Design and Identifying Key Variables	Check-in: Title, Abstract, and Introduction; Student Questions
09:30–10:30	Individual or Small-Group Work	Elements of a Manuscript: Methods & Flow Chart
10:30–11:00	Coffee Break	Coffee Break

Time	Level 1	Level 3
11:00–12:00	Mentor Work: Study Design and Operational Definitions of Exposures/Outcomes Using a 2×2 Table	Advanced Analysis: Logistic Regression
12:00–13:00	Lunch	Lunch
13:00–13:30	Confounding & Bias – Group Exercise	Advanced Analysis: Survival Analysis, and Cox Regression
13:30–14:15	P Values and Basic Statistical Tests	Individual or Small-Group Work
14:15–14:30	Coffee Break	Coffee Break
14:30–14:45	Mentor Work: Variables and Potential Confounders	Individual or Small-Group Work
14:45–15:30	Mentor Work	Manuscript Writing: Statistical Analysis
15:30–16:15	Small-Group Presentations: Operational Definitions and Potential Confounders	Manuscript Results, Tables, and Figures
16:15–17:30	Small-Group Presentations	Individual or Small-Group Work
Wednesday, December 9, 2026		
08:30–09:15	Selecting a Study Population: Sampling	Check-in: Students' Presentations and Manuscripts
09:15–10:15	Sample Size and Power – Group Exercise	Elements of a Manuscript: Discussion
10:15–10:30	Coffee Break	Coffee Break
10:30–11:00	Study Flow Diagram	Individual or Small-Group Work
11:00–11:30	Artificial Intelligence and Research	Individual or Small-Group Work
11:30–12:00	Mentor Work: Sampling, Sample Size, Power, and Data-Collection Tools	Individual or Small-Group Work
12:00–13:00	Lunch	Lunch
13:00–13:30	Mentor Work: Sampling, Sample Size, Power, and Data-Collection Tools	Individual or Small-Group Work
13:30–13:50	The Leadership Journey: Lessons, Challenges, and MECOR Success <i>Faculty: M. Patricia Rivera</i>	The Leadership Journey: Lessons, Challenges, and MECOR Success <i>Faculty: M. Patricia Rivera</i>
13:50–14:10	Celebrate Success	Celebrate Success
14:10–14:30	MECOR Official Course Photograph	MECOR Official Course Photograph
14:30–15:00	Whole-Group Presentations	Individual or Small-Group Work

Time	Level 1	Level 3
15:00–15:15	Coffee Break	Coffee Break
15:15–17:30	Whole-Group Presentations	Individual or Small-Group Work
Thursday, December 10, 2026		
08:30–09:30	Basic Descriptive Statistics: Incidence, Prevalence, and Measures of Association	Manuscript Check-in and Student Questions
09:30–10:00	Mentor Work: Data and Analysis Plans	Manuscript Check-in
10:00–10:30	Mentor Work	Journal Selection and Writing to Editors
10:30–10:45	Mentor Work	References
10:45–11:00	Coffee Break	Coffee Break
11:00–11:30	Independent/Mentor Work	Final Checks
11:30–12:00	Small-Group Presentations: Sampling, Flow Chart, Sample Size, Power, and Tools	Presentation Tips
12:00–13:30	Lunch	Lunch
13:30–14:15	Developing an Analysis Plan; Timeline and Budget	Individual or Small-Group Work
14:15–14:30	Coffee Break	Coffee Break
14:30–15:00	Ethics	Research Protocol Presentations
15:00–17:30	Final Presentation Rehearsals	Research Protocol Presentations
Time	Level 1	Level 3
Friday, December 11, 2026		
08:30–09:00	Rational Antibiotic Use	Rational Antibiotic Use
09:00–10:00	Final Presentations	Final Manuscript Presentations
10:00–10:15	Coffee Break	Coffee Break
10:15–12:00	Final Presentations	Final Manuscript Presentations
12:00–13:00	Graduation & Closing Ceremony <i>Ahmet Uğur Demir; Eylem Tunçay; Sinem Güngör</i>	Graduation & Closing Ceremony <i>Ahmet Uğur Demir; Eylem Tunçay; Sinem Güngör</i>

**Program details may be updated by the course coordinators.*

Level 1 Faculty	Level 3 Faculty
Eylem Tunçay	Ahmet Uğur Demir
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Hüseyin Arıkan	Zühal Karakurt
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