

# Epidemiological methods for studying the determinants of health 2025

7.5 credits, May 5th – June 6th

**\*Mandatory.** If you are unable to attend you need to inform the teacher and complement the session at a later time point, might be next year.

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KM= Karin Modig, MF= Maria Feychting, ES= Eva Skillgate, GT= Giorgio Tettamanti, EK=Eva Kampitsi,  
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Course week 1	Monday 5/5	Tuesday 6/5	Wednesday 7/5	Thursday 8/5	Friday 9/5
	<b>10:00-11:00</b> <b>*Roll call and registration</b> Welcome and introduction of individual assignment with examples <i>All teachers</i>  <b>11.00-12.00 Repetition of introductory epidemiology</b> <i>KM</i>  <b>KAROLINA</b>	<b>Cohort studies lecture 2</b> <b>Pre-recorded lecture</b> Measure and classification of disease and exposure Bias and confounding <i>KM</i>	<b>9:00-9:45</b> <b>Going through quiz 1+2, discussion of lecture, time for questions</b> <i>KM</i>  <b>KAROLINA</b>  <b>Group work scientific article</b> <b>*10.00-12</b> <i>(find your own group rooms)</i>	<b>Time for reading and working with the individual assignment</b>	<b>Time for reading and working with the individual assignment</b>
<b>12:00 – 13:00</b>					
	<b>Cohort studies lecture 1</b> <b>Pre-recorded lecture</b> Measures of disease occurrence, study base open and closed cohorts selection of study base, Induction time <i>KM</i>		<b>*Group work joint discussion 13-14</b> Discussion of article <i>SE, MB</i>  <b>KAROLINA</b>	<b>*Group work 13-16</b> Designing your own cohort study, group discussions <i>SE, MD, MB, KM</i>  <i>8 groups, find your own rooms</i> <i>Teachers will visit online</i>	<b>Time for reading and working with the individual assignment</b>

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Course week 2	Monday 12/5	Tuesday 13/5	Wednesday 14/5	Thursday 15/5	Friday 16/5
	<b>10-12 Cohort studies lecture 3</b>  Causality DAGs, Mediation analysis <i>KM, GT</i>  <b>KAROLINA</b>	<b>11:00-12:00 Guest Lecture</b>  <b>The placebo effect, what does it do to our studies of treatment effects?</b> Professor Karin Jensen  <b>KAROLINA</b>	<b>10-12 Quantitative bias analysis</b> <b>Lecture and workshop</b> <i>JL, MB, AH</i>  <b>SCHEELESALÉN</b>	Time for reading and working with the individual assignment	Time for reading and working with the individual assignment
<b>12:00 – 13:00</b>					
	<b>Lecture. Sensitivity, specificity, predictive value 13-15.00</b>  Effects of exposure classification, etiologic fraction, statistical power  <i>MF, KM</i>  <b>KAROLINA</b>	<b>Lecture intervention studies incl. Quiz 5 13-16</b> <i>ES</i>  <b>KAROLINA</b>	<b>*Group work 13-16</b> Designing your own cohort study continuation, group discussions. <i>KM, SE, MB, YS</i>  <b>203, 204, 206, 207, 209, 213, 220, 222</b>	Time for reading and working with the individual assignment	Time for reading and working with the individual assignment  At the latest 17.00, upload the first part of the individual assignment in Canvas

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Course week 3	Monday 19/5	Tuesday 20/5	Wednesday 21/5	Thursday 22/5	Friday 23/5
	<b>Case control studies lecture 1</b> <b>Pre-recorded lecture</b> Definition, selection of controls (based on incidence, cumulative incidence), different types of controls, stratified selection, matching, effects of matching, Precision <i>GT</i>	<b>9-10 Reading and preparing for seminar</b> <hr/> <b>10:00-10.45</b> <b>Going through quiz 6, discussion of lecture, time for questions</b> <i>GT</i>  <b>11:00-11.45</b> <b>Going through quiz 7, discussion of lecture, time for questions</b> <i>GT</i> <b>WANGARI</b>	<b>Cross-sectional studies lecture 9-12</b> Comparison with other study designs, analysis methods, reversed causality <i>EK</i>  <b>WANGARI</b>	<b>Time for reading and working with the individual assignment</b>	<b>Time for reading and working with the individual assignment</b>
<b>12:00 – 13:00</b>					
	<b>Case control studies lecture 2</b> <b>Pre-recorded lecture</b> Confounding, selection bias, misclassification of exposure, disease, and confounders <i>GT</i>	<b>*Group work 13-16 Case-control studies</b> Discussion of scientific article. Application of dags <i>GT, EK</i> <i>Find your own rooms</i>  <b>WANGARI, 15:00-16:00</b>	<b>*Group work 13-16 Cross-sectional studies</b> <i>EK, JL</i>  <b>WANGARI, 15:00-16:00</b>  Teachers upload comments on individual assignments latest at 16:00.	<b>13-14 Small group seminar</b> <b>Discussing individual assignment, one specific bias</b> <i>All teachers</i>  <b>Online</b>	<b>Time for reading and working with the individual assignment</b>

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Course week 4 Venue	Monday 26/5	Tuesday 27/5	Wednesday 28/5	Thursday 29/5	Friday 30/5
	Time for reading and working with the individual assignment	Time for reading and working with the individual assignment	Time for reading and working with the individual assignment	Public Holiday	Work with individual assignment Upload preliminary version of final individual assignment, no later than 13.00.
12:00 – 13:00					
	Stratified analysis Interaction and effect modification. 13-15 JL  KAROLINA	*Group work 13-16 Concept mapping SE, MB, EK, GT, MD, JL  205, 210, 220, 222, 224, 221,311, 326	Time for reading and working with the individual assignment		Prepare presentation and opposition

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Course week 5	Monday 2/6	Tuesday 3/6	Wednesday 4/6	Thursday 5/6	Friday 6/6
09:00 – 12:00	<b>*Individual assignment presentations, 9-12</b> KM, GT, MB, SE, MD, JL, EK, YS  200, 201, 218, 224	<b>*Individual assignment presentations, 9-12</b> KM, GT, MB, SE, MD, JL, EK, YS  200, 201, 218, 224	10:00-11:30 Teachers time KM, GT  WANGARI	Time to read for exam and revise individual assignment	
12:00 – 13:00					
13:00 – 16:00	<b>*Individual assignment presentations 13-16</b> KM, GT, MB, SE, MD, JL, EK, YS  200, 201, 218, 224	<b>*Individual assignment presentations, 13-16</b> KM, GT, MB, SE, MD, JL, EK, YS  200, 201, 218, 224	Time to read for exam and revise individual assignment	14.15-18.45 Exam  SKRIVSAL BZ	<b>Upload final individual assignment no later than 17.00.</b>  Teachers read and either pass, or provide feedback at the latest June 20th

Group Rooms: Retzius väg 13 A/B

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